# ROSEMEAD SCHOOL DISTRICT
# NEW RELOCATABLES AT:
## MILDRED B. JANSON ELEMENTARY SCHOOL
8628 MARSHALL ST. ROSEMEAD CA 91770

## GENERAL NOTES

1. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC SCALES SHOWN ON THE DRAWINGS. TYPICAL DETAILS & GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. IF ADDITIONAL DIMENSIONS ARE REQUIRED, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING. WORK WITHIN THE AREA OF DISCREPANCY OR CONFLICT SHALL NOT PROCEED UNTIL GIVEN SUCH NOTICE BY THE ARCHITECT TO RESUME CONSTRUCTION.

2. SPECIFIC NOTES & DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES & TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

3. THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS, SPECIFICATIONS & ADDENDA ADDRESSING ALL TRADES. FULLY COORDINATE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND/OR MECHANICAL DRAWINGS, DETAILS & SPECIFICATIONS TO ASCERTAIN THE FULL SCOPE OF THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FURNISH COMPLETE SET OF CONSTRUCTION DOCUMENTS TO ALL BIDDERS. ALL BIDDERS SHALL REVIEW THE FULL SET OF CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING BIDS FOR THE WORK. ANY INCONSISTENCIES OR CONFLICTING INFORMATION INCORPORATED INTO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATIONS AND/OR ADJUSTMENTS BEFORE COMMENCING WORK.

4. WHERE APPLICABLE, REFER TO THE PROJECT SPECIFICATION MANUAL FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS. INFORMATION GIVEN IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TO BE GIVEN IN ALL CONTRACT DOCUMENTS.

5. THE DRAWINGS & SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE(S) OR MODIFICATION TO AN EXISTING STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

   GENERAL:
   CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

   ADDENDA:
   CHANGES OR ALTERATIONS OF THE APPROVED PLANS OR SPECIFICATIONS PRIOR TO LETTING A CONSTRUCTION CONTRACT FOR THE WORK INVOLVED SHALL BE MADE BY MEANS OF ADDENDA WHICH SHALL BE SUBMITTED TO & APPROVED BY DSA PRIOR TO DISTRIBUTION TO CONTRACTORS. ORIGINAL COPIES OF ADDENDA SHALL BE STAMPED & SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF PREPARATION OF THE PLANS & SPECIFICATIONS & BY THE ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR THE PORTION AFFECTED BY THE ADDENDA. [SEE SECTION 4-317(h).] ONE COPY OF EACH ADDENDUM IS REQUIRED FOR THE FILES OF DSA.

   CONTRACT CHANGE DOCUMENT (CCD):
   CHANGES OR ALTERATIONS OF THE APPROVED PLANS OR SPECIFICATIONS AFTER A CONTRACT FOR THE WORK HAS BEEN LET SHALL BE MADE ONLY BY MEANS OF CCD SUBMITTED TO & APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON. CCDS SHALL STATE THE REASON OF THE CHANGE & THE SCOPE OF WORK TO BE ACCOMPLISHED, &, WHERE NECESSARY, SHALL BE ACCOMPANIED BY SUPPLEMENTARY DRAWINGS REFERENCED IN THE TEXT OF THE CCD. ALL CCDS & SUPPLEMENTARY DRAWINGS SHALL BE STAMPED & SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION OF THE PROJECT & BY THE ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR OBSERVATION OF THE PORTION OF THE WORK OF CONSTRUCTION AFFECTED BY THE CCD, SHALL BEAR THE APPROVAL OF THE DISTRICT & SHALL INDICATE THE ASSOCIATED CHANGE IN THE PROJECT COST, IF ANY. ONE COPY OF EACH CCD IS REQUIRED FOR THE FILES OF DSA.

   VOIDANCE OF APPLICATION:
   ANY CHANGE, ERASURE, ALTERATION, OR MODIFICATION OF ANY PLANS OR SPECIFICATIONS BEARING THE STAMP OF DSA MAY RESULT IN VOIDANCE OF THE APPROVAL OF THE APPLICATION. HOWEVER, THE WRITTEN APPROVAL OF PLANS MAY BE EXTENDED BY DSA TO INLCUDE REVISED PLANS & SPECIFICATIONS AFTER DOCUMENTS ARE SUBMITTED FOR REVIEW & APPROVED. (SEE SECTION 4-323 FOR REVISED PLANS & SECTION 4-338 FOR ADDENDA & CHANGE ORDERS.)

   PERFORMANCE OF THE WORK:
   THE CONTRACTOR SHALL CAREFULLY STUDY THE APPROVED PLANS & SPECIFICATIONS & SHALL PLAN A SCHEDULE OF OPERATIONS WELL AHEAD OF TIME. IF AT ANY TIME IT IS DISCOVERED THAT WORK IS BEING DONE WHICH IS NOT IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS, THE CONTRACTOR SHALL CORRECT THE WORK IMMEDIATELY. ALL INCONSISTENCIES OR ITEMS WHICH APPEAR IN ERROR IN THE PLANS & SPECIFICATIONS SHALL BE PROMPTLY CALLED TO THE ATTENTION OF THE ARCHITECT OR REGISTERED ENGINEER, THROUGH THE INSPECTOR, FOR INTERPRETATION OR CORRECTION. IN NO CASE, HOWEVER, SHALL THE INSTRUCTION OF THE ARCHITECT OR REGISTERED ENGINEER BE CONSTRUED TO CAUSE WORK TO BE DONE WHICH IS NOT IN CONFORMITY WITH THE APPROVED PLANS, SPECIFICATIONS, AND CHANGE ORDERS. THE CONTRACTOR MUST NOTIFY THE PROJECT INSPECTOR, IN ADVANCE, OF THE COMMENCEMENT OF CONSTRUCTION OF EACH AND EVERY ASPECT OF THE WORK. SUBSTITUTIONS SHALL BE CONSIDERED AS A CHANGE ORDER.

6. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS & SITE CONDITIONS BEFORE STARTING WORK. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW & CLARIFICATION OF THE ARCHITECT UNLESS NOTED AS (+/-) PLUS/MINUS OR (FIELD) VERIFY. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY BEFORE PROCEEDING WITH WORK.

7. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS REPRESENTING THE BEST INFORMATION CURRENTLY AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR & SUBCONTRACTOR SHALL CAREFULLY EXAMINE THE SITE, COMPARE THE CONSTRUCTION DOCUMENTS WITH THE EXISTING CONDITIONS, BE RESPONSIBLE FOR ACCURACY OF ALL DIMENSIONS & THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK. BY THE ACT OF SUBMITTING A BID THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, HAVE ACCEPTED THE CONDITIONS & HAVE INCLUDED ALL RELATED SITE/BUILDING(S) CONDITION COST IN HIS/HER BID.

8. NO PART OF THESE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS REQUIRING OR PERMITTING ANY WORK CONTRARY TO THE REQUIREMENTS OF ANY CODE REGULATION OR ORDINANCE WHICH HAS JURISDICTION OVER THE WORK.

9. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS ABBREVIATION OR SYMBOLS. IF THE CONTRACTOR HAS A QUESTION REGARDING THE SAME OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

10. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE(S) DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES & GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE & COMPONENTS, ADJACENT SOILS OR STRUCTURES, UTILITIES & RIGHT-OF-WAYS MAY BE SUBJECTED DURING CONSTRUCTION.

11. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR SHALL ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS & PROPERTY ACCORDING TO THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) & CALIFORNIA OCCUPATIONAL REGULATIONS [add other agencies]. THIS STIPULATION SHALL BE CONSIDERED TO BE CONTINUOUS & NOT LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL INDEMNIFY & HOLD DESIGN PROFESSIONALS, INSPECTORS, ET AL., HARMLESS FROM ANY & ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THIS CODE AND THE APPLICABLE PROVISIONS OF CHAPTER 33 OF CFC.

12. THE DESIGN TEAM SHALL NOT HAVE CONTROL OR CHARGE OF & SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK, THE ACTS OR OMISSIONS OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS.

13. CONTRACTOR SHALL PROVIDE CONSTRUCTION BARRICADES OR PROTECTIVE DEVICES OF SUFFICIENT HEIGHT & MAGNITUDE AS TO PREVENT ANY PERSONS OF ANY AGE FROM ACCIDENTALLY ENTERING THE WORK AREA. PROVIDE TEMPORARY PASSAGEWAYS AS REQUIRED. YELLOW TAPE BARRICADES SHALL NOT BE ALLOWED AT THESE SITES.

14. DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE & REMOVAL OF WASTE FROM THE SITE SHALL BE COORDINATED WITH THE DISTRICT FOR AN ACCEPTABLE ACCESS ROUTE & SCHEDULE. USE OF THE AREA OUTSIDE THE CONSTRUCTION ZONE SHALL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES WITHOUT CLEARANCE FROM THE SCHOOL DISTRICT OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

15. CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING & EARTHWORK OPERATIONS, AS MAY BE REQUIRED BY THE SCOPE OF THE WORK, FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SYSTEMS, UTILITIES OR FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.

16. IN DEMOLITION OF EXISTING BUILDINGS, WORK SHALL NOT BE PERFORMED IN AREA CONTAMINATED BY MATERIALS MADE OF ASBESTOS &/OR LEAD UNTIL THE ASBESTOS AND/OR LEAD MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED BY THE CONTRACTOR. IF ASBESTOS OR LEAD IS ENCOUNTERED, NOTIFICATION SHALL BE GIVEN PER SPECIFICATIONS.

17. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE SHOP DRAWINGS, PRODUCT LITERATURE, PRODUCT SAMPLES, ETC. ARE SUBMITTED TO THE ARCHITECT IN A TIMELY MANNER SO AS NOT TO IMPACT THE CONSTRUCTION SCHEDULE.

18. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.

19. CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS BEFORE PERFORMING THE WORK SHOWN ON THE CONSULTING ENGINEER'S DRAWINGS. DISCREPANCIES BETWEEN THE ARCHITECTURAL & CONSULTING ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION & DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE DISTRICT.

20. INSTALL ALL EQUIPMENT COMPLETELY AS REQUIRED AND/OR AS RECOMMENDED BY THE MANUFACTURER, INCLUDING ALL NECESSARY UTILITY CONNECTIONS, TO MAKE THE EQUIPMENT FULLY OPERATIONAL.

21. TRADE NAMES & MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTION WILL BE PERMITTED AS APPROVED BY THE SCHOOL DISTRICT OR ARCHITECT OF RECORD. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE & COMPLY WITH THE APPLICABLE CODES & REGULATIONS. SUBSTITUTIONS OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO THE DISTRICT.

22. ALL INSPECTION & TESTING SHALL CONFORM TO THE REQUIREMENTS OF PART 1 & 2, TITLE 24, C.C.R..

23. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COORDINATION OF THE VARIOUS TRADES PERFORMING THE WORK. CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPLETE COORDINATION SCHEDULE ILLUSTRATING THE EXTENT & THE POSITION OF EACH SCOPE OF WORK TO AVOID CONFLICT & TO MAINTAIN REQUIRED SERVICE ACCESS & CODE REQUIRED CLEARANCES.

24. THE DISTRICT MUST PROVIDE FOR & REQUIRE COMPETENT, ADEQUATE. & CONTINUOUS INSPECTION BY AN INSPECTOR SATISFACTORY TO THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION, TO ANY ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR A PORTION OF THE WORK, & TO DSA. THE COST OF THE PROJECT INSPECTION SHALL BE PAID FOR BY THE DISTRICT. AN INSPECTOR SHALL NOT HAVE ANY CURRENT EMPLOYMENT WITH ANY ENTITY THAT IS A CONTRACTING PARTY FOR THE CONSTRUCTION. AN APPROVED PROJECT INSPECTOR MAY BE REMOVED & REPLACED IF THE WORK PERFORMED IS NOT IN CONFORMANCE WITH ACCEPTED INSPECTION STANDARDS AS DETERMINED BY THE DISTRICT THE PROJECT ARCHITECT & ENGINEER WITH CONCURRENCE OF DSA. THE INSPECTOR SHALL HAVE PERSONAL KNOWLEDGE AS DEFINED IN SECTIONS 17309 & 81141 OF THE EDUCATION CODE OF ALL WORK DONE ON THE PROJECT OR ITS PARTS AS DEFINED IN SECTION 4-316 OF TITLE 24. NO WORK SHALL BE CARRIED ON EXCEPT UNDER THE INSPECTION OF A PROJECT INSPECTOR APPROVED BY DSA.THE EMPLOYMENT OF SPECIAL OR ASSISTANT INSPECTORS SHALL NOT BE CONSTRUED AS RELIEVING THE PROJECT INSPECTOR OF HIS/HER DUTIES & RESPONSIBILITIES UNDER SECTION 17309 & 81141 OF THE EDUCATION CODE AND SECTIONS 4-336 & 4342 OF TITLE24. A PROJECT INSPECTOR SHALL, UNDER THE DIRECTION OF THE ARCHITECTAND/OR ENGINEER, BE RESPONSIBLE FOR MONITORING THE WORK OF THE SPECIAL INSPECTORS AND TESTING LABORATORIES TO ENSURE THAT THE TESTING PROGRAM IS SATISFACTORILY COMPLETED. THE PROJECT INSPECTOR AND ANY ASSISTANT INSPECTOR MUST BE APPROVED BY DSA.

25. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CCD, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

26. CUTTING, BORING SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS IS NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED & APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER & THE DSA FIELD ENGINEER IF DETAILS DO NOT SHOW OR CONFORM TO THE APPROVED DRAWINGS.

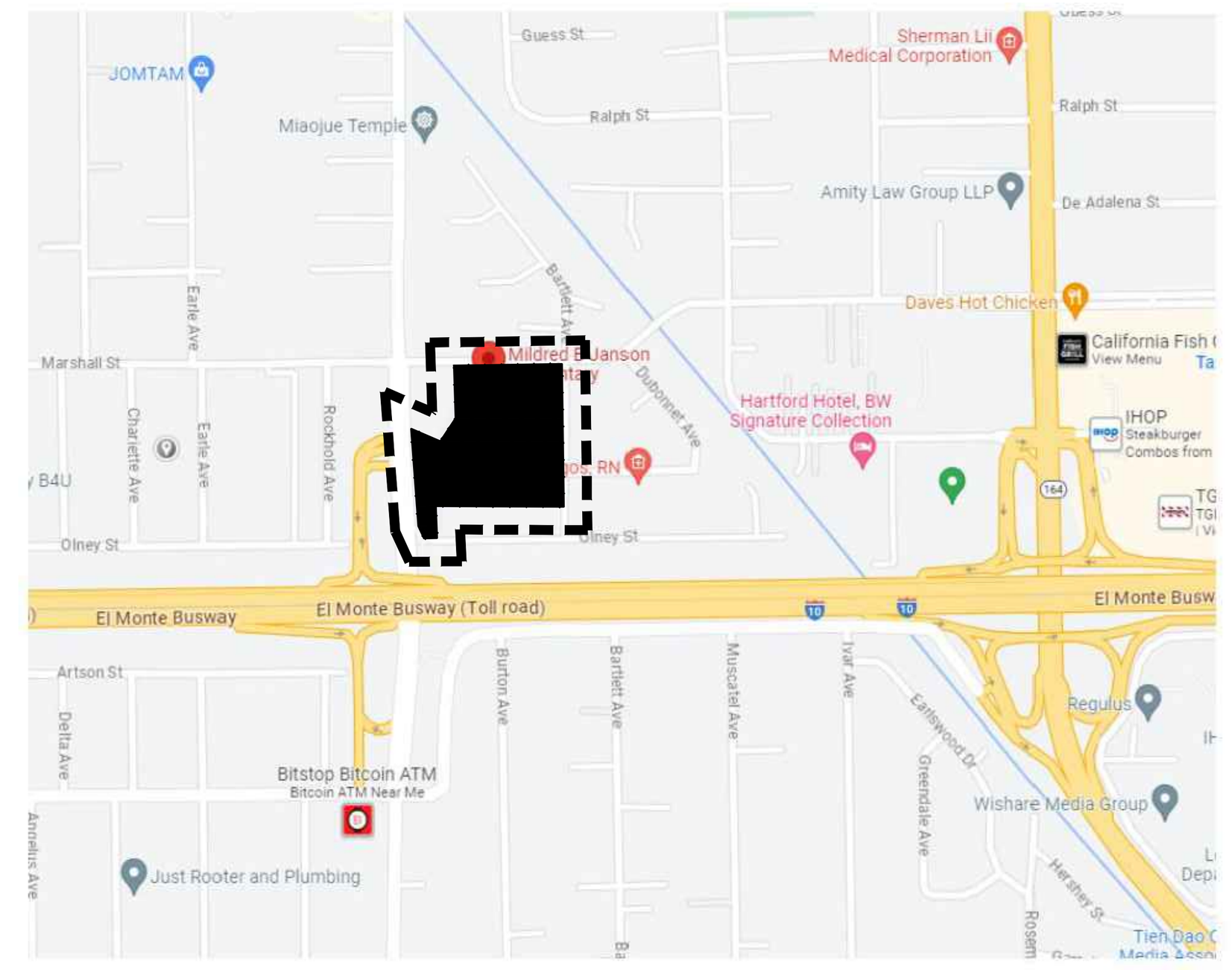
27. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT(OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 424, CCR).

28. A "DSA CERTIFIED" INSPECTOR WITH CLASS 4 & RBIP CERTIFICATION IS REQUIRED FOR THIS PROJECT.

29. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISH WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFERENCE SECTION 4-317 (c), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

30. IN-PLANT INSPECTOR INSPECTION CARD/VERIFIED REPORT DSA 152/IPI SHALL BE PROVIDED PRIOR TO INSTALLATION OF THE RELOCATABLES.

## VICINITY MAP JANSON E.S. SITE




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PROJECT SITE:
MILDRED B. JANSON ELEMENTARY SCHOOL

## APPLICABLE CODES

**PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2013**

**2022 BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.**
**2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.**
**(2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)**
**2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.**
**(2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)**
**2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.**
**(2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS, IAPMO)**
**2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.**
**(2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS, IAPMO)**
**2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.**
**PART 7 CURRENTLY VACANT**
**2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.**
**(2009 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)**
**2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.**
**(2021 INTERNATIONAL EXISTING BUILDING, WITH 2022 CALIFORNIA AMENDMENTS)**
**2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.**
**2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.**
**TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS**
**2010 ADA STANDARDS FOR ACCESSIBLE DESIGN**

**PARTIAL LIST OF APPLICABLE STANDARDS:**

**2022 CALIFORNIA BUILDING CODE (for SFM) REFERENCE STANDARDS CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.**

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|---|---|---|
| **NFPA 13** | **STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)** | **2022 EDITION** |
| **NFPA 14** | **STANDARD FOR THE INSTALLATION OF STANDPIPES SYSTEMS (CA AMENDED)** | **2019 EDITION** |
| **NFPA 17** | **STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS** | **2021 EDITION** |
| **NFPA 17A** | **STANDARD FOR WET CHEMICAL SYSTEMS** | **2021 EDITION** |
| **NFPA 72** | **NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED)** | **2022 EDITION** |
| **NFPA 80** | **STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES** | **2022 EDITION** |
| **NFPA 2001** | **STANDARD ON CLEAN AGENT FIRE EXTINGUISHER SYSTEMS (CA AMENDED)** | **2022 EDITION** |
| **UL 464** | **AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES** | **2003 EDITION** |
| **UL 521** | **STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS** | **2005 EDITION** |
| **UL 1971** | **STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED** | **2018 EDITION** |

## PROJECT CERTIFICATION REQUIREMENT

THIS PROJECT 03-123590 SHALL NOT RECEIVE CLOSED WITH CERTIFICATION UNTIL A-122693 IS CLOSED WITH CERTIFICATION DUE TO SITE ACCESSIBILITY CODE REQUIREMENTS. AND IN-CONSTRUCTION PROJECT A#03-123587 HAS BEEN CERTIFIED.

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| ~~72~~ | ~~A-1.07~~ | ~~TOILET BUILDING 24' x 40' PLUMBING PLAN~~ |
| ~~73~~ | ~~A-1.08~~ | ~~TOILET BUILDING 24' x 40' INTERIOR ELEVATIONS~~ |
| ~~74~~ | ~~A-2.01~~ | ~~REFLECTED CEILING PLAN - 24' x 40'~~ |
| ~~75~~ | ~~A-2.02~~ | ~~REFLECTED CEILING PLAN - 36' x 40'~~ |
| 76 | A-2.03* | REFLECTED CEILING PLAN - 48' TO 120' x 40' |
| 77 | A-2.03N* | REFLECTED CEILING PLAN - 48' TO 120' x 40' |
| 78 | A-2.20* | CEILING DETAILS - T - GRID |
| 79 | A-2.21* | CEILING DETAILS - HARD LID |
| ~~80~~ | ~~A-3.01~~ | ~~ROOF PLAN - 24' x 40' - METAL DECK - MONO OR DUAL SLOPE~~ |
| ~~81~~ | ~~A-3.02~~ | ~~ROOF PLAN - 36' x 40' - METAL DECK - MONO OR DUAL SLOPE~~ |
| 82 | A-3.03* | ROOF PLAN - 48' TO 120' x 40' - METAL DECK - MONO SLOPE |
| ~~83~~ | ~~A-3.04~~ | ~~ROOF PLAN - 48' TO 120' x 40' - METAL DECK - DUAL SLOPE~~ |
| ~~84~~ | ~~A-3.31~~ | ~~ROOF PLAN - 24' x 40' - PARAPET - MONO OR DUAL SLOPE~~ |
| ~~85~~ | ~~A-3.32~~ | ~~ROOF PLAN - 36' x 40' - PARAPET - MONO OR DUAL SLOPE~~ |
| 86 | A-3.33 | ROOF PLAN - 48' TO 120' x 40' - PARAPET - MONO SLOPE |
| ~~87~~ | ~~A-3.34~~ | ~~ROOF PLAN - 48' TO 120' x 40' - PARAPET - DUAL SLOPE~~ |
| ~~88~~ | ~~A-3.41~~ | ~~ROOF PLAN - 24' x 40' - TPO - MONO OR DUAL SLOPE~~ |
| ~~89~~ | ~~A-3.42~~ | ~~ROOF PLAN - 36' x 40' - TPO - MONO OR DUAL SLOPE~~ |
| 90 | A-3.43* | ROOF PLAN - 48' TO 120' x 40' - TPO - MONO SLOPE |
| ~~91~~ | ~~A-3.44~~ | ~~ROOF PLAN - 48' TO 120' x 40' - TPO - DUAL SLOPE~~ |

| NO. | SHT. NO. | SHEET TITLE |
|---|---|---|
| 92 | A-3.50* | ROOF DETAILS - STANDING SEAM ROOF DECK |
| 93 | A-3.80* | ROOF DETAILS - PARAPET |
| 94 | A-3.90* | ROOFING DETAILS - TPO ROOF |
| ~~95~~ | ~~A-4.01~~ | ~~EXTERIOR ELEVATIONS - 24' x 40' - MONO OR DUAL SLOPE~~ |
| ~~96~~ | ~~A-4.02~~ | ~~EXTERIOR ELEVATIONS - 36' x 40' - MONO SLOPE~~ |
| ~~97~~ | ~~A-4.03~~ | ~~EXTERIOR ELEVATIONS - 36' x 40' - DUAL SLOPE~~ |
| 98 | A-4.04* | EXTERIOR ELEVATIONS - 48' TO 120' x 40' - MONO SLOPE |
| ~~99~~ | ~~A-4.05~~ | ~~EXTERIOR ELEVATIONS - 48' TO 120' x 40' - DUAL SLOPE~~ |
| ~~100~~ | ~~A-4.21~~ | ~~EXTERIOR ELEVATIONS - 24' x 40' PARAPET - MONO OR DUAL SLOPE~~ |
| ~~101~~ | ~~A-4.22~~ | ~~EXTERIOR ELEVATIONS - 36' x 40' PARAPET - MONO OR DUAL SLOPE~~ |
| 102 | A-4.23* | EXTERIOR ELEVATIONS - 48' TO 120' x 40' PARAPET - MONO OR DUAL SLOPE |
| 103 | A-5.01* | CROSS SECT. - MONO SLOPE |
| ~~104~~ | ~~A-5.02~~ | ~~CROSS SECT. - DUAL SLOPE~~ |
| 105 | A-5.05* | CROSS SECTION |
| 106 | A-5.50* | ARCHITECTURAL DETAILS - WOOD STUD - SHTG |
| ~~107~~ | ~~A-5.51*~~ | ~~ARCHITECTURAL DETAILS - WOOD STUD - PLASTER~~ |
| 108 | A-5.52 | ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED |
| ~~109~~ | ~~A-5.53~~ | ~~ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED~~ |
| ~~110~~ | ~~A-5.60~~ | ~~ARCHITECTURAL DETAILS - STEEL STUD - SHTG~~ |
| ~~111~~ | ~~A-5.61~~ | ~~ARCHITECTURAL DETAILS - STEEL STUD - PLASTER~~ |
| ~~112~~ | ~~A-5.62~~ | ~~ARCHITECTURAL DETAILS - STEEL STUD - 1 HOUR RATED~~ |
| ~~113~~ | ~~A-5.63~~ | ~~ARCHITECTURAL DETAILS - STEEL STUD - PLASTER - 1 HOUR RATED~~ |
| 114 | A-5.64* | ARCHITECTURAL DETAILS - 1 HOUR RATED OPTIONS |
| 115 | A-5.70* | ARCHITECTURAL DETAILS - FLOOR |
| ~~116~~ | ~~A-5.71~~ | ~~DETERIORATION PROTECTION - NON-WD SIDING - CONC FLR - WD STUDS~~ |
| 117 | A-5.72* | DETERIORATION PROTECTION - STUCCO FINISH - CONC FLR - WD STUDS |
| ~~118~~ | ~~A-5.73~~ | ~~DETERIORATION PROTECTION - NON-WD SIDING - WD FLR - WD STUDS~~ |
| 119 | A-5.74* | DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - WD STUDS |
| ~~120~~ | ~~A-5.75~~ | ~~DETERIORATION PROTECTION - NON-WD SIDING - CONC FLR - STL STUDS~~ |
| ~~121~~ | ~~A-5.76~~ | ~~DETERIORATION PROTECTION - STUCCO FINISH - CONC FLR - STL STUDS~~ |
| ~~122~~ | ~~A-5.77~~ | ~~DETERIORATION PROTECTION - NON-WD SIDING - WD FLR - STL STUDS~~ |
| 123 | A-5.78* | DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - STL STUDS |
| 124 | A-5.80* | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS |
| 125 | A-5.81* | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS |
| ~~126~~ | ~~A-6.01~~ | ~~INTERIOR ELEVATIONS - 24' x 40'~~ |
| ~~127~~ | ~~A-6.02~~ | ~~INTERIOR ELEVATIONS - 36' x 40'~~ |
| 128 | A-6.03* | INTERIOR ELEVATIONS - 48' TO 120' x 40' |
| 129 | A-6.03N* | INTERIOR ELEVATIONS - 48' TO 120' x 40' |
| | | |
| | | FOUNDATION |
| ~~130~~ | ~~F-0.01~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (50 PSF)~~ |
| ~~131~~ | ~~F-0.02~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (50+15 PSF)~~ |
| ~~132~~ | ~~F-0.03~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (100 PSF)~~ |
| ~~133~~ | ~~F-0.04~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (150 PSF)~~ |
| ~~134~~ | ~~F-0.11~~ | ~~WOOD FOUNDATION PLAN - 36' x 40' (50 PSF)~~ |
| ~~135~~ | ~~F-0.12~~ | ~~WOOD FOUNDATION PLAN - 36' x 40' (50+15 PSF)~~ |
| ~~136~~ | ~~F-0.13~~ | ~~WOOD FOUNDATION PLAN - 36' x 40' (100 PSF)~~ |
| ~~137~~ | ~~F-0.14~~ | ~~WOOD FOUNDATION PLAN - 36' x 40' (150 PSF)~~ |
| ~~138~~ | ~~F-0.21~~ | ~~WOOD FOUNDATION PLAN - 48' x 40' (50 PSF)~~ |
| ~~139~~ | ~~F-0.22~~ | ~~WOOD FOUNDATION PLAN - 48' x 40' (50+15 PSF)~~ |
| ~~140~~ | ~~F-0.23~~ | ~~WOOD FOUNDATION PLAN - 48' x 40' (100 PSF)~~ |
| ~~141~~ | ~~F-0.24~~ | ~~WOOD FOUNDATION PLAN - 48' x 40' (150 PSF)~~ |
| ~~142~~ | ~~F-0.50~~ | ~~FOUNDATION DETAILS - WOOD~~ |
| ~~143~~ | ~~F-1.01~~ | ~~CONCRETE FOUNDATION PLAN - ABOVE GRADE - WOOD FLOOR~~ |
| ~~144~~ | ~~F-1.11~~ | ~~CONCRETE FOUNDATION PLAN - ABOVE GRADE - CONCRETE FLOOR~~ |
| ~~145~~ | ~~F-1.50~~ | ~~CONCRETE FOUNDATION DETAILS - ABOVE GRADE~~ |
| ~~146~~ | ~~F-2.01~~ | ~~CONCRETE FOUNDATION PLAN - BELOW GRADE - WOOD FLOOR~~ |
| 147 | F-2.11* | CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR |
| 148 | F-2.50* | CONCRETE FOUNDATION PLAN - BELOW GRADE |
| 149 | F-2.51* | FOUNDATION DETAILS - CONCRETE |
| | | |
| | | STRUCTURAL |
| 150 | S-0.1* | STRUCTURAL SPECIFICATIONS |
| ~~151~~ | ~~S-1.01~~ | ~~FLOOR FRAMING PLAN - WOOD FLOOR~~ |
| 152 | S-1.11* | FLOOR FRAMING PLAN - CONCRETE FLOOR |
| ~~153~~ | ~~S-1.50~~ | ~~FLOOR FRAMING DETAILS - WOOD FLOOR~~ |
| 154 | S-1.60* | FLOOR FRAMING DETAILS - CONCRETE FLOOR |
| 155 | S-2.01* | ROOF FRAMING PLAN - MONO SLOPE |
| 156 | S-2.03* | ROOF FRAMING PLAN - PARAPET - MONO SLOPE |
| ~~157~~ | ~~S-2.11~~ | ~~ROOF FRAMING PLAN - DUAL SLOPE~~ |
| ~~158~~ | ~~S-2.13~~ | ~~ROOF FRAMING PLAN - PARAPET - DUAL SLOPE~~ |
| 159 | S-2.50* | ROOF FRAMING DETAILS - MONO SLOPE |
| ~~160~~ | ~~S-2.51~~ | ~~ROOF FRAMING DETAILS - DUAL SLOPE~~ |
| 161 | S-2.60* | ROOF FRAMING DETAILS |
| 162 | S-2.70* | ROOF FRAMING DETAILS - PARAPET |
| 163 | S-2.90* | ROOF FRAMING DETAILS - TRUSS |
| 164 | S-3.01* | BUILDING SECTION - MONO SLOPE |
| ~~165~~ | ~~S-3.02~~ | ~~BUILDING SECTION - DUAL SLOPE~~ |
| 166 | S-5.00* | WALL FRAMING ELEVATIONS - WOOD STUDS |
| 167 | S-5.10* | WALL FRAMING DETAILS - WOOD STUDS |
| 168 | S-5.11* | WALL FRAMING DETAILS - WOOD STUDS |
| ~~169~~ | ~~S-5.20~~ | ~~WALL FRAMING ELEVATIONS - STEEL STUDS~~ |
| ~~170~~ | ~~S-5.30~~ | ~~WALL FRAMING DETAILS - STEEL STUDS~~ |
| ~~171~~ | ~~S-5.31~~ | ~~WALL FRAMING DETAILS - STEEL STUDS~~ |
| | | PLUMBING |
| 172 | P-1.01* | PLUMBING DETAILS AND SCHEDULE |
| | | |
| | | MECHANICAL |
| 173 | M-0.1* | MECHANICAL NOTES, SCHEDULES, AND DETAILS |
| ~~174~~ | ~~M-1.01~~ | ~~MECHANICAL PLAN - WALL MOUNT - 24' x 40'~~ |
| ~~175~~ | ~~M-1.02~~ | ~~MECHANICAL PLAN - WALL MOUNT - 36' x 40'~~ |
| 176 | M-1.03* | MECHANICAL PLAN - WALL MOUNT - 48' TO 120' x 40' |
| ~~177~~ | ~~M-2.01~~ | ~~MECHANICAL PLAN - ROOF MOUNT - 24' x 40'~~ |
| ~~178~~ | ~~M-2.02~~ | ~~MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'~~ |
| ~~179~~ | ~~M-3.01~~ | ~~MECHANICAL PLAN - ROOF MOUNT - 36' x 40'~~ |
| ~~180~~ | ~~M-3.02~~ | ~~MECHANICAL ROOF PLAN - ROOF MOUNT - 36x 40'~~ |
| 181 | M-4.01* | MECHANICAL PLAN - ROOF MOUNT - 48' TO 120' x 40' |
| 182 | M-4.02* | MECHANICAL ROOF PLAN - ROOF MOUNT - 48' TO 120' x 40' |
| | | |
| | | ELECTRICAL |
| ~~183~~ | ~~E-1.01~~ | ~~ELECTRICAL PLAN AND SCHEDULE - 24' x 40'~~ |
| ~~184~~ | ~~E-1.02~~ | ~~ELECTRICAL PLAN AND SCHEDULE - 36' x 40'~~ |
| 185 | E-1.03* | ELECTRICAL PLAN AND SCHEDULE - 48' TO 120' x 40' |
| | | |
| | | RAMP |
| ~~186~~ | ~~R-1.01~~ | ~~RAMP LANDING~~ |
| ~~187~~ | ~~R-1.02~~ | ~~OFFSET RAMP PLAN~~ |
| ~~188~~ | ~~R-1.03~~ | ~~RAMP LANDING~~ |
| ~~189~~ | ~~R-1.04~~ | ~~STANDARD LANDING WITH STEPS~~ |

| NO. | SHT. NO. | SHEET TITLE |
|---|---|---|
| ~~190~~ | ~~R-1.05~~ | ~~SWITCHBACK RAMP PLAN~~ |
| ~~191~~ | ~~R-2.01~~ | ~~RAMP DETAILS~~ |
| ~~192~~ | ~~R-3.01~~ | ~~STANDARD CONCRETE RAMP AND DETAILS~~ |
| | | |
| | | RELOCATABLE SHEETS |
| 193 | REL-102* | BUILDING RELOCATION DETAILS |
| 194 | REL-102* | BUILDING RELOCATION DETAILS |
| | | (PC #04-123501) FABRIC SHADE STRUCTURE (2) |
| 195 | T-1.0* | TITLE SHEET |
| 196 | T-2.0* | UNIT SELECTION |
| 197 | T-3.0* | T & I FORMS |
| 198 | 23.1-1000* | PRODUCT INFORMATION |
| 199 | 23.2-2000* | SPECIFICATIONS |
| 200 | 25.1-1000* | PRODUCT INFORMATION |
| 201 | 25.2-2000* | SPECIFICATIONS |
| | | |
| | | OVERALL TOTAL SHEETS: 201 |

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED ARCHITECT HELENA L. JUBANY 22214 REN. 5-31-27 STATE OF CALIFORNIA

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**STATEMENT OF GENERAL CONFORMANCE**

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (APPLICATION NO. A# 03-122194 FILE NO. 19-H16)

( APPLICATION NO. A# 03- 123590 FILE NO. 19-91

☒ THE DRAWINGS OR SHEETS ANNOTATED WITH AN ASTERISK ON THE SHEET INDEX ASSOCIATED WITH 03-123590 (1)
☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART 1 (TITLE 24, PART 1, SECTION 4-317 [b])

I FIND THAT: ☐ ELEVATOR GUIDERAILS, GLAZED ALUMINUM CURTAINWALLS. ☐ THIS DRAWING OR PAGE

| | |
|---|---|
| ☒ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND | ☐ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND |
| ☒ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS. | ☐ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS. |
| SIGNATURE [signature] DATE 09/18/2023 | SIGNATURE DATE |
| ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE | ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK |
| PRINT NAME: HELENA JUBANY | PRINT NAME |
| LICENSE NUMBER: C-22214 EXPIRATION DATE: 05/31/2025 | LICENSE NUMBER EXPIRATION DATE |

## GENERAL SYMBOLS

- 1 / A2.1 — DETAIL NUMBER; SHEET NUMBER
- 1 / A2.1 — WALL OR BUILDING SECTION NUMBER; SHEET NUMBER
- 1A / A5.1 — EXTERIOR ELEVATION; SHEET NUMBER DETAIL NUMBER
- 1A, 1B, 1C, 1D / 1 / A5.2 — INTERIOR ELEVATION; SHEET NUMBER
- (1) — DOOR NUMBER
- ⟨A⟩ — WINDOW TYPE
- [3] — NEW CONSTRUCTION KEYNOTE
- ◇2 — DEMOLITION KEYNOTE
- △3 — REVISION NUMBER
- INTERNATIONAL ACCESSIBILITY SYMBOL (I.S.A.)
- 14 ROOM NAME — ROOM IDENTIFICATION TAG
- (C) — COLUMN GRID REFERENCE
- LEVEL CHANGE
- LATH AND PLASTER
- GYPSUM BOARD; MOISTURE RESISTANT GYPSUM BOARD
- PLYWOOD
- INSULATION BATT; LOOSE FILL
- CONCRETE
- ℄ — CENTERLINE
- PL — PROPERTY LINE/ BOUNDARY LINE
- WORK ABOVE, BELOW, OR BEYOND; (E) WORK TO BE REMOVED; FUTURE WORK AS NOTED ON DWGS.
- TO BREAK CONTINUITY
- FINISH GRADE LINE, ELEVATION EARTH DIMENSION LINES
- CONTOUR LINE ON PLAN, SECTIONS OR ELEVATIONS
- MATCH LINE — MATCH LINE
- DIMENSION LINE
- 000.00' — SURFACE ELEVATION

## CODE ANALYSIS

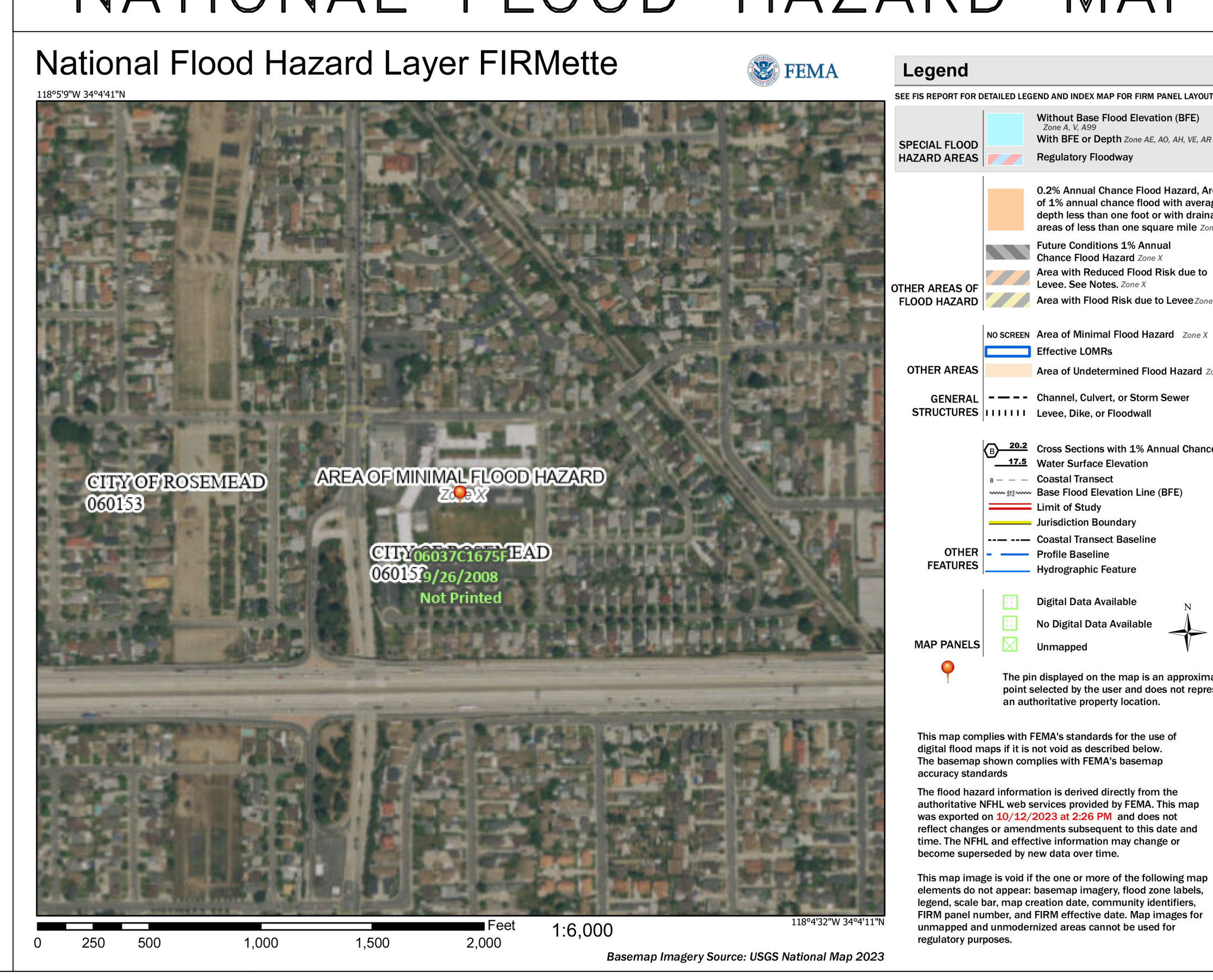
TYPE OF CONSTRUCTION: TYPE V-B NON SPRINKLERED
~~ALLOWABLE AREA = 9,500 S.F.~~ (2)
PROPOSED AREA = 960 S.F.
OCCUPANCY - E
OCCUPANT LOAD = 960 S.F. / (50 NET) = 19 OCCUPANTS

## SCOPE OF WORK

MILDRED B. JANSON ELEMENTARY SCHOOL: (1)
AREA OF SCOPE OF WORK: 8,366 SQ.FT. (2)

- CONSTRUCTION OF (1) 24' X 40' RELOCATABLE (PC#04-121999), RELATED ADA PATH OF TRAVEL SCOPE, ADA PARKING AND PASSENGER DROP-OFF. NEW ADA RESTROOM SIGNAGE AT EXISTING BUILDING 'D' DSA A# 03-107659 , 03-118778.
- NEW LANDSCAPE & OUTDOOR CLASSROOM WITH (2) SHADE STRUCTURES.

## NATIONAL FLOOD HAZARD MAP




MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

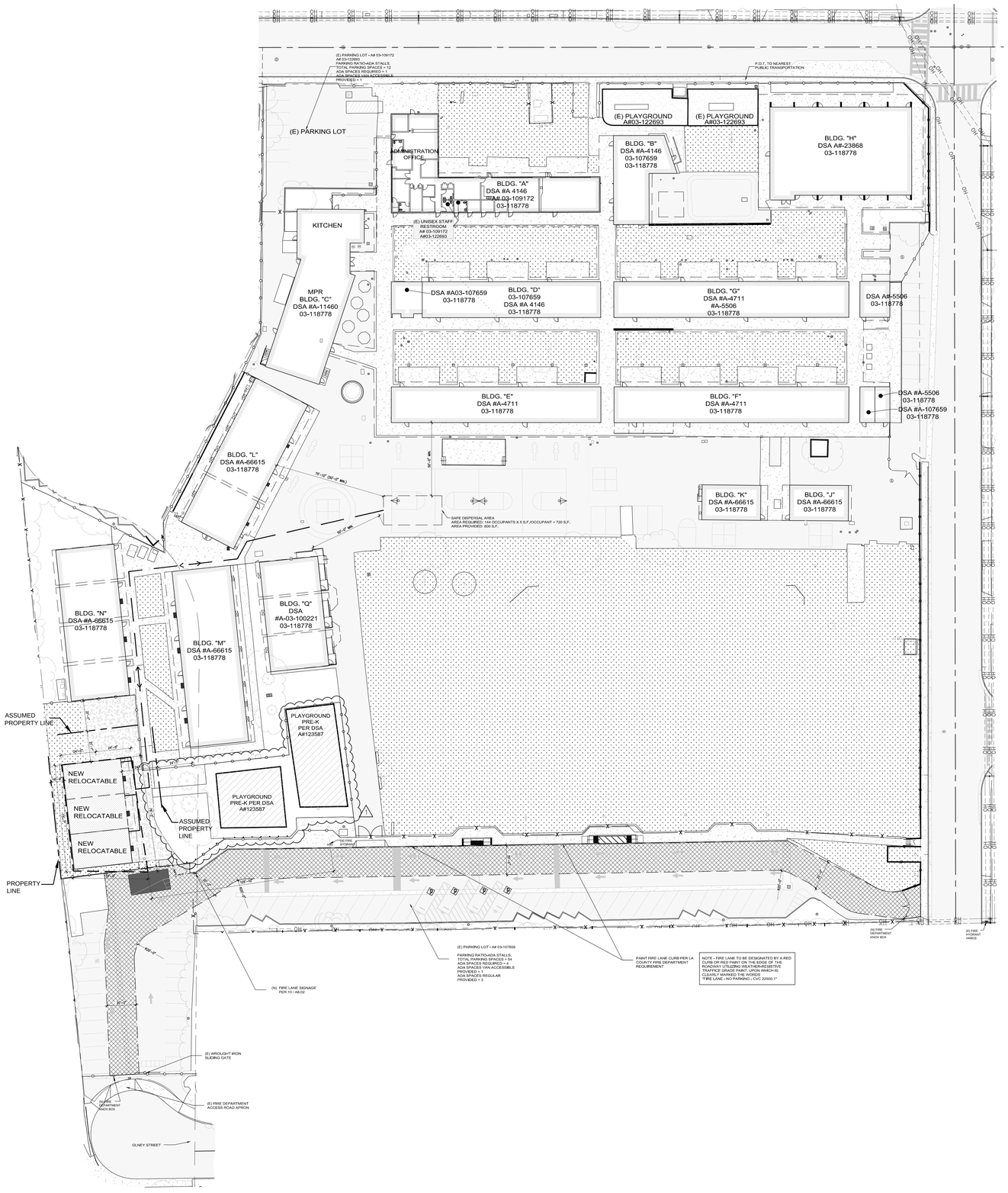
NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P:323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

TITLE SHEET, INDEX TO DRAWINGS AND NOTES

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**G0.1**
REVISED




1 FIRE ACCESS PLAN
SCALE: 1/32" = 1'-0"

N
PLAN NORTH

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/23/2026

FILE No.: 19-91 A#: 03-123590

## FIRE ACCESS PLAN - GENERAL NOTES

CFC 3310.1 REQUIRED ACCESS:
APPROVED VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED WITHIN 150 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.

CFC 3310.2 KNOX BOXES:
KNOX BOXES SHALL BE PROVIDED AS REQUIRED BY CHAPTER 5.

## FIRE DEPARTMENT ACCESS DURING CONSTRUCTION

CFC 3310.1 REQUIRED ACCESS:
THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS FOR FIRE TRUCKS TO WITHIN 150' OF THE PERIMETER OF THE NEW TENT STRUCTURE. DURING CONSTRUCTION. ACCESS SHALL BE PROVIDED STARTING NO LATER THAN THE COMPLETION OF EXCAVATION AND FOUNDATIONS, BUT PRIOR TO STOCKPILING COMBUSTIBLE MATERIAL ON SITE, AND SHALL BE MAINTAINED CONTINUOUSLY THROUGHOUT THE REMAINING DURATION OF CONSTRUCTION. FIRE TRUCK ACCESS SHALL BE VIA COMPACTED EARTH DRIVEWAYS MINIMUM TWENTY FEET WIDE WITHIN MINIMUM INSIDE TURING RADII OF TWENTY FEET. THESE DRIVEWAYS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR DURING CONSTRUCTION AND SHALL REMAIN CLEAR AND UNOBSTRUCTED AT ALL TIME.

## BUILDING CODE ANALYSIS

CONSTRUCTION OF 3 NEW 24X40 RELOCATABLES
CODE ANALYSIS:

TYPE OF CONSTRUCTION: TYPE V-B, NON-SPRINKLERED
ALLOWABLE AREA = 9,500 S.F.
PROPOSED AREA = 2,880 S.F. OK

HYDRANT FLOW REQUIREMENT FOR THE NEW RELOS PER CFC, APPENDIX BB, TABLE BB 105-1 = 1,500 GPM AT 20 PSI FOR A DURATION OF 2 HOURS.
HYDRANT FLOW PROVIDED AT NEW FH: 1,500 GPM AT 20 PSI FOR 2 HOURS

## FIRE DEPARTMENT NOTES

CFC 3310.1 REQUIRED ACCESS:

1. PROVIDE A MINIMUM UNOBSTRUCTED WIDTH OF 26 FEET AND A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE OF 13 FEET 6 INCHES. VEHICULAR ACCESS TO WITHIN MINIMUM 150 FEET OF ALL PORTION OF EXTERIOR WALLS.
   FIRE CODE 902.2.1.
2. THE REQUIRED FIRE FLOW FOR PUBLIC FIRE HYDRANTS AT THIS LOCATION IS 1,500 GALLONS PER MINUTE AT 20 PSI FOR THE DURATION OF 2 HOURS, OVER AN ABOVE MAXIMUM DAILY DOMESTIC DEMAND.
3. THE REQUIRED FIRE FLOW ON-SITE HYDRANTS IS 1,500 GALLONS PER MINUTE AT 20 PSI. EACH ON-SITE HYDRANTS MUST BE CAPABLE OF FLOWING 1,500 GALLONS PER MINUTE AT 20 PSI WITH ANY TWO HYDRANTS FLOWING SIMULTANEOUSLY.
4. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION. SEE NOTE ON THIS SHEET REGARDING FIRE DEPT. ACCESS DURING CONSTRUCTION.
5. COMMERCIAL DUMPSTERS OR CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN FIVE FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTERS ARE PROTECTED BY AN APPROVED SPRINKLER SYSTEM. FIRE CODE 1103.2.2.

## LEGEND

- (E) FIRE HYDRANT # 4061E
- NEW FIRE HYDRANT FLOW = 1,500 GPM @ 20 PSI FOR 2 HOURS. HYDRANT SHALL BE WETBARREL TYPE CONFORMING TO AWWA C503 OR UL246
- (E) FIRE APPARATUS ACCESS ROAD - UNOBSTRUCTED WIDTH OF 20 FT. MIN. AND UNOBSTRUCTED VERTICAL CLEARANCE " CLEAR TO SKY".
- FIRE APPARATUS
- (E) EXTERIOR LIGHT - 150 W BULB. PROVIDING A MINIMUM OF 1 FC AT FLOOR LEVEL FOR EXIT POT TO SAFE DISPERSAL AREA.
- EXIT DISCHARGE PATH OF TRAVEL TO DISPERSAL AREA
- NEW CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE

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| 1 | 05/09/2025 | REVISION 01 |
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LICENSED ARCHITECT REYENA LJUBANOVIC 22214 RENEWAL 5-31-27 STATE OF CALIFORNIA

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# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

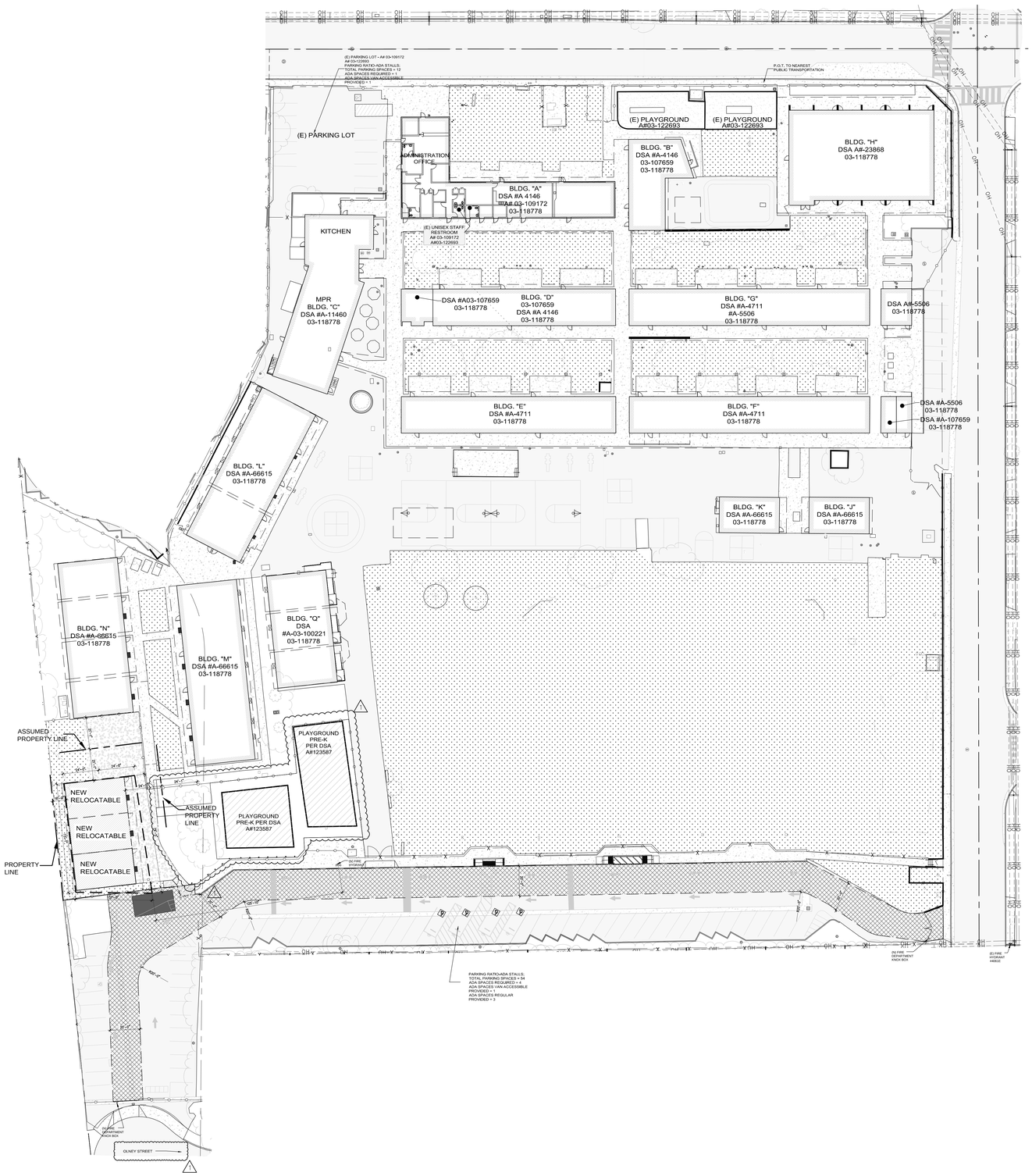
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| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

FIRE ACCESS PLAN

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1 FIRE ACCESS PLAN
SCALE: 1/32" = 1'-0"

N
PLAN NORTH

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/23/2026

FILE No.: 19-91 A#: 03-123590

## FIRE ACCESS PLAN - GENERAL NOTES

CFC 3310.1 REQUIRED ACCESS:
APPROVED VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED WITHIN 150 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.

CFC 3310.2 KNOX BOXES:
KNOX BOXES SHALL BE PROVIDED AS REQUIRED BY CHAPTER 5.

## FIRE DEPARTMENT ACCESS DURING CONSTRUCTION

CFC 3310.1 REQUIRED ACCESS:
THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS FOR FIRE TRUCKS TO WITHIN 150' OF THE PERIMETER OF THE NEW TENT STRUCTURE. DURING CONSTRUCTION. ACCESS SHALL BE PROVIDED STARTING NO LATER THAN THE COMPLETION OF EXCAVATION AND FOUNDATIONS, BUT PRIOR TO STOCKPILING COMBUSTIBLE MATERIAL ON SITE, AND SHALL BE MAINTAINED CONTINUOUSLY THROUGHOUT THE REMAINING DURATION OF CONSTRUCTION. FIRE TRUCK ACCESS SHALL BE VIA COMPACTED EARTH DRIVEWAYS MINIMUM TWENTY FEET WIDE WITHIN MINIMUM INSIDE TURING RADII OF TWENTY FEET. THESE DRIVEWAYS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR DURING CONSTRUCTION AND SHALL REMAIN CLEAR AND UNOBSTRUCTED AT ALL TIME.

## BUILDING CODE ANALYSIS

CONSTRUCTION OF 3 NEW 24X40 RELOCATABLES
CODE ANALYSIS:

TYPE OF CONSTRUCTION: TYPE V-B, NON-SPRINKLERED
ALLOWABLE AREA = 9,500 S.F.
PROPOSED AREA = 2,880 S.F. OK

HYDRANT FLOW REQUIREMENT FOR THE NEW RELOS PER CFC, APPENDIX BB, TABLE BB 105-1 = 1,500 GPM AT 20 PSI FOR A DURATION OF 2 HOURS.
HYDRANT FLOW PROVIDED AT NEW FH: 1,500 GPM AT 20 PSI FOR 2 HOURS

## FIRE DEPARTMENT NOTES

CFC 3310.1 REQUIRED ACCESS:

1. PROVIDE A MINIMUM UNOBSTRUCTED WIDTH OF 26 FEET AND A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE OF 13 FEET 6 INCHES. VEHICULAR ACCESS TO WITHIN MINIMUM 150 FEET OF ALL PORTION OF EXTERIOR WALLS.
   FIRE CODE 902.2.1.
2. THE REQUIRED FIRE FLOW FOR PUBLIC FIRE HYDRANTS AT THIS LOCATION IS 1,500 GALLONS PER MINUTE AT 20 PSI FOR THE DURATION OF 2 HOURS, OVER AN ABOVE MAXIMUM DAILY DOMESTIC DEMAND.
3. THE REQUIRED FIRE FLOW ON-SITE HYDRANTS IS 1,500 GALLONS PER MINUTE AT 20 PSI. EACH ON-SITE HYDRANTS MUST BE CAPABLE OF FLOWING 1,500 GALLONS PER MINUTE AT 20 PSI WITH ANY TWO HYDRANTS FLOWING SIMULTANEOUSLY.
4. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION. SEE NOTE ON THIS SHEET REGARDING FIRE DEPT. ACCESS DURING CONSTRUCTION.
5. COMMERCIAL DUMPSTERS OR CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN FIVE FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTERS ARE PROTECTED BY AN APPROVED SPRINKLER SYSTEM. FIRE CODE 1103.2.2.

## LEGEND

(E) FIRE HYDRANT # 4061E

NEW FIRE HYDRANT
FLOW = 1,500 GPM @ 20 PSI FOR 2 HOURS.
HYDRANT SHALL BE WETBARREL TYPE CONFORMING TO AWWA C503 OR UL246

(N) FIRE APPARATUS ACCESS ROAD - UNOBSTRUCTED WIDTH OF 20 FT. MIN. AND UNOBSTRUCTED VERTICAL CLEARANCE " CLEAR TO SKY". SEE CIVIL DRAWINGS FOR MORE INFORMATION

FIRE APPARATUS

NOTE:
CERTIFICATION OF PROJECT IS SUBJECT TO THE FIRE FLOW TEST RESULT OF NEW HYDRANT FLOW WITH MINIMUM 1500 GP, @ 20 PSI FOR 2 HOURS PER CFC TABLE BB105.1

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LICENSED ARCHITECT HELENA LJUBANOVIC 22214 RENEWAL 8-31-27 STATE OF CALIFORNIA

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# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
9628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
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ROSEMEAD, CA 91770

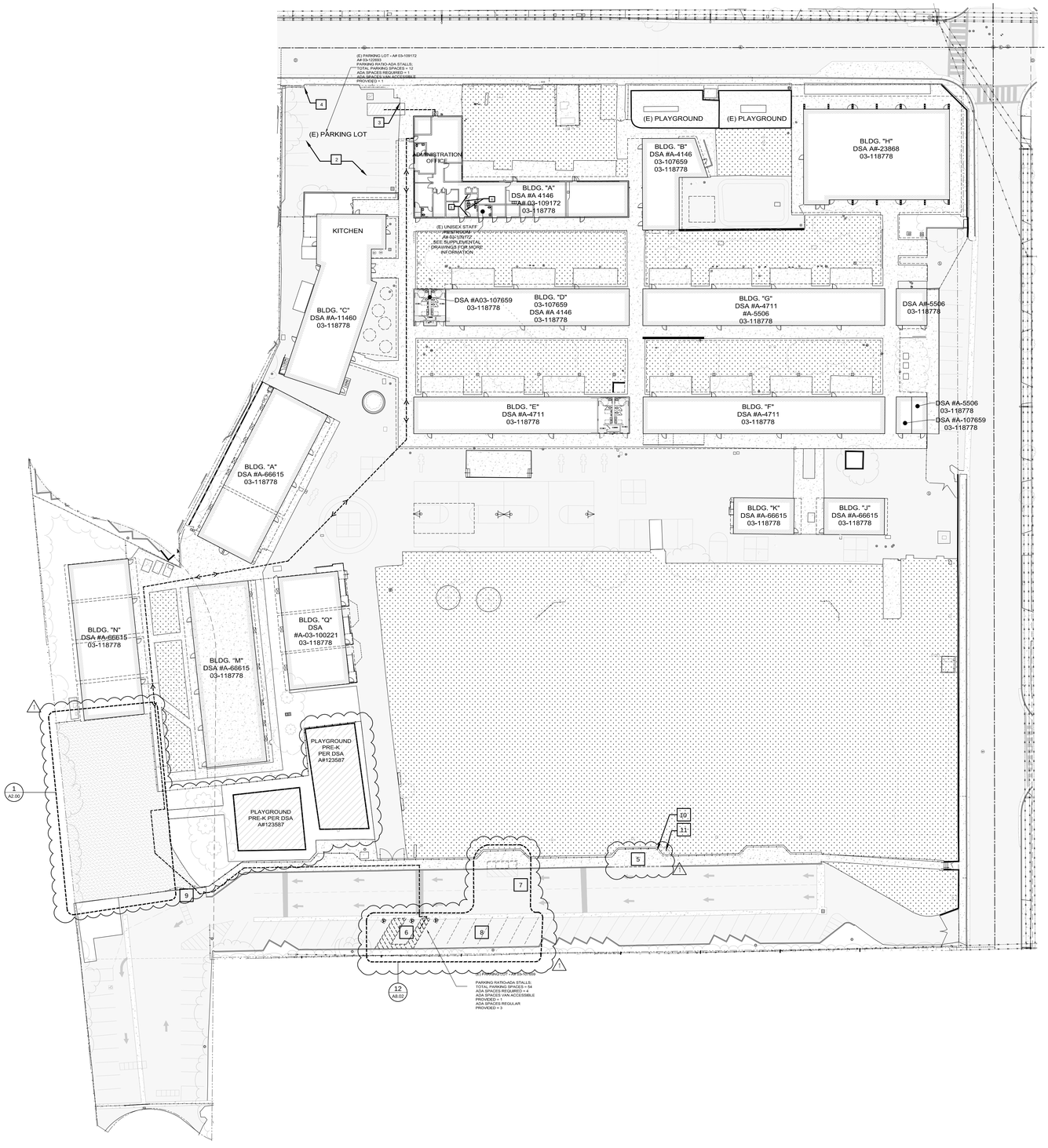
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| | |
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| DATE | 02/27/2027 |

FIRE ACCESS PLAN

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## JANSON RELOCATABLES

| BLDGS IN SCOPE | DSA A# | CERTIFICATION STATUS |
|---|---|---|
| BLDG A | 03-4146<br>03-109172<br>03-118778 | CERTIFIED<br>CERTIFIED<br>CERTIFIED |

## ACCESSIBILITY NOTES

1. SITE WALKWAYS SHALL PROVIDE A BARRIER FREE PATH OF TRAVEL FOR A PERSON IN A WHEELCHAIR.THE PATH OF TRAVEL SHALL BE A HARD, DURABLE AND SLIP RESISTANT ROUTE A MINIMUM OF 48 INCHES IN WIDTH (11B-403.5.1 EXCEPTION 3) AND WITH A MAXIMUM GRADIENT SLOPE OF 5% AND MAXIMUM CROSS-SLOPE OF 2% (11B-403.3) ABRUPT CHANGES IN LEVEL SHALL NOT EXCEED A BEVELED SLOPE OF 1:2 WITH A 1/2" IN VERTICAL HEIGHT AND 1/4" MAXIMUM IN VERTICAL DIFFERENTIAL LEVELS. CONCRETE FINISH SHALL BE STABLE, FIRM AND SLIP-RESISTANT (11B-302).

2. PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A COMMON BARRIER FREE EGRESS/ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH PASSING SPACES (11B-403.5.3) AT LEAST 60"X 60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%. (P.O.T.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). THAT THERE ARE NO BARRIERS IN THE P.O.T. ARCHITECT HAS VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

3. GATES IN THE PATH OF TRAVEL SHALL HAVE ACCESSIBLE HARDWARE AND KICK PLATES.

4. FOR ALL SITE GRADIENTS SEE CIVIL PLANS

## PATH OF TRAVEL STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BENN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION TRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

## LEGEND

- LANDSCAPE
- NEW RELOCATABLE SCOPE OF WORK
- ACCESSIBLE PATH OF TRAVEL (POT)
- EXISTING, TO BE DEMOLISHED

## KEYNOTES

1.0 NOT USED
2.0 NOT USED
3.0 NOT USED
4.0 NOT USED
5.0 DEMOLISH PORTION OF EXISTING CURB FOR NEW ENLARGED DROP-OFF AND LOADING AREA ACCESS AISLE
6.0 RELOCATE ACCESSIBLE PARKING
7.0 DEMOLISH EXISTING RAMP.
8.0 PORTION OF EXISTING PARKING TO BE RESTRIPED.
9.0 PORTION OF EXISTING CHAIN-LINK FENCE TO BE ALTERED FOR NEW ENTRY ACCESS.
10.0 DEMOLISH EXISTING PORTION ON CHAIN LINK FENCE FOR NEW PASSENGER DROP OFF.
11.0 REMOVE EXISTING LANDSCAPE FOR NEW PASSENGER DROP-OFF. CAP IRRIGATION LINES AT THIS AREA.

1 SITE PLAN - DEMOLITION
SCALE: 1/32" = 1'-0"

N
PLAN NORTH

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/23/2026

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
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| 1 | 05/09/2025 | REVISION 01 |
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LICENSED ARCHITECT HELENA LJUBANOVIC 22214 5-31-27 STATE OF CALIFORNIA

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# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
9620 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

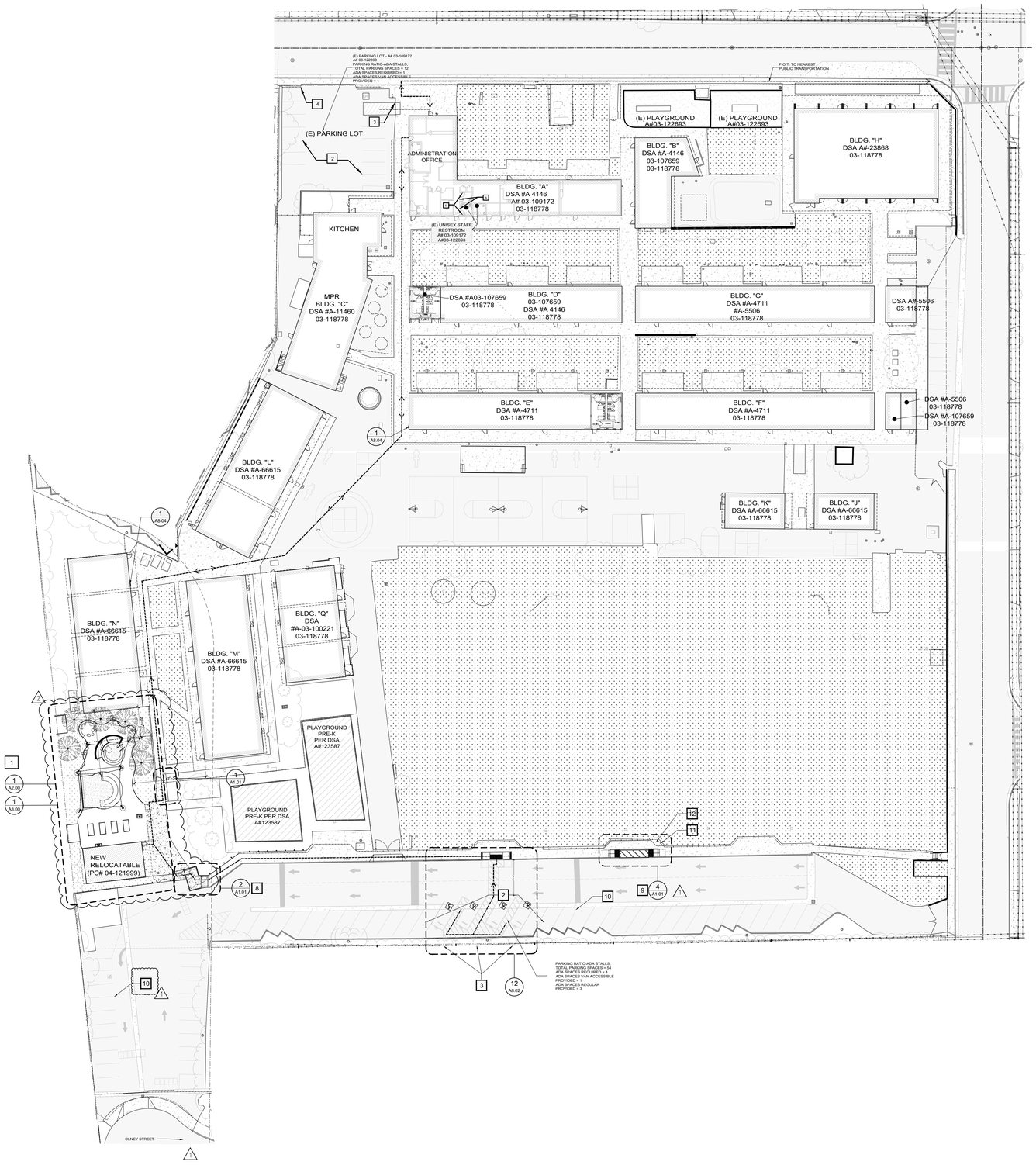
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|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

SITE PLAN - DEMOLITION

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1 SITE PLAN
SCALE: 1/32" = 1'-0"

N
PLAN NORTH

## JANSON RELOCATABLES

| BLDGS IN SCOPE | DSA A# | CERTIFICATION STATUS |
|---|---|---|
| BLDG A | 03-4146<br>03-109172<br>03-118778 | CERTIFIED<br>CERTIFIED<br>CERTIFIED |

## ACCESSIBILITY NOTES

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## PATH OF TRAVEL STATEMENT

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## LEGEND

- LANDSCAPE
- NEW RELOCATABLE SCOPE OF WORK
- ACCESSIBLE PATH OF TRAVEL (POT) PER A# 03-122693 IN CERTIFICATION PHASE AND A# 03-107659 CENTRIFIED

## KEYNOTES

1. NEW (3) 24' X 40' RELOCATABLES
2. PROVIDE NEW STRIPING AT EXISTING PARKING LOT AT EXISTING STRIPING LOCATIONS. (IN ADDITION TO THE NEW ADA STRIPING)
3. (E) ACCESSIBLE PARKING SIGNS PER A#03-122693
4. (E) TOW AWAY SIGN ON (E) POLE PER A#03-122693
5. (E) ACCESSIBLE RESTROOM DOOR SIGN. PER A#03-122693
6. (E) ACCESSIBLE RESTROOM AND WALL SIGNAGE PER A#03-122693
7. PROVIDE ACCESSIBLE DROP-OFF AND LOADING AREA ACCESS AISLE
8. PROVIDE NEW CHAIN-LINK FENCE ENTRY-WAY
9. PROVIDE ENLARGED DROP-OFF AND LOADING AREA ACCESS AISLE
10. RESEAL AND RESTRIPE ENTIRE PARKING LOT
11. NEW CHAIN LINK FENCE FOR NEW PASSENGER DROP OFF
12. NEW CONCRETE FINISH. RECONNECT EXISTING IRRIGATION LINES AT THIS CORNER

FILE No.: 19-91 A#: 03-123590

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| 2 | 01/30/2026 | REVISION 02 |
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# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

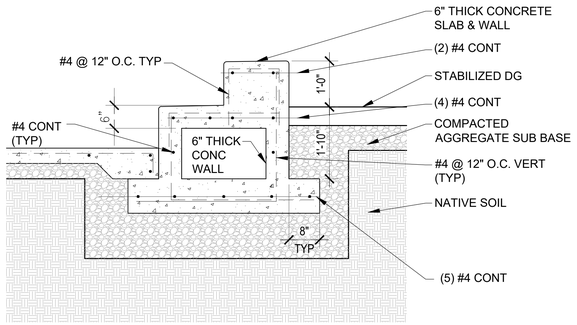
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|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

SITE PLAN

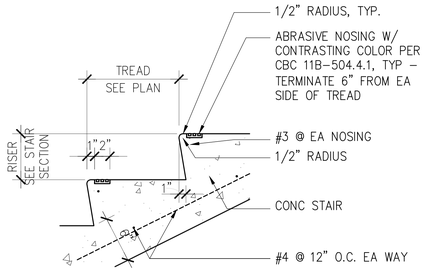
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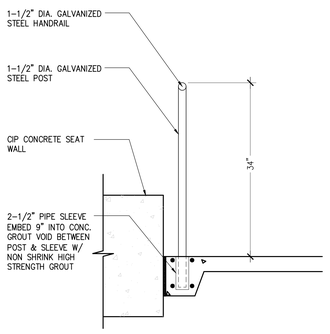

## 8 SUNKEN SEATING SECTION

SCALE: 3/4" = 1'-0"



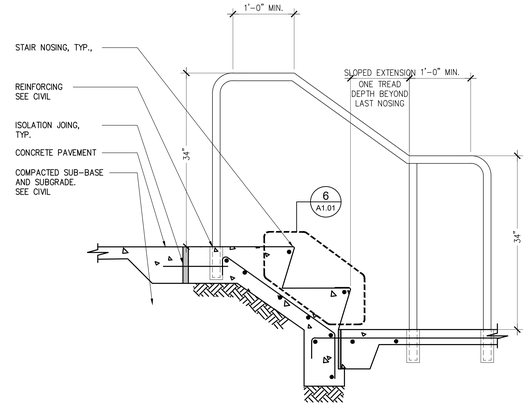

## 6 TYP CONC STAIR

SCALE: 1- 1/2" = 1'-0"



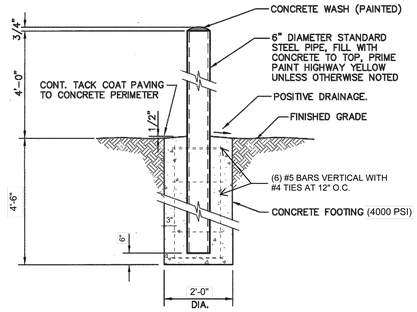

## 7 HANDRAIL @ OUTDOOR CLASSROOM - SECTION

SCALE: 1" = 1'-0"



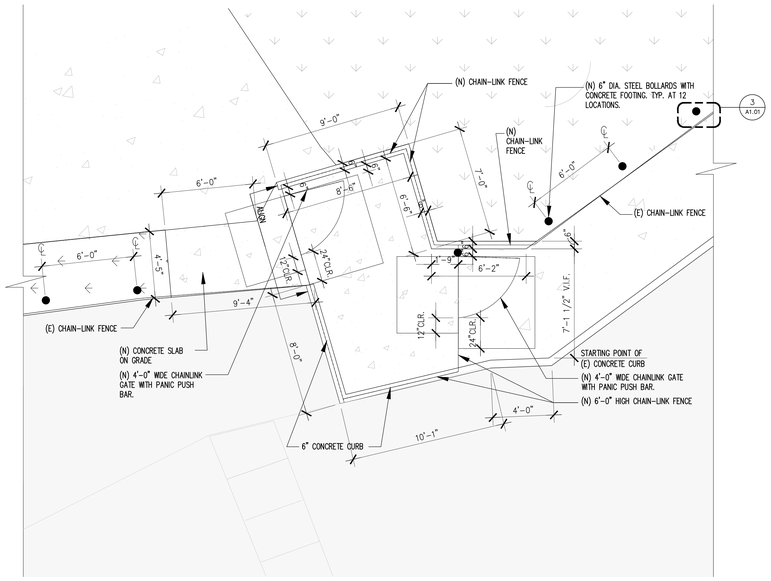

## 5 STAIRS @ OUTDOOR CLASSROOM - SECTION

SCALE: 1" = 1'-0"




## 3 STEEL PIPE GUARD DETAIL

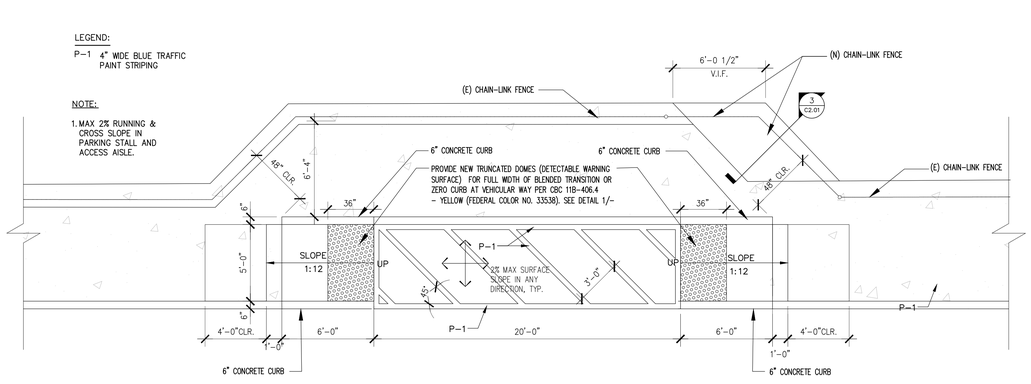
SCALE: NTS




## 2 ENLARGED ACCESS ENTRY-WAY

SCALE: 1/4" = 1'-0"

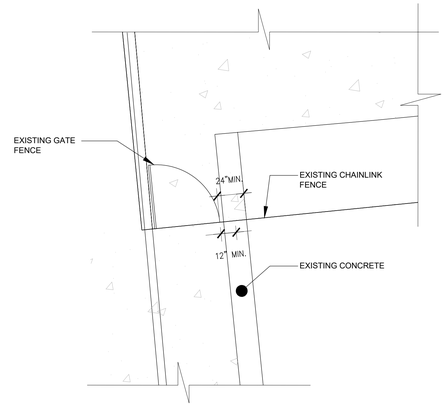
N PLAN NORTH




## 4 ENLARGED DROP-OFF AND LOADING AREA ACCESS AISLE

SCALE: 1/4" = 1'-0"

N PLAN NORTH




## 1 EXISTING WROUGHT IRON GATE ENLARGED PLAN

NOT TO SCALE

N PLAN NORTH

FILE No.: 19-91 A#: 03-123590

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LICENSED ARCHITECT HELENA L. JUBANY 22214 REN. 5-31-27 STATE OF CALIFORNIA

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# MILDRED B. JANSON ELEMENTARY SCHOOL NEW RELOCATABLES

8628 MARSHALL ST. ROSEMEAD, CA 91770

BOARD OF SCHOOL TRUSTEES

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

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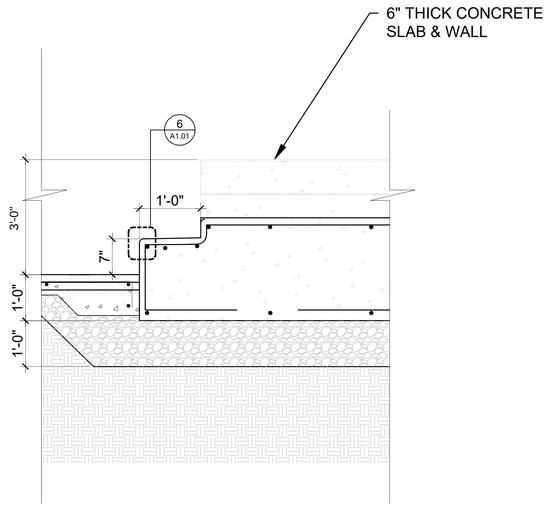
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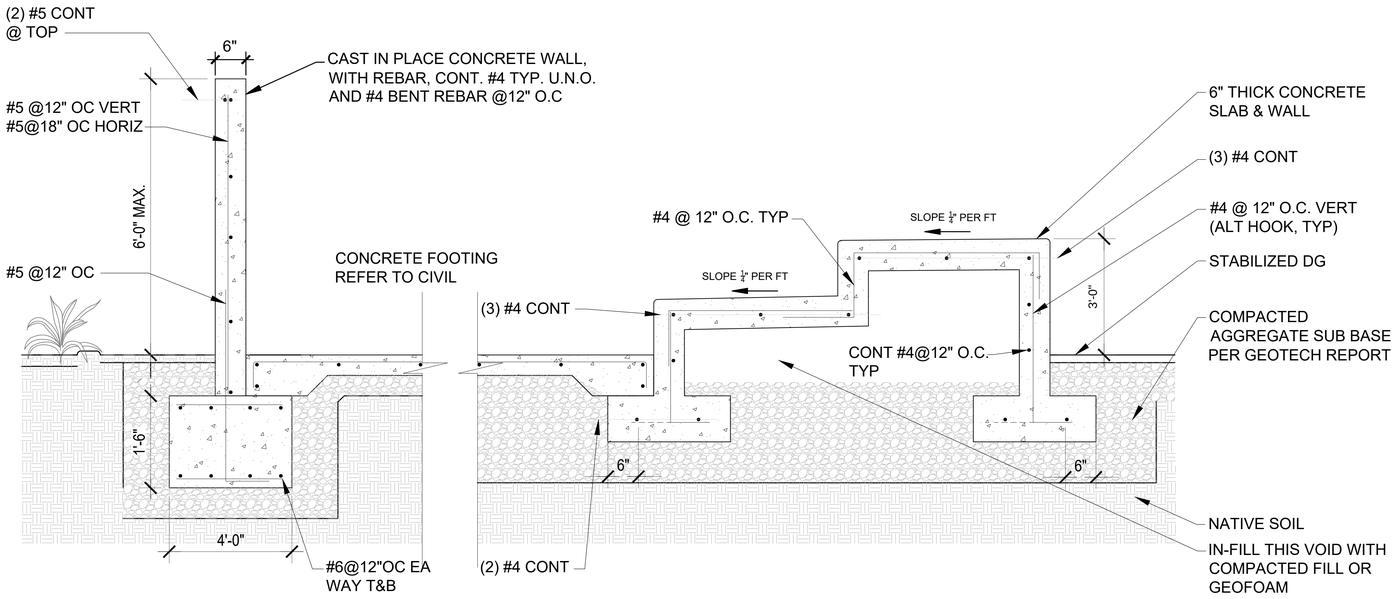
SITE DETAILS

**A1.01**

REVISED

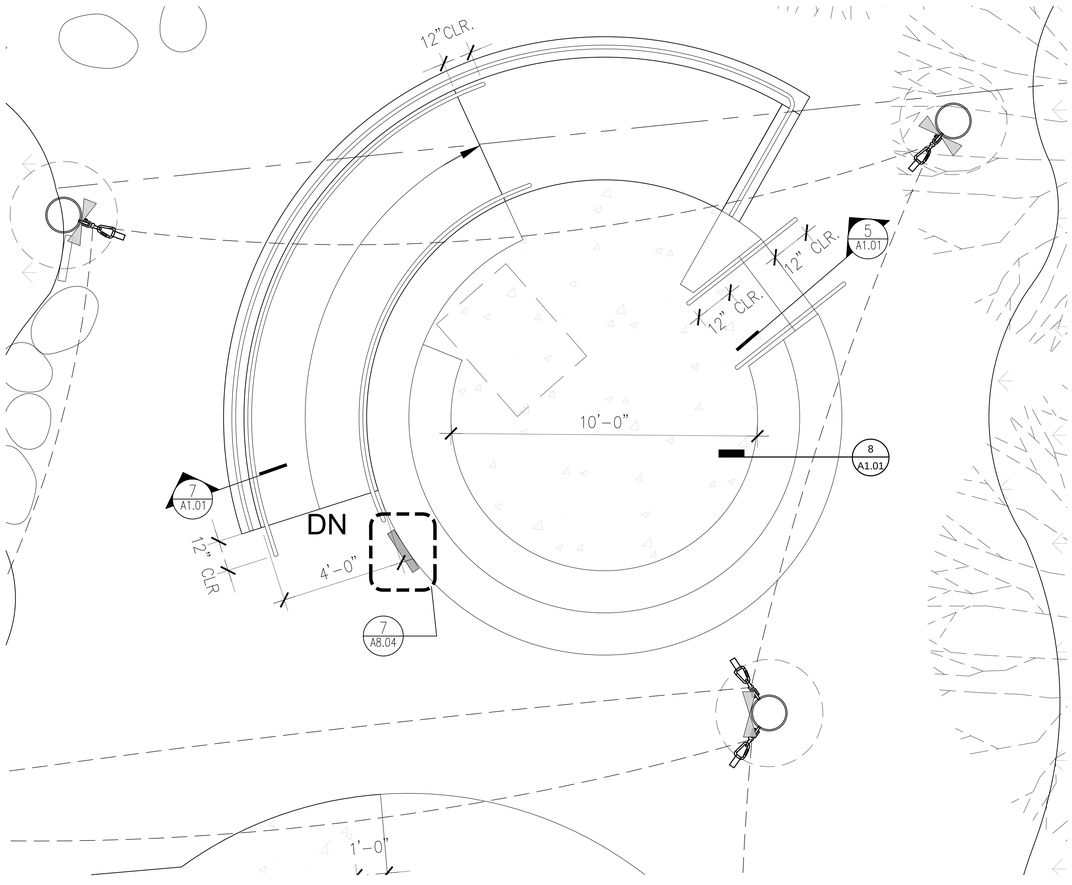
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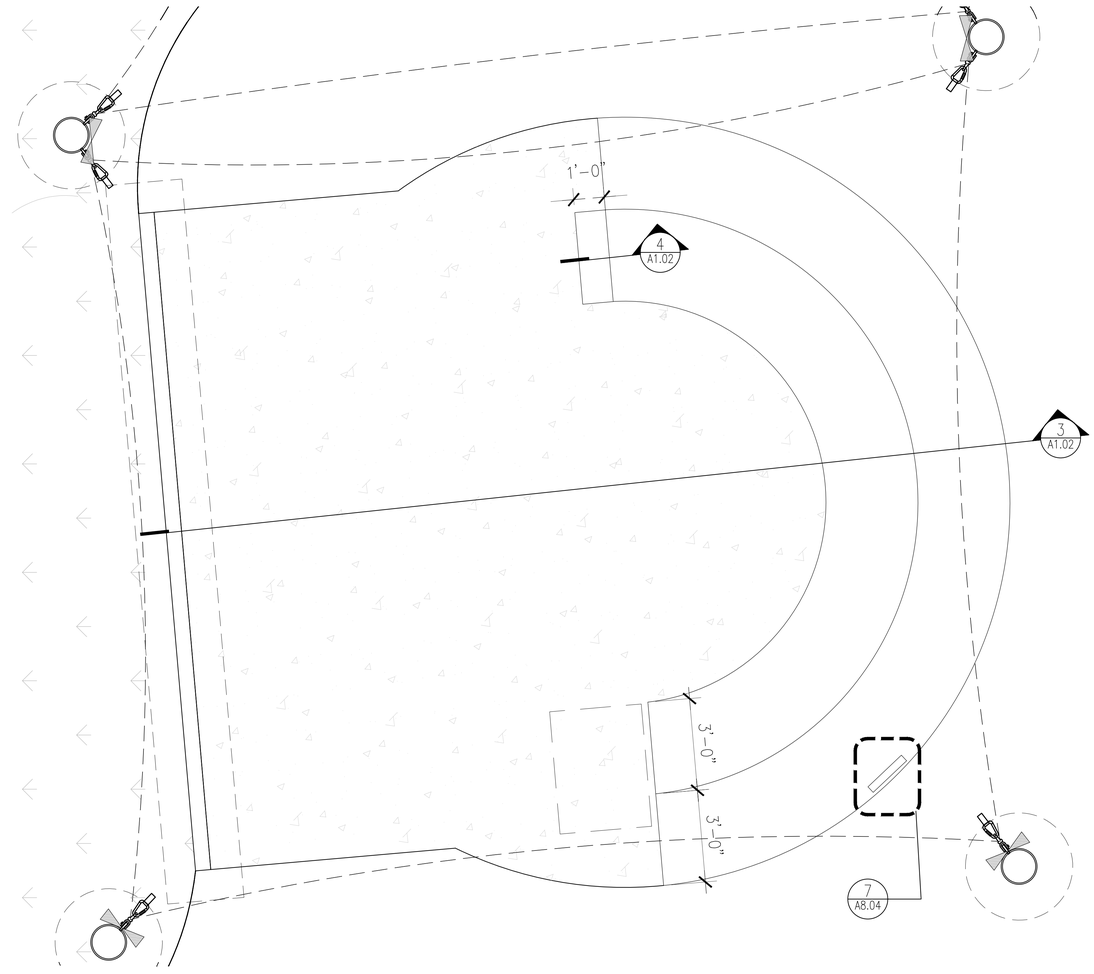

4 STAIRS @ OUTDOOR CLASSROOM - STEP @ SEATING
SCALE: 1" = 1'-0"

3 STAIRS @ OUTDOOR CLASSROOM - STAGE WALL AND STEPPED SEATING SECTION
SCALE: 1" = 1'-0"




2 SUNKEN OUTDOOR CLASSROOM - ENLARGED PLAN
SCALE: 1/2" = 1'-0"

N
PLAN
NORTH




1 OUTDOOR CLASSROOM - STAGE AND SEATING - ENLARGED PLAN
SCALE: 1/2" = 1'-0"

N
PLAN
NORTH

FILE No.: 19-91 A#: 03-123590

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HELENA L. JUBANY
22214
REN. 5-31-27
STATE OF CALIFORNIA

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MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST., ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

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SITE PLAN - ENLARGED PLAN

**A1.02**
NEW SHEET




1 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

N
PLAN NORTH

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/23/2026

FILE No.: 19-91 | A#: 03-123590

GENERAL NOTES

1. THE DEMOLITION PLANS INCLUDE THE SCOPE OF DEMOLITION WORK REQUIRED, BUT ARE NOT INTENDED TO INCLUDE ALL OF THE DETAILED REQUIREMENTS. ALL DEMOLITION WORK NOT SHOWN ON DRAWINGS OR SPECIFIED WHICH IS REQUIRED FOR COMPLETION OF WORK INCLUDED IN THE CONTRACT DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. COORDINATE ALL DEMOLITION WORK WITH ALL TRADES AND REVIEW DRAWINGS FOR EXACT LOCATIONS OF ALL OPENINGS, ETC., PRIOR TO STARTING WORK.
3. ALL EXISTING WALLS, STRUCTURE, DOORS AND OTHER ITEMS TO REMAIN ARE SHOWN AS SOLID LINES OR INDICATED AS SUCH BY NOTE. ALL STRUCTURAL MEMBERS, SLABS AND ROOF STRUCTURE/DECKS ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

GRAPHIC LEGEND

EXISTING, TO REMAIN

EXISTING, TO BE DEMOLISHED

KEYNOTES

1.0 NOT USED
2.0 NOT USED
3.0 NOT USED
4.0 NOT USED

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NEW RELOCATABLES
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DEMOLITION PLAN

**A2.00**
REVISED

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1 CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

N
PLAN NORTH

## GRAPHIC LEGEND

EXISTING, TO REMAIN

NEW RELOCATABLE

EDUCATIONAL SIGNAGE (7 / A8.04)

SURFACE MOUNTED EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL SHEET FOR SPECS.

PLANTER EXTERIOR LIGHT FIXTURES, REFER TO ELECTRICAL SHEET FOR SPECS.

## KEYNOTES

1.0 (1) NEW 24'X40' RELOCATABLE

2.0 NEW CONCRETE WALKWAY

3.0 NEW DOUBLE DOOR -CHAINLINK FENCE (8 / A8.05)

**CONTRACTOR TO VERIFY AND PROVIDE ALS SYSTEM FOR (N) RELOCATABLE CLASSROOM FROM EXISTING ALS SYSTEM AT MPR UNDER A#03-118778**
PART 2 - PRODUCTS

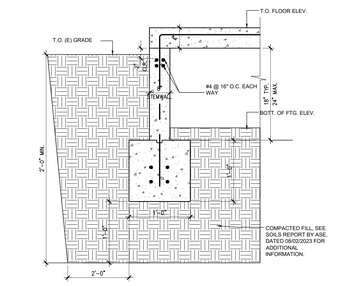
2.1 EQUIPMENT

A. HEARING ASSISTANCE SYSTEM. FM HEARING ASSISTANCE SYSTEM SHALL BE A PERSONAL FM LISTENING SYSTEM, PPA 377, MANUFACTURED BY WILLIAMS SOUND, OR APPROVED EQUAL, AND SHALL CONSIST OF THE FOLLOWING COMPONENTS.

1. PPA T35 TRANSMITTER SHALL BE MOUNTED INSIDE THE AMPLIFIER CABINET. THE TRANSMITTER SHALL HAVE 17 WIDEBAND CHANNELS OPERATING ON 72.1 MHZ -75.9 MHZ BAND AND 77 NARROWBAND CHANNELS OPERATING ON 72.025 MHZ - 75.975 MHZ. THE PPA T35 TRANSMITTER SHALL BE MICROPROCESSOR CONTROLLED WITH PUSH BUTTON CONFIGURATION WITH AN OPERATING RANGE UP TO 1000FT. RADIUS.

2. PPA R37 RECEIVER FOR USE BY THE LISTENER SHALL BE A BODY-PACK STYLE AND INCLUDE A DETACHABLE BELT-CLIP FOR HANDS FREE OPERATION. RECEIVER SHALL HAVE A 3.5 MM STEREO/MONO JACK TO ACCOMODATE STEREO OR MONO LOW IMPEDANCE EARPHONES, HEADPHONES AND NECKLOOPS. UNIT MUST BE FURNISHED WITH TWO AA RECHARGEABLE NIHM BATTERIES (BAT 026). A TOTAL OF 12 RECEIVERS MUST BE SUPPLIED FOR THE PROJECT.

3. CHG 35 12 PRO - UNIT MUST BE CAPABLE OF STORING OR RECHARGING UP TO 12 RECEIVERS AT ONE TIME. THE CHARGER MUST BE CAPABLE OF CHARGING NIMH BATTERIES WITHOUT REMOVING THE BATTERIES FROM THE RECEIVER. ONE (1) BATTERY CHARGER MUST BE PROVIDED FOR THE PROJECT.




A END WALL FOOTING
1" =1'-0"

FILE No.: 19-91 A#: 03-123590

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# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
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CONSTRUCTION PLAN

**A3.00**
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1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

N
PLAN NORTH

GRAPHIC LEGEND

- EXISTING, TO REMAIN
- NEW WALL
- T-BAR CEILING
- 2'X4' RECESSED LIGHT FIXTURE
- 1'X4' RECESSED LIGHT FIXTURE
- ACCESS PANEL
- EXHAUST FAN

KEYNOTES

1.0 GYPSUM BOARD CEILING

2.0 REFLECTED CEILING PLAN, REFER TO PC DRAWINGS #04-121999 MODULAR CLASSROOM BUILDINGS ( WITH OPTIONAL RESTROOM MODULES)

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## NEW RELOCATABLES
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ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
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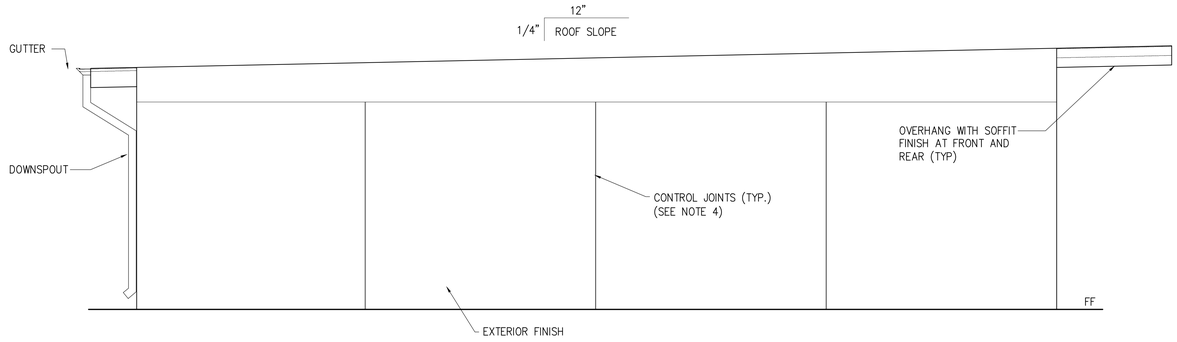
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REFLECTED CEILING PLAN

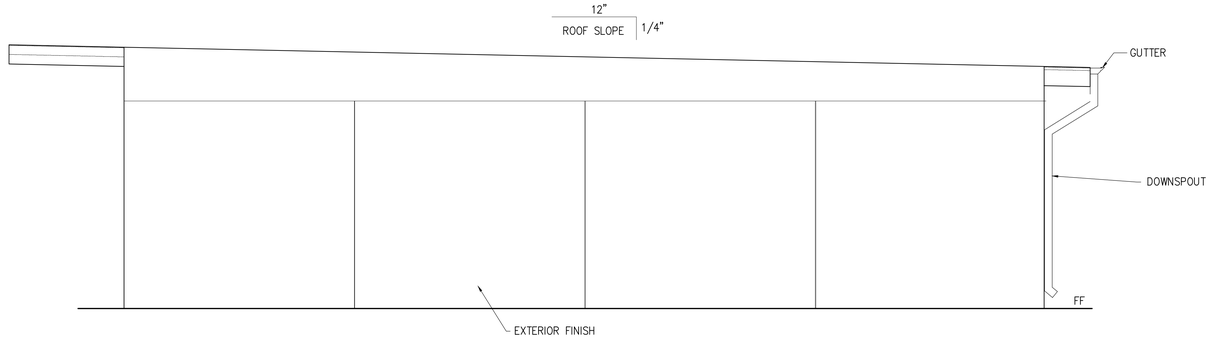
**A4.00**
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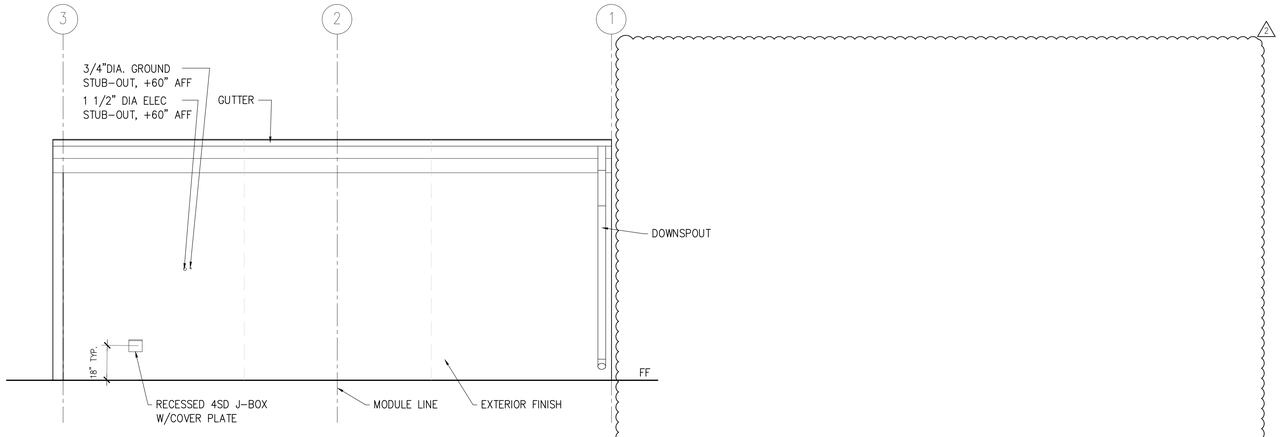

4 EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 3/8" = 1'-0"



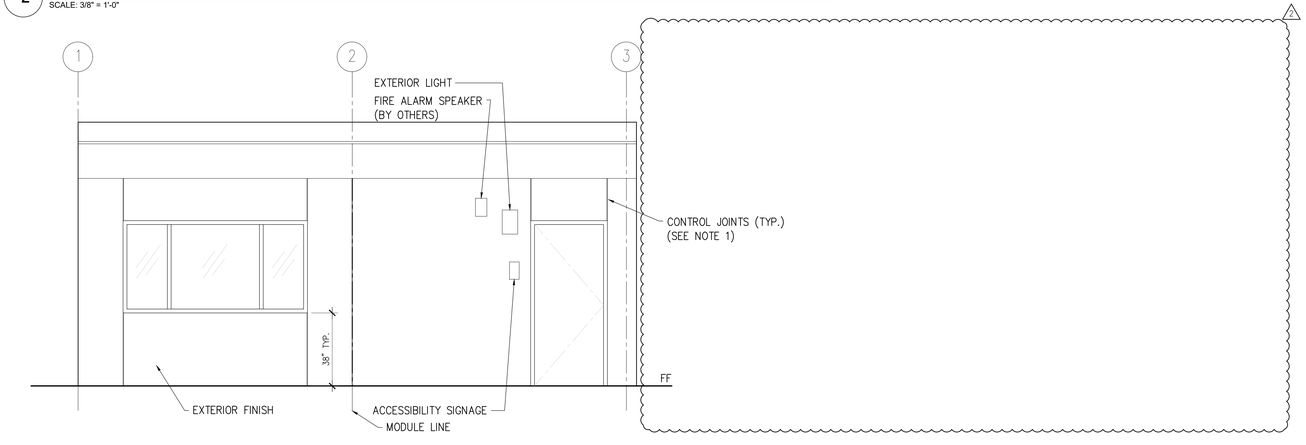

3 EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 3/8" = 1'-0"




2 EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 3/8" = 1'-0"




1 EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 3/8" = 1'-0"

NOTES (EXTERIOR ELEVATION)

1. FOR PLASTER ONLY, PROVIDE CONTROL JOIN AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND /OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705

2. EXTERIOR PROJECTIONS SHALL COMPLY WITH SECTION 705 AND 1406, 2022 CBC

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## NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD
SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
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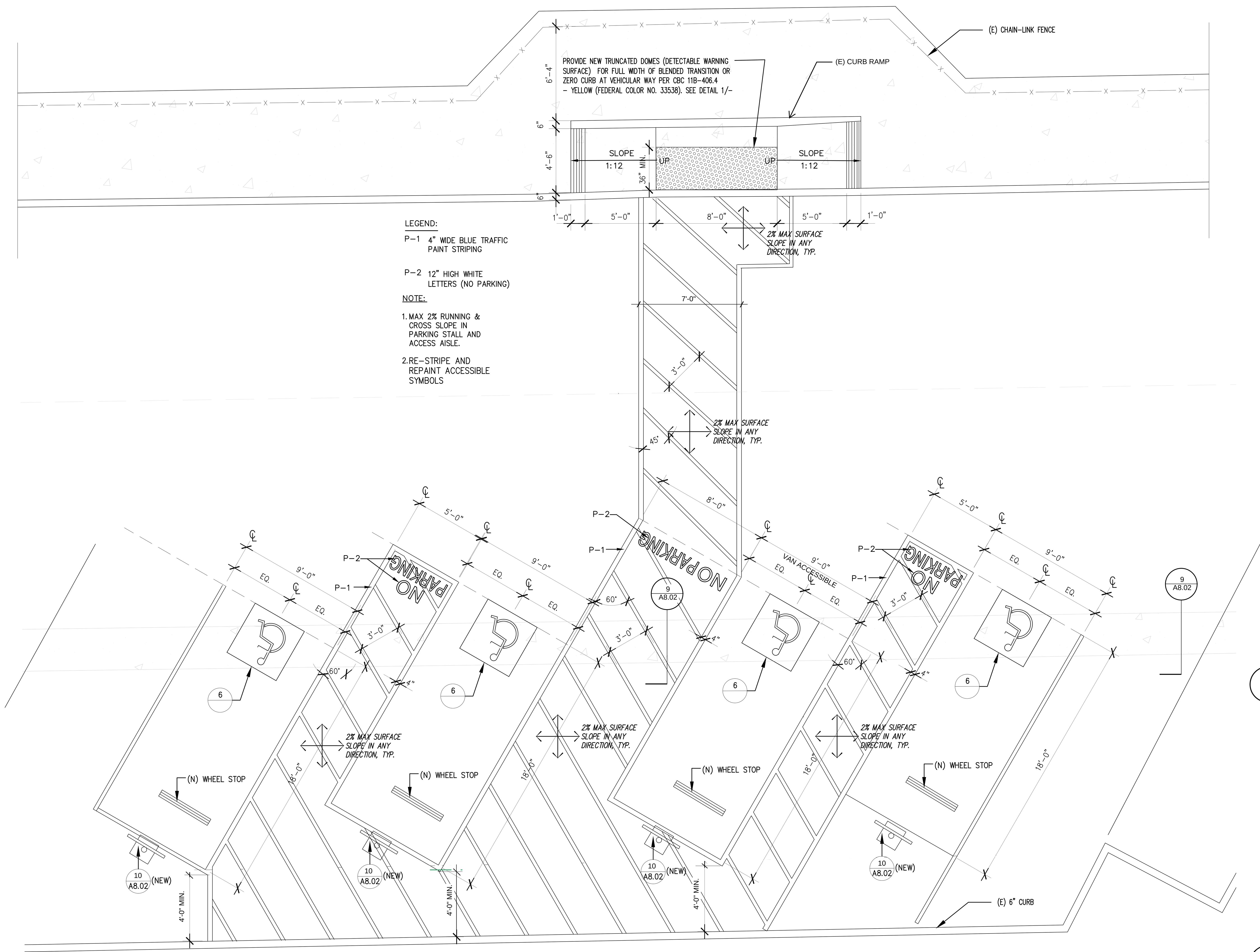
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EXTERIOR
ELEVATIONS

A5.00
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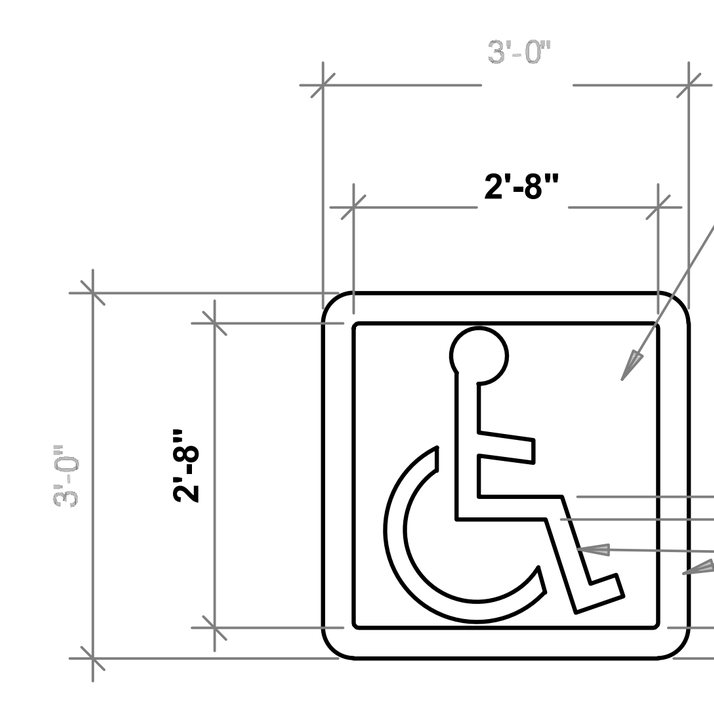
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12 ACCESSIBLE PARKING STRIPING
Scale: 1/4" = 1'-0"

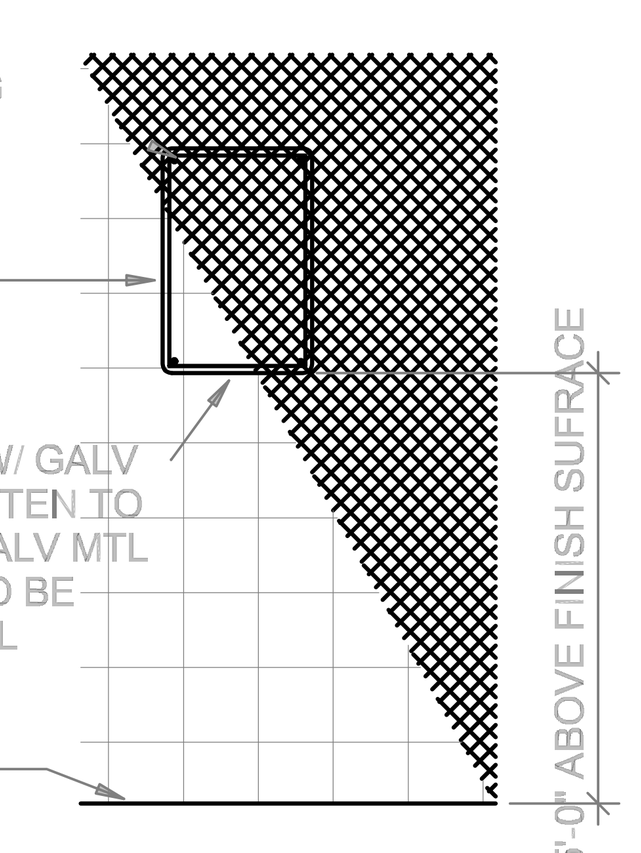
## NOTES

1. A CONCRETE CUTTING SAW SHALL BE USED TO SAWCUT ALL EXISTING PAVEMENT ALONG LINES OF REMOVAL, WHERE NEW PAVEMENT IS TO ADJOIN EXISTING.
2. OVERLAP SEALER COAT A MINIMUM OF 12" BEYOND JOINT LINES, WHERE NEW PAVEMENT ABUTTS EXISTING.
3. ALL SURFACES SHALL PROVIDE POSITIVE DRAINAGE FREE FROM DEPRESSIONS AND SHALL BE FLOODED AS NECESSARY TO VERIFY DRAINAGE CHARACTERISTICS.
4. DUST SHALL BE CONTROLLED BY WATERING.
5. PATCH, REPAIR AND/OR RECONSTRUCT ALL DAMAGED AREAS OF EXISTING PAVING TO MATCH ADJACENT SURFACES.
6. REFER TO ELECTRICAL AND PLUMBING DRAWINGS PRIOR TO EXCAVATING, TRENCHING OR GRADING OPERATIONS. VERIFY LOCATIONS AND DEPTHS OF UTILITIES AND PROTECT THROUGH-OUT THE WORK.
7. SCORE CONCRETE WALKS AND RAMPS AS INDICATED. EQUAL SPACES BETWEEN EXPANSIONS JOINTS.
8. DOUBLE LINES ACROSS CONCRETE WALKS INDICATE EXPANSION JOINTS AT 20'-0" O.C. MAXIMUM.
9. STRIPING & LETTERING SHALL BE 2 COATS OF WHITE TRAFFIC PAINT APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL LETTERING TO BE 12" HIGH WITH 1-1/2" WIDE STROKE. ALL STRIPING 4" WIDE. ALL STRIPING TO BE APPLIED WITH CUTOUTS & TEMPLATES WITHOUT FUZZINESS OR WAVINESS.
10. SEE SITE PLAN FOR OVERALL LAYOUT.
11. THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY.
12. 8' ACCESS AISLE SHALL BE PLACED ON THE PASSENGER SIDE OF A VAN ACCESSIBLE SPACE.
13. ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE INLESS OTHERWISE INDICATED.
14. PARKING SPACE AND ACCESS AISLE SHALL HAVE A MAXIMUM SLOPE OF 1.5% IN ANY DIRECTION.
15. POLE SIGNAGE SHALL NOT BE PLACED IN A PATH OF TRAVEL.
16. IF POLE INSTALLED NEXT TO ACCESSIBLE WALK PROVIDE 1'-0: MIN. CLEAR.
17. PER CH 11B-502.2 EXCEPTION: VAN PARKING SPACES SHALL BE PERMITED TO BE 108 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES WIDE MINIMUM.

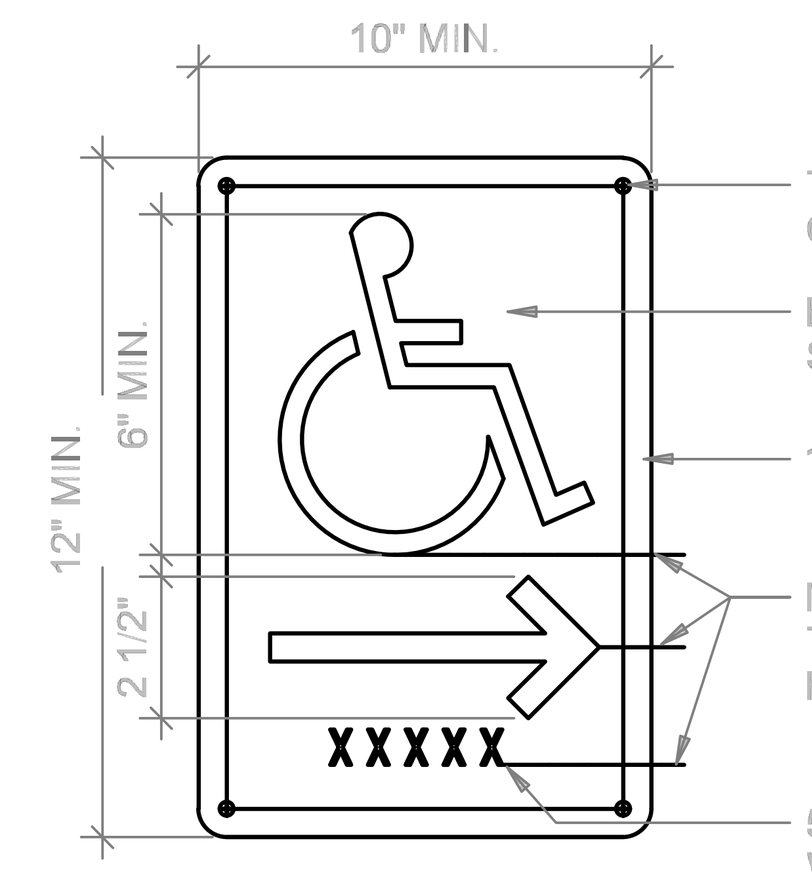



A ACCESSIBLE PARKING SYMBOL

6 ACCESSIBLE PARKING SYMBOL
Scale: 1" = 1'-0"




5 WALL & FENCE MOUNTING SIGN
Scale: 1" = 1'-0"




NOTE:
VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

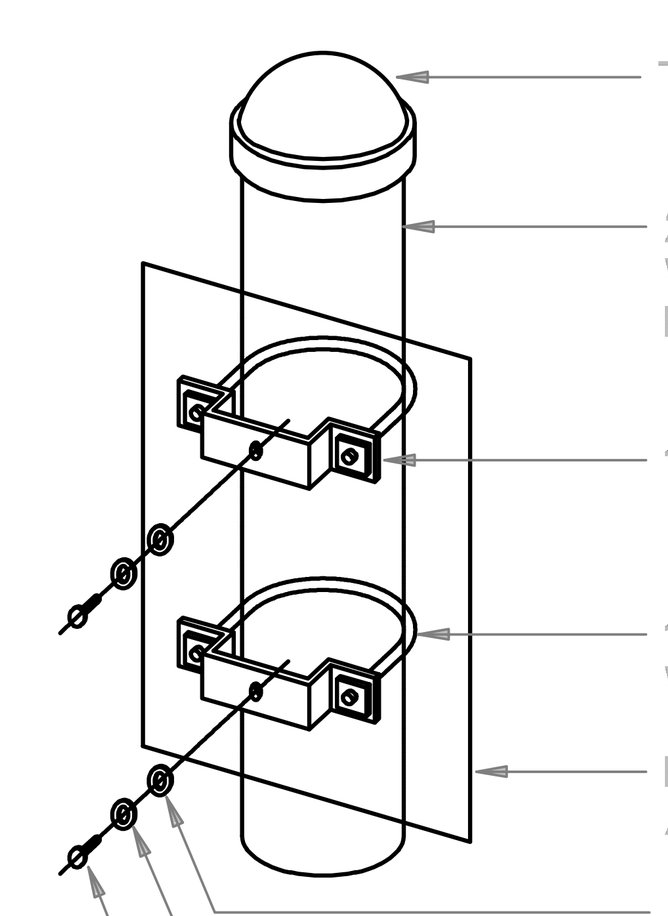
CHARACTER HEIGHT TO BE 5/8" MIN. AND 2" MAX BASED ON THE HEIGHT OF THE UPPERCASE "I" CBC 11B-703.2.5

ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) SHALL COMPLY WITH CBC 11B-703.7 & CBC FIGURE 11B-703.7.2.1 (PROPORTIONS), TYP.

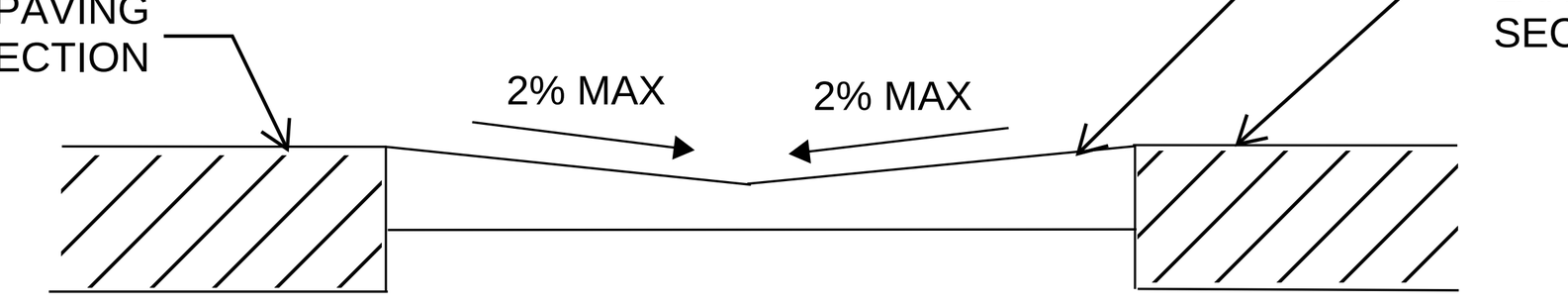
ACCESSIBLE DIRECTIONAL SIGN; COMPLY WITH *VISUAL* SIGN REQUIREMENTS (11B-703.5)

REFER TO SPEC 10 1400 - 2.3 - B AND CBC 2022 11B-703.5 FOR REQUIREMENTS FOR VISUAL CHARACTER SIGNS

3 ACCESSIBLE DIRECTIONAL SIGNAGE
Scale: 3" = 1'-0"




2 SIGN ATTACHMENT DETAIL - POST
Scale: 1" = 1'-0"

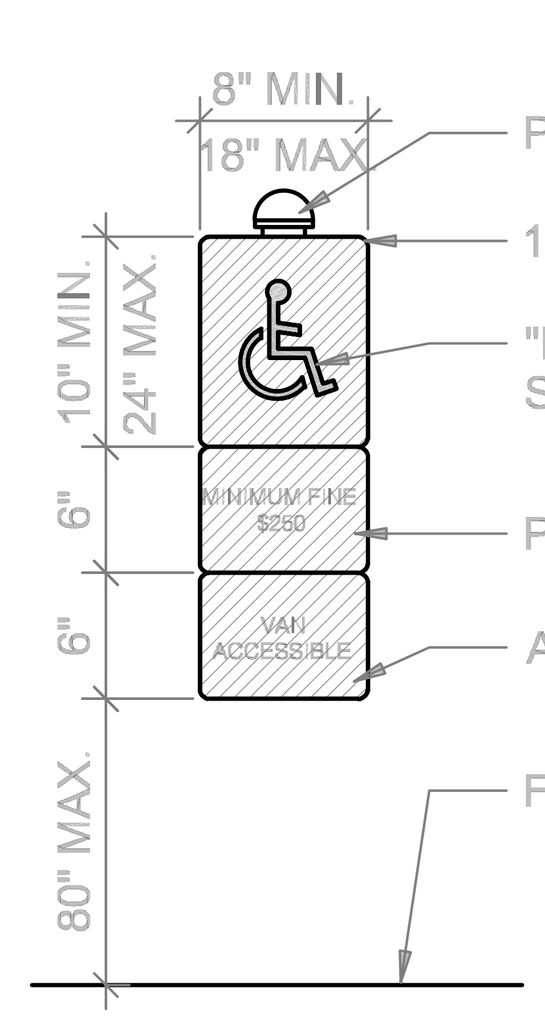



9 V-GUTTER DETAIL
NOT TO SCALE




NOTES:
1. FOR POST MOUNTING SEE DETAIL 4/-

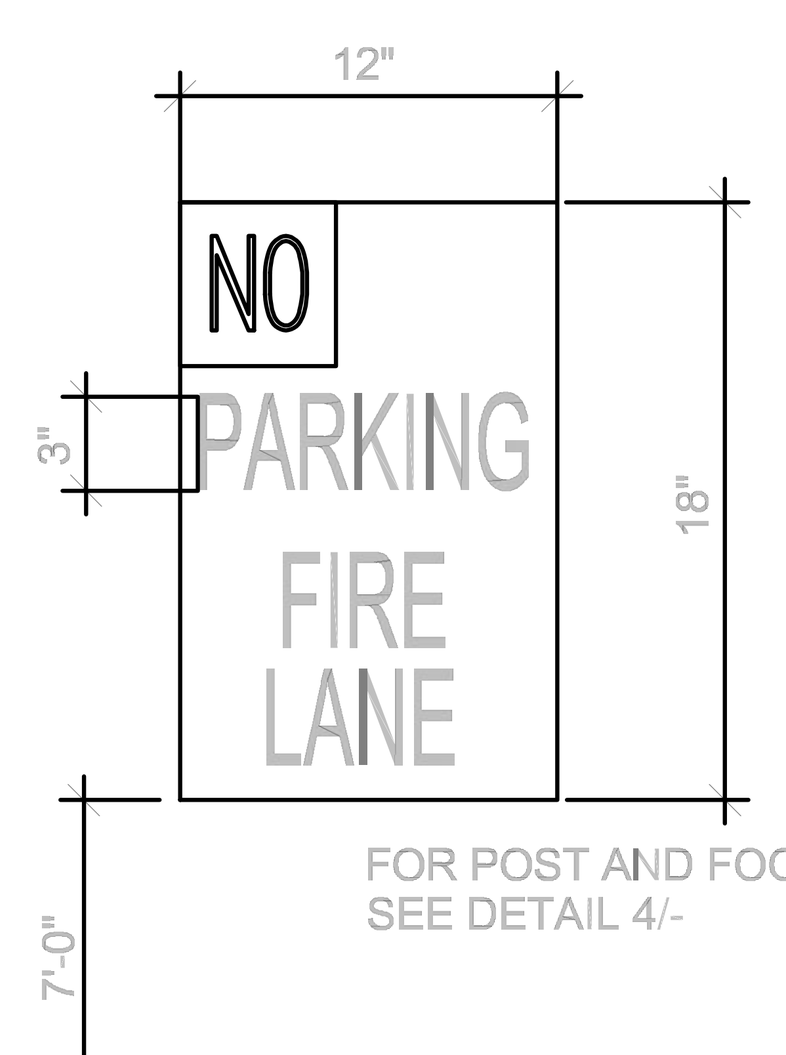
11 NO PARKING FIRE LANE
Scale: 1 1/2" = 1'-0"




NOTE: FOR FENCE ATTACHMENT SEE 5/- FOR POST ATTACHMENT SEE DETAIL 4/-

NOTE:
TEXT AND SYMBOLS TO BE COLOR WHITE ON BLUE BACKGROUND-TYPICAL

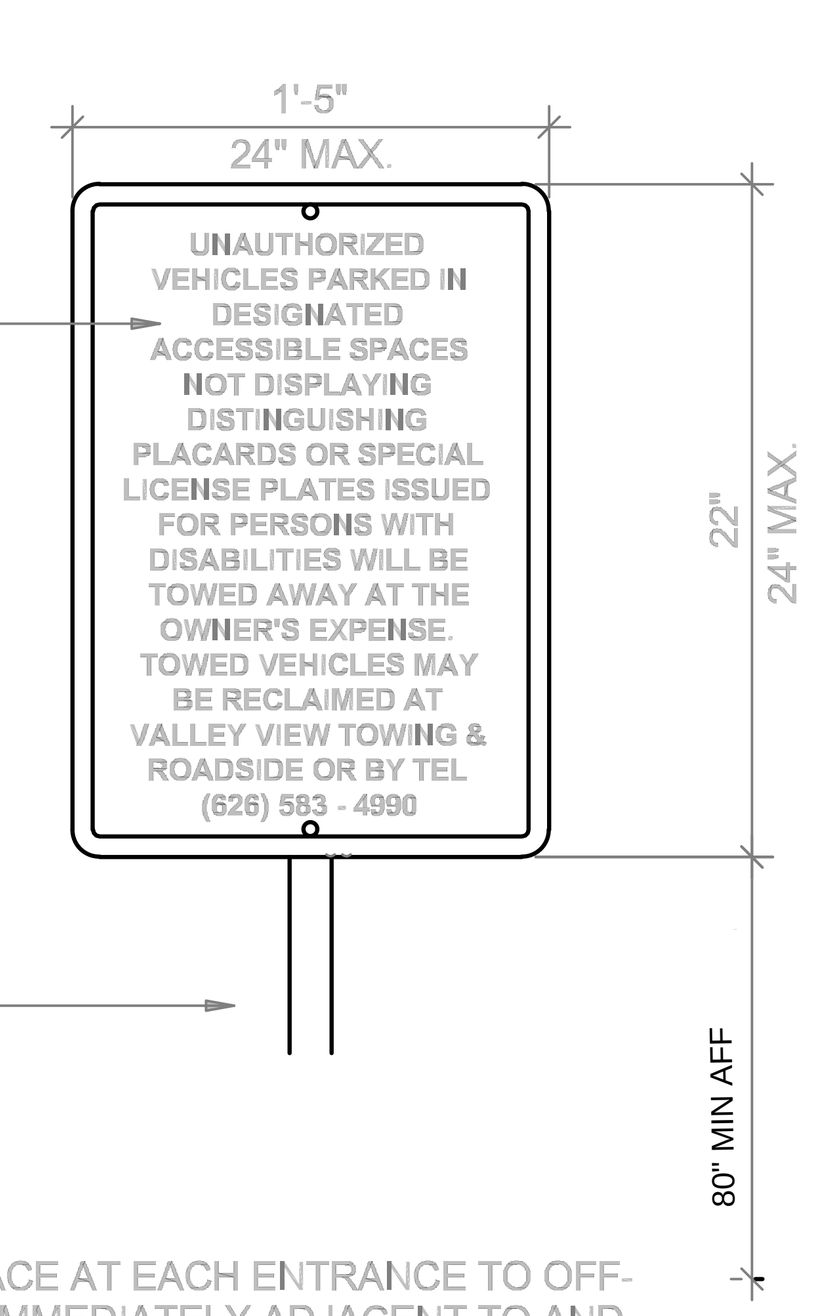
10 ACCESSIBLE PARKING SIGNAGE
Scale: 1" = 1'-0"




FOR POST AND FOOTING DETAIL, SEE DETAIL 4/-

1. METAL REFLECTORIZED SIGN
2. SIZE: MINIMUM 12"x18"
3. MINIMUM 3" LETTERING
4. WHITE BACKGROUND WITH RED LETTERING
5. BOTTOM OF THE SIGN SHALL BE 7'-0" ABOVE GROUND LEVEL.
6. FOR SIGN POST MOUNTING REFER TO 2/-

8 FIRE LANE SIGNAGE
Scale: 3/16" = 1'-0"




NOTE:
POST IN CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING LOT, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH DESIGNATED STALL. SIGN SHALL NOT OBSTRUCT PASSAGE FROM PARKING STALL OR ANY WALKWAY. ALL LETTERS MUST BE PERMANENT PART OF SIGN. DECALS/STICKERS ARE NOT ACCEPTABLE.

7 TOW AWAY PARKING LOT SIGN
Scale: 1 1/2" = 1'-0"

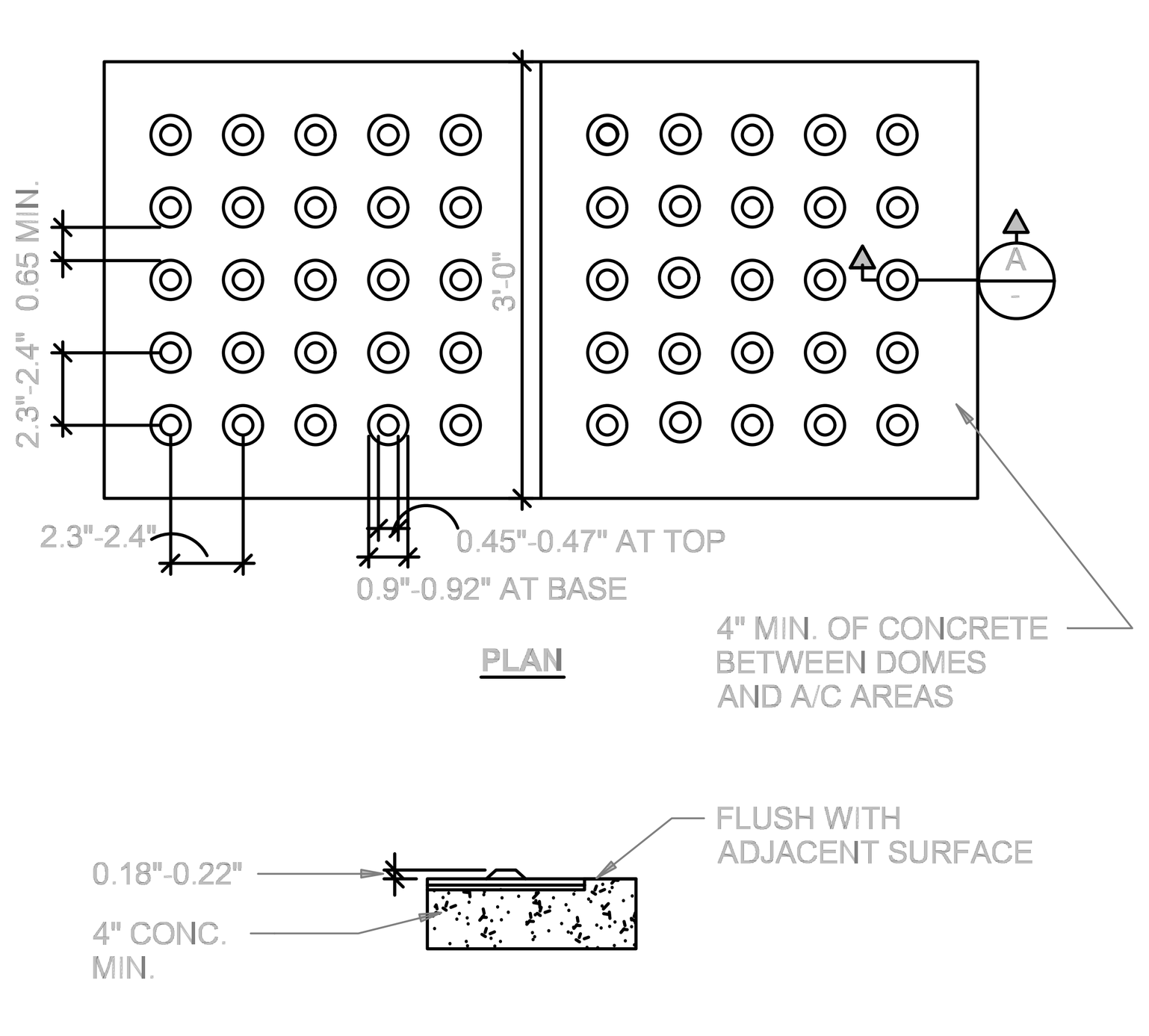



NOTE:
SEE SIGN ATTACHMENT DETAILS. SIGN MAY BE MOUNTED ON FENCE OR WALL, WHERE APPLICABLE - SEE 5-A8.02

4 POST MOUNTED SIGN - FOOTING
Scale: 1" = 1'-0"

NOTES:
1. DETECTABLE WARNING TILE SHALL FORM CONTINUOUS SURFACE OF CROSSWALK.
2. COLOR YELLOW TO MATCH FEDERAL COLOR NO. 33538, PER STANDARD NO. 595C.
3. PROVIDE 5 YEAR PRODUCT WARRANTY PER DSA BULLETIN ISSUED 10/31/2002, REVISED 04/09/2008

WHERE THE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70 PERCENTAGE MINIMUM CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH (25 MM) WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM ADJACENT WALKING SURFACES. YELLOW COLOR APPROX. FS 33538 OF FEDERAL STANDARD 595C.




1 DETECTABLE WARNING DOMES
Scale: 3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

FILE No.: 19-91 A#: 03-123590

Revisions
02/27/2026 BID SET

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3907 ROSEMEAD BLVD., ROSEMEAD, CA 91770

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Los Angeles, CA 90012-2323
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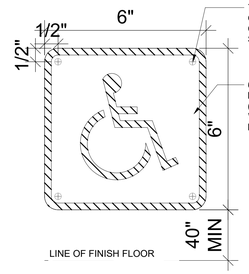
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| NAC NO | 161-23078 |
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| DATE | 02/27/2027 |

SITE DETAILS

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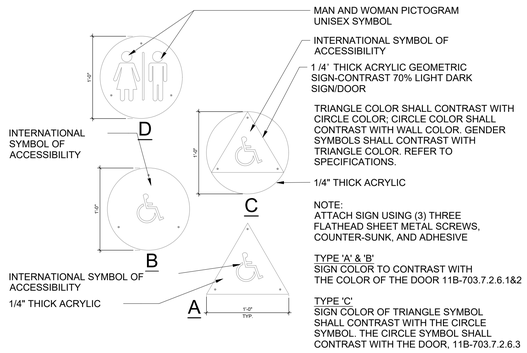
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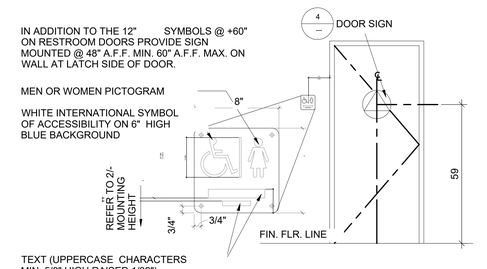

NOTE:
ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN, TO BE VISIBLE TO PERSONS APPROACHING FROM PEDESTRIANS WAYS.

ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) SHALL COMPLY WITH CBC 11B-703.7 & CBC FIGURE 11B-703.7.2.1 (PROPORTIONS), TYP.

## 5 INTERNATIONAL SYMBOL OF ACCESSIBILITY
Scale: 6" = 1'-0"



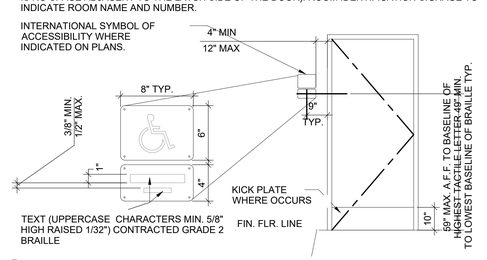

## 4 RESTROOM DOOR SIGNS
Scale: 1 1/2" = 1'-0"



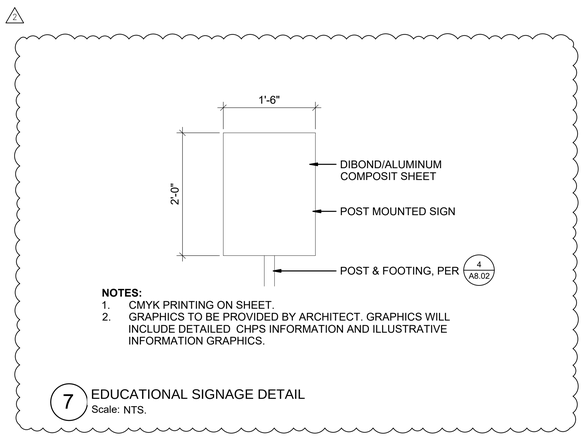

RAISED CHARACTER (1) & BRAILLE (2) ON RESTROOM IDENTIFICATION SIGN; COMPLY WITH *TACTILE* SIGN REQUIREMENTS & *VISUAL* SIGN REQUIREMENTS (11B-703.5); BOTH RAISED CHARACTERS AND BRAILLE SHALL BE CENTERED ON THE SIGN TO ENSURE 18"x18" CLEAR APPROACH AREA IS MAINTAINED.

## 3 RESTROOM WALL SIGN MOUNTING HEIGHT
Scale: 1/2" = 1'-0"

PERMANENT ROOM IDENTIFICATION SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHIN 3" WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF THE DOOR. (PLACE SIGN NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT, WHERE THERE IS NO SPACE ADJACENT TO THE LATCH SIDE OF THE DOOR). ROOM IDENTIFICATION SIGNAGE TO INDICATE ROOM NAME AND NUMBER.




## 2 ROOM NAME & NUMBER SIGN MOUNTING HEIGHT
Scale: NTS.




**NOTES:**
1. CMYK PRINTING ON SHEET.
2. GRAPHICS TO BE PROVIDED BY ARCHITECT. GRAPHICS WILL INCLUDE DETAILED CHPS INFORMATION AND ILLUSTRATIVE INFORMATION GRAPHICS.

## 7 EDUCATIONAL SIGNAGE DETAIL
Scale: NTS.

SIGNAGE NOTES

**11B-703.2 RAISED CHARACTERS**

*RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTION 11B-703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDINACE WITH SECTION 11B-703.4.*

*11B-703.2.1 DEPTH: RAISED CHARACTERS SHALL BE 1/32 INCH MIN. ABOVE THEIR BACKGROUND.*

*11B-703.2.2 CASE: CHARACTERS SHALL BE UPPERCASE.*

*11B-703.2.3 STYLE: CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSAL FORMS.*

*11B-703.2.4 CHARACTER PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".*

*11B-703.2.5 CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".*

*11B-703.2.6 STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.*

*11B-703.2.7 CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MINIMUM.*

*11B-703.2.8 LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF THE RAISED CHARACTER HEIGHT.*

*11B-703.2.9 FORMAT: TEXT SHALL BE IN A HORIZONTAL FORMAT.*

**11B-703.3 BRAILLE**

*BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 & 11B-703.4.*

*11B-703.3.1 DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.*

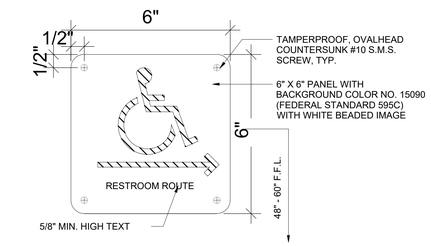
*11B-703.3.2 POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN. AND 1/2" MAX. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS.*
*EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16" MIN. AND SHALL BE LOCATED EITHER DIRECTLY BELOW THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS*

**11B-703.4 INSTALLATION HEIGHT AND LOCATION**

*SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH SECTION 11B-703.4.*

*11B-703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND: TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS CHARACTER, AND 60" MAX. ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.*
*EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-703.4.1.*

*11B-703.4.2 LOCATION: WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.*
*EXCEPTION: IN ALTERATIONS WHERE SIGN INSTALLATION LOCATIONS IDENTIFIED IN SECTION 11B-703.4.2 ARE OBSTRUCTED OR OTHERWISE UNAVAILABLE FOR SIGN INSTALLATION, SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.*




NOTE:
VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

CHARACTER HEIGHT TO BE 5/8" MIN. AND 2" MAX BASED ON THE HEIGHT OF THE UPPERCASE "T" CBC 11B-703.2.5

ISA (INTERNATIONAL SYMBOL OF ACCESSIBILITY) SHALL COMPLY WITH CBC 11B-703.7 & CBC FIGURE 11B-703.7.2.1 (PROPORTIONS), TYP.

## 1 RESTROOM DIRECTIONAL SIGNAGE
Scale: 6" = 1'-0"

FILE No.: 19-91 A#: 03-123590

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| 2 | 01/30/2026 | REVISION 02 |
| 3 | 02/27/2026 | BID SET |

LICENSED ARCHITECT HELENA L. JUBANY 22214 REN 5-31-27 STATE OF CALIFORNIA

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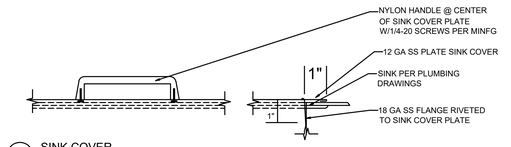
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SIGNAGE DETAILS

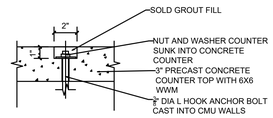
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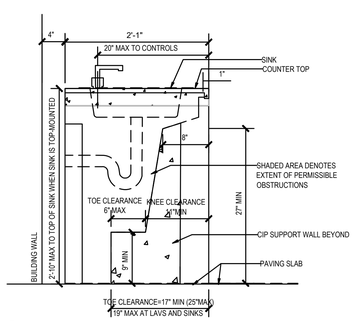



F SINK COVER

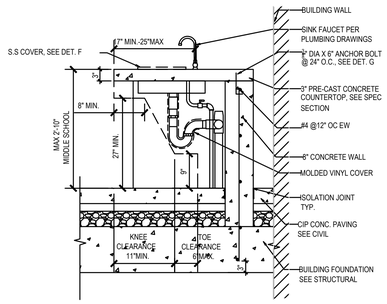
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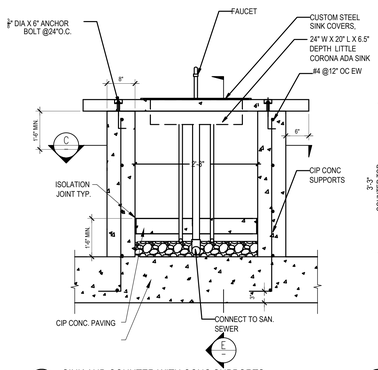

G CONCRETE COUNTER ATTACHMENT



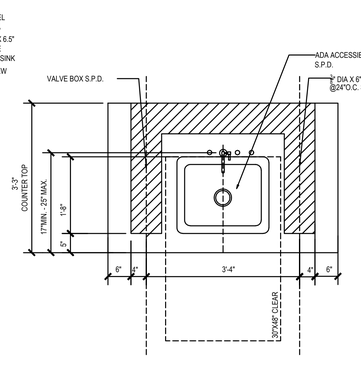

D ACCESSIBLE KNEE & TOE CLEARANCE SINK




E CONCRETE COUNTER AND OUTDOOR SINK SECTION



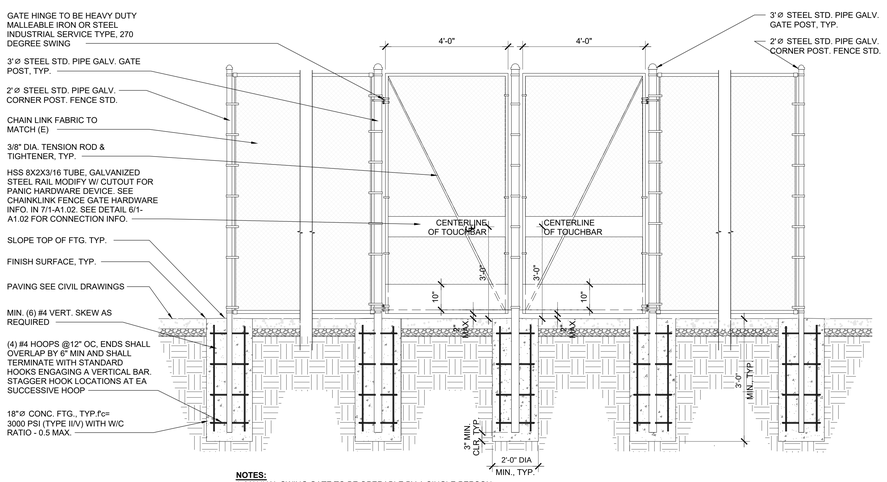

A SINK AND COUNTER WITH CONC SUPPORTS




B CONCRETE COUNTER AND OUTDOOR SINK PLAN

N-JA-60

## 9 EXTERIOR SINK
Scale: 3/4" = 1'-0"




**NOTES:**
1. MANUAL SWING GATE TO BE OPERABLE BY A SINGLE PERSON.
2. NO WINDSCREEN FABRIC MESH OR OTHER, EXCEPT CHAIN LINK MESH FABRIC, TO BE INSTALLED ON FENCE, TYP.
3. ALL EXTERIOR EXPOSED FENCING MATERIALS TO BE GALVANIZED U.N.O.

## 8 CHAINLINK FENCE - DOUBLE DOOR
Scale: 1/2" = 1'-0"



SCHLAGE
Grade 1 Institution Mortise Lock, Less Cylinder, 06 Lever, N Escutcheon, Satin Chrome Finish, Field
Mfr # L9082L 06N 626 Zoro # G8099578594

## 7 LEVER CUT SHEET
Scale: NTS

WORK EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS/SPECIAL INSPECTIONS:

CONCRETE:

CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705 A 3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION

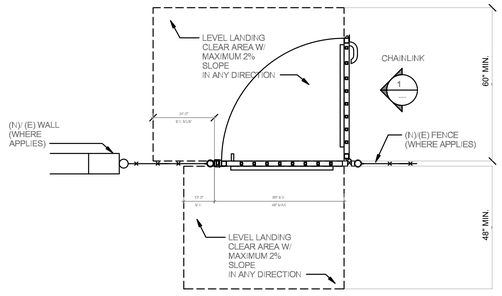
TESTING OF REINFORCING BARS IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTIONS 1910 A.2 SUBJECT TO REQUIREMENTS AND LIMTATIONS IN THAT SECTION

WELDING:

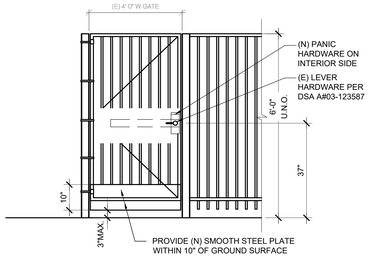
SOLID CLAD AND OPEN MESH FENCES, GATES AND MAX LEAF SPAN OF 10' AND GATES WITH A MAXIMUM ROLLING SECTION OF 10' ALL HAVING AN APEX HEIGHT LESS THAN 8' ABOVE LOWEST ADJACENT GRADE. WHEN LOCATED ABOVE CIRCULATION OR OCCUPIED SPACE BELOW, THESE GATES/FENCES ARE NOT LOCATED WITHIN 1.5 X GATE/FENCE HEGHT (MAX. 8') TO THE EDGE OF FLOOR OR ROOF.

GENERAL ACCESSIBLE GATE NOTES:

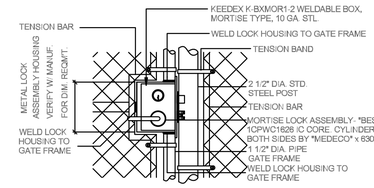
1. GATES IN THE PATH OF TRAVEL SHALL BE PROVIDED WITH A SOLID KICK PLATE, 10" HIGH AND 3" MAX. FROM THE PAVEMENT ON BOTH SIDES.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS., SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLE.
3. THE SWEEP PERIOD OF CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
4. GATE HARDWARE:
   a. EXIT DEVICE: WITH PULL LEVER HARDWARE, SEE DETAIL 4 ABOVE, WHERE OCCURS SEE GATE SCHEDULE
   b. DOOR CLOSER @ 7'-0"H.: 180-DEGREE, DELAYED ACTION L.C.N., 4041: NORTON PR7500DA; OR EQUAL
   c. WELDABLE GATE BOX: K-BXM0R1-2; BY KEEDEX INC.
   d. BALL BEARING HINGES: LOCINOX MAMMOTH HD-9005
5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



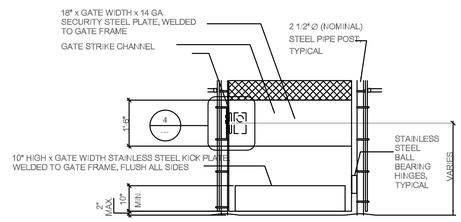

## 6 SL - GATE LANDING CLEARANCE AND NOTES
Scale: 1/2" = 1'-0"



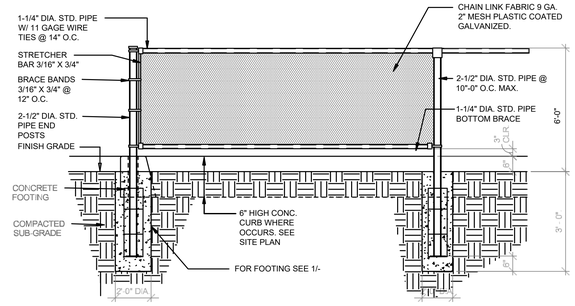

## 5 (E) WROUGHT IRON GATE
Scale: 1/2" = 1'-0"



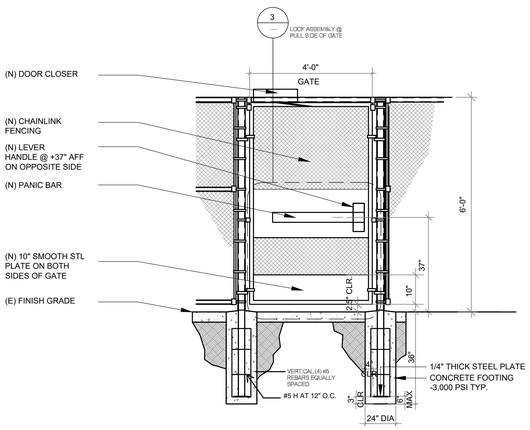

## 4 METAL LOCK ASSEMBLY
Scale: 1 1/2" = 1'-0"




## 3 CHAINLINK GATE - ACCESSORIES
Scale: 1/2" = 1'-0"




## 2 CHAIN LINK FENCE ELEVATION, TYP.
Scale: 1/2" = 1'-0"




NOTE:
NOTE PART OF DSA APPROVAL PER DSA IR A-22

## 1 ACCESSIBLE CHAINLINK GATE
Scale: 1/2" = 1'-0"

FILE No.: 19-91 A#: 03-123590

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SITE DETAILS

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## GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION AND SUPPLEMENTS), THE UNIFORM BUILDING CODE (FOR EXCAVATION AND GRADING), CALIFORNIA BUILDING CODE (CBC) AND ROSEMEAD SCHOOL DISTRICT STANDARD PLANS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND MAINTENANCE OF EROSION CONTROL PLAN.
3. NO CONCRETE SHALL BE POURED UNTIL THE PROJECT INSPECTOR HAS INSPECTED AND APPROVED THE FOOTING EXCAVATIONS.
4. IF AT ANY TIME DURING THE GRADING AND EXCAVATION OPERATIONS, UNFAVORABLE SOILS CONDITIONS ARE ENCOUNTERED, THE WORK SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
5. ALL GRADES AND CONTOURS INDICATED ON THE PLANS ARE TO FINISHED SURFACE, AND NOT ROUGH GRADES. CONTRACTOR SHALL SUBTRACT THE STRUCTURAL THICKNESS OF PAVEMENTS AND TOP-SOIL THICKNESS IN LANDSCAPED AREAS, TO OBTAIN DESIRED ROUGH GRADES.
6. NO FILL TO BE PLACED, UNTIL THE PROJECT INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
7. ALL CONCENTRATED DRAINAGE MUST BE CONDUCTED TO THE STREET IN APPROVED NON-EROSIVE DEVICES OR TO EXISTING STORM DRAIN SYSTEM.
8. EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY. ALL EXCAVATIONS SHALL BE STABILIZED WITHIN 30 DAYS OF INITIAL EXCAVATION. ALL TEMPORARY EXCAVATIONS SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
9. MAN MADE FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% MAX. DRY DENSITY, UNLESS A LOWER RELATIVE COMPACTION (NO LESS THAN 90% OF MAX. DRY DENSITY) IS JUSTIFIED BY THE SOILS ENGINEER.
10. THIS PLAN IS FOR GRADING PURPOSES ONLY AND DOES NOT CONSTITUTE APPROVAL OF BUILDINGS.
11. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
12. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED MARCH 11 2022 BY CAL VADA SURVEYING, INC.
13. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
14. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
15. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
16. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
17. ALL CURB DIMENSIONS AND RADII ARE TO BOTTOM OF CURB FACE.
18. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800-422-4133) PRIOR TO ANY EXCAVATION.
19. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
20. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ANY PUBLIC UTILITY LINES (IF ENCOUNTERED DURING CONSTRUCTION) WITH THEIR RESPECTIVE OWNERS. SEPARATE PERMITS MAY BE REQUIRED.
21. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER. MATCH EXISTING MATERIALS, SURFACE TREATMENT, AND COLORS. SAME SHALL APPLY TO PERMANENT UTILITY TRENCH RESURFACING.
22. STORM DRAINAGE SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
23. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL ONE VERTICAL.
24. ANY TEMPORARY STOCKPILING OF EXCESS MATERIAL ON SITE SHALL BE APPROVED BY THE PROJECT INSPECTOR AND THE OWNER'S AUTHORIZED REPRESENTATIVE, INCLUDING PROTECTION AND EROSION CONTROL, PRIOR TO EXCAVATION.
25. PROJECT INSPECTOR IS REQUIRED ON GRADING AND FOUNDATION EARTHWORK.
26. STAKE AND FLAG THE PROPERTY LINES IN ACCORDANCE WITH A LICENSED SURVEY MAP.
27. CONTINUOUS INSPECTION BY THE SOIL ENGINEER/GEOLOGIST IS REQUIRED AS DESCRIBED IN THE SOIL REPORT.

## NOTICE TO CONTRACTORS:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN ELEVATION CONDITIONS FOR GRADING AND DRAINAGE WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
2. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
3. THE CONTRACTOR FURTHER SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT
4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND NOT TO THE EXPENSE OF THE OWNER OR ENGINEER.
6. ALL CHANGES TO THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT SHALL BE DONE IN WRITING AND APPROVED BY THE ENGINEER OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE, OR LIABLE FOR UNAUTHORIZED CHANGES OR USES OF THE CONSTRUCTION DOCUMENTS.
7. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
8. THE CONTRACTOR SHALL OBTAIN AN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER.
9. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

## ENVIRONMENTAL QUALITY NOTES:

A. ALL UNPAVED DEMOLITION AND CONSTRUCTION AREAS SHALL BE WETTED AT LEAST TWICE DAILY DURING EXCAVATION AND CONSTRUCTION, AND TEMPORARY DUST COVERS SHALL BE USED TO REDUCE DUST EMISSIONS AND MEET SCAQMD DISTRICT RULE 403.

B. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY CONSTRUCTION AND HAULING, AND AT ALL TIMES PROVIDE REASONABLE CONTROL OF DUST CAUSED BY WIND.

C. EROSION CONTROL TO BE INSTALLED YEAR ROUND THROUGHOUT ENTIRE PROJECT. OBTAIN GRADING INSPECTOR'S APPROVAL OF PROPOSED PROCEDURES.

D. ALL LOADS SHALL BE SECURED BY TRIMMING, WATERING OR OTHER APPROPRIATE MEANS TO PREVENT SPILLAGE AND DUST.

E. ALL MATERIALS TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT EXCESSIVE AMOUNT OF DUST.

F. ALL CLEARING, EARTH MOVING, OR EXCAVATION ACTIVITIES SHALL BE DISCONTINUED DURING PERIODS OF HIGH WINDS (I.E., GREATER THAN 15 MPH), SO AS TO PREVENT EXCESSIVE AMOUNTS OF DUST.

G. GENERAL CONTRACTORS SHALL MAINTAIN AND OPERATE CONSTRUCTION EQUIPMENT SO AS TO MINIMIZE EXHAUST EMISSIONS.

H. THE PROJECT SHALL COMPLY WITH THE NOISE ORDINANCES WHICH PROHIBIT THE EMISSION OR CREATION OF NOISE BEYOND CERTAIN LEVELS AT ADJACENT USES UNLESS TECHNICALLY INFEASIBLE.

I. CONSTRUCTION AND DEMOLITION SHALL BE RESTRICTED TO THE HOURS OF 7:00 AM TO 6:00 PM MONDAY THROUGH FRIDAY, AND 8:00 AM TO 6:00 PM ON SATURDAY.

J. CONSTRUCTION AND DEMOLITION ACTIVITIES SHALL BE SCHEDULED SO AS TO AVOID OPERATING SEVERAL PIECES OF EQUIPMENT SIMULTANEOUSLY.

K. THE PROJECT CONTRACTOR SHALL USE POWER CONSTRUCTION EQUIPMENT WITH STATE-OF-THE-ART NOISE SHIELDING AND MUFFLING DEVICES.

L. THE CONTRACTOR SHALL COMPLY WITH THE NOISE INSULATION STANDARDS OF TITLE 24 OF THE CALIFORNIA CODE REGULATIONS, WHICH INSURE AN ACCEPTABLE INTERIOR NOISE ENVIRONMENT.

M. ALL WASTE SHALL BE DISPOSED OF PROPERLY. USE APPROPRIATELY LABELED RECYCLING BINS TO RECYCLE CONSTRUCTION MATERIALS INCLUDING: SOLVENTS, WATER-BASED PAINTS, VEHICLE FLUIDS, BROKEN ASPHALT AND CONCRETE, WOOD, AND VEGETARIAN. NON RECYCLABLE MATERIALS/WASTES SHALL BE TAKEN TO AN APPROPRIATE LANDFILL. TOXIC WASTES MUST BE DISCARDED AT A LICENSED REGULATED DISPOSAL SITE.

O. PAVEMENT SHALL NOT BE HOSED DOWN AT MATERIAL SPILLS. DRY CLEANUP METHODS SHALL BE USED WHENEVER POSSIBLE.

P. DUMPSTERS SHALL BE COVERED AND MAINTAINED. UNCOVERED DUMPSTERS SHALL BE PLACED UNDER A ROOF OR BE COVERED WITH TARPS OR PLASTIC SHEETING.

Q. GRAVEL APPROACHES SHALL BE USED WHERE TRUCK TRAFFIC IS FREQUENT TO REDUCE SOIL COMPACTION AND THE TRACKING OF SEDIMENT INTO STREETS SHALL BE LIMITED.

R. ALL VEHICLE/EQUIPMENT MAINTENANCE, REPAIR, AND WASHING SHALL BE CONDUCTED AWAY FROM STORM DRAINS. ALL MAJOR REPAIRS SHALL BE CONDUCTED OFF-SITE. DRIP PANS OR DROP CLOTHES SHALL BE USED TO CATCH DRIPS AND SPILLS.

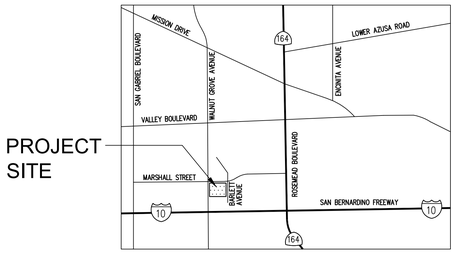
## ACCESSIBILITY NOTES:

### CALIFORNIA ACCESS COMPLIANCE, TITLE 24 CCR

1. WALKS AND SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT (2% GRADIENT) (SEC. 11B-403.3)
2. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1:20 (5% GRADIENT) IT SHALL COMPLY WITH THE PROVISIONS OF SECTION 11B-401 AS A PEDESTRIAN RAMP (SEC. 11B-403.3)
3. WALK AND SIDEWALK SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH. (SEC. 11B-403.2)
4. WALK & SIDEWALK SURFACES WITH A SLOPE OF 6% OR MORE GRADIENT SHALL BE SLIP-RESISTANT. (SEC. 11B-403.2)
5. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5' IN LENGTH AT INTERVALS OF' AT LEAST EVERY 400'. (SEC. 11B-403.7)
6. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60" WIDE AND DOOR+36" DEEP AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48" WIDE AND DOOR+12" DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. (SEC. 11B-404.2.4.1 (c) OR (d))
7. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2", AND SHALL BE A MINIMUM OF 48" WIDE. (SEC. 11B-403.1, 11B-403.2, 11B-403.5.1, 11B-403.5.3, 11B-302.1)
8. WHEN ABRUPT CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL (50%), EXCEPT THAT LEVEL CHANGES NOT EXCEEDING ¼" MAY BE VERTICAL (SEC. 11B-403.4 AND FIGURES 11B-5E (c) AND (d))
9. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE EXCEEDING 1/2" SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS. (SEC. 11B-303.4)
10. WALKS SHALL EXTEND A MINIMUM OF 36" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALL (SEC. 11B-404.2.4.1 (d))
11. WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRID OPENINGS IN GRATINGS SHALL BE 1/2" WIDE MAX IN THE DIRECTION OF TRAFFIC FLOW. ELONGATED OPENINGS, IF PROVIDED SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL (SEC. 11B-302.3)
12. ABRUPT CHANGES IN LEVEL, 4" OR MORE, EXCEPT BETWEEN A WALK OR A SIDEWALK AND ADJACENT STREETS OR DRIVEWAYS SHALL BE IDENTIFIED BY A 6" HIGH CURBS ABOVE WALK SURFACE (SEC. 11B-303.5)
13. PROVIDE SIGNS DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL. SIGNS SHALL INDICATE THE DIRECTION TO ACCESSIBLE BUILDING ENTRANCES AND SHALL COMPLY WITH SECTION 11B-703 (SEC. 11B-216.6)

## PAVING NOTES:

1. A PRE-PAVING MEETING WITH PROJECT INSPECTOR AND ENGINEER IS REQUIRED 48 HOURS PRIOR TO PAVING.
2. CRUSHED AGGREGATE BASE SHOULD CONFORM TO SECTION 200-2.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557-02.
3. THE PCC PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF APPROXIMATELY 2,500 PSI FOR PEDESTRIAN AREAS.
4. ADJACENT PAVEMENTS SLAB SECTIONS SHALL HAVE FLUSH TRAPEZOIDAL KEYED CONSTRUCTION JOINT. AS AN ALTERNATIVE TO THE KEYED JOINT, DOWELING BETWEEN CONSTRUCTION JOINTS CAN BE USED. DOWELS SHALL CONSIST OF SMOOTH, #4bar REINFORCING STEEL, 18 INCHES LONG, EMBEDDED A MINIMUM OF SIX INCHES INTO THE SLAB ON EITHER SIDE OF THE CONSTRUCTION JOINT.




PROJECT SITE

## VICINITY MAP

SCALE: N.T.S.

## PREPARED BY


BRANDOW & JOHNSTON, INC.
700 SOUTH FLOWER ST. SUITE 1200
LOS ANGELES, CA. 90017
TEL (213) 596-4500
FAX (213) 596-4599

REPRESENTATIVE:

ED MELO, PE
DIRECTOR OF CIVIL ENGINEERING


## PREPARED FOR

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.
ROSEMEAD, CA 91770

REPRESENTATIVE:

NAC ARCHITECTURE
323-475-8075

## INDEX OF DRAWINGS


| SHT. NO. | DESCRIPTION |
|---|---|
| C1.01 | TITLE SHEET AND GENERAL NOTES |
| C2.01 | TYPICAL DETAILS |
| C3.01 | SITE DEMOLITION PLAN |
| C4.01 | PRECISE GRADING PLAN |
| C4.02 | PRECISE GRADING PLAN |
| C5.01 | UTILITY PLAN |


## CALIFORNIA CODE OF REGULATIONS:

### LIST OF APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

### APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

## BENCH MARK

ELEVATIONS SHOWN HEREON ARE BASED UPON LOS ANGELES COUNTY BENCHMARK MG3252, ELEVATION 323.41 FEET (NAVD 88).

DESCRIPTION:
RDBM TAG IN W CB 1FT N/O BCR @ NW COR VALLEY BLVD & WALNUT GROVE AVE.

## SITE INFORMATION

SITE NAME:
MILDRED B. JANSON ELEMENTARY SCHOOL

SITE ADDRESS:
8628 MARSHALL STREET,
ROSEMEAD, CA 91770
LOS ANGELES COUNTY

ASSESSOR'S PARCEL NO:
5390-004-901

## BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2017.50) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID BEARINGS ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWNG CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.) CONTINUOUSLY OPERATING REFERENCE STATIONS (C.O.R.S.):

C.S.R.C. RHCL:
NORTHING = 1829315.58' EASTING = 6553739.69'

C.S.R.C. BKMS:
NORTHING = 1808660.13' EASTING = 6532953.81'

THE COMBINATION FACTOR FOR THIS PROJECT WAS APPLIED AT THE FOLLOWING POINT:
NORTHING = 1849306.58' EASTING = 6537401.68'

MAPPING ANGLE = -0°02'44" SCALE FACTOR = 1.00001741

## LEGEND:

- NEW PORTABLE BUILDING
- EXISTING BUILDING
- PROPERTY LINE
- R — RIDGE LINE
- GRADE BREAK LINE
- SAWCUT LINE
- LIMITS OF BUILDING OVEREXCAVATION
- FENCE
- 320 — PROP. CONTOUR (1' INTERVAL)
- 320 — EXIST. CONTOUR (1' INTERVAL)
- XXX.XX FS — PROPOSED SPOT ELEVATION
- (XXX.XX) FS — EXISTING SPOT ELEVATION
- ADA PATH OF TRAVEL
- NEW ASPHALT CONCRETE PAVEMENT, TRAFFIC INDEX=4.5
- NEW ASPHALT CONCRETE PAVEMENT, TRAFFIC INDEX=7.0
- NEW CONCRETE PAVEMENT
- NEW LANDSCAPING

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

FILE No.: 19-91 A#: 03-123590

Revisions
02/27/2026 BID SET

REGISTERED PROFESSIONAL ENGINEER
EDWARD S. MELO
No.C80534
STATE OF CALIFORNIA
EXP. 03/31/25
FOR BRANDOW & JOHNSTON


BRANDOW & JOHNSTON
STRUCTURAL CIVIL ENGINEERS
700 S. FLOWER ST. #1200, LOS ANGELES, CA 90017
T: (213) 596-4500
WWW.BJSCE.COM
EST. 1945


MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770


NAC ARCHITECTURE
nacarchitecture.com
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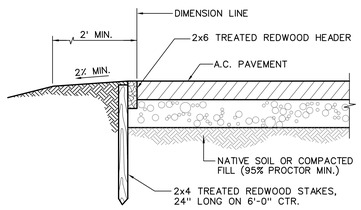

| | |
|---|---|
| B&J NO | C23-0038 |
| DRAWN | VT |
| CHECKED | EM |
| DATE | 02/27/2027 |

TITLE SHEET AND GENERAL NOTES

C1.01

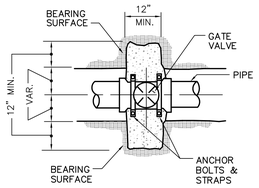
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H:\C23-0038 - NAC RUSD Janson ES\Engineering\Drawings\Portables\C1.01i.dwg Plotted On Mar 05, 2024-4:56pm by vtantcheva

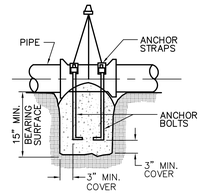



## REDWOOD HEADER DETAIL

SCALE: NO SCALE | 11

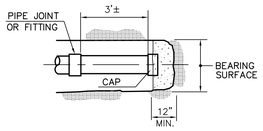



PLAN

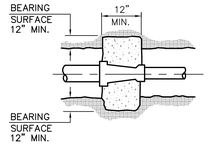



ELEVATION

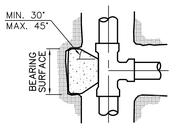
VALVE ANCHORS



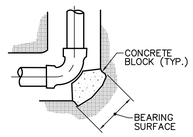

CAPPED END



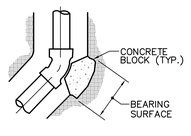

REDUCER



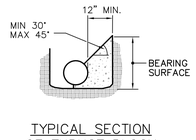

TEE




90° ELBOW




45° ELBOW




TYPICAL SECTION OF THRUST BLOCK

NOTES:

1. ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 P.S.I. AT 28 DAYS.
3. ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 1/2" DIA. & ANCHOR STRAPS SHALL BE 1/4" X 2" BAR.
4. THRUST BLOCK DESIGN IS BASED ON A PIPE CLASS 150, AND A MAXIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 P.S.F. FOR MAXIMUM SOIL BEARING VALUES OF 1000 P.S.F. INCREASE BEARING SURFACES BY A FACTOR OF 2.
5. THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCKS SHALL NOT EXCEED 1 TO 1.
6. ANCHOR BLOCKS FOR VERTICAL BENDS SHALL BE CONSTRUCTED PER SPECIAL DETAIL AS REQUIRED.
7. THRUST BLOCKS SHALL BE OF A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONE HALF PARTS SAND, AND FIVE PARTS STONE (NFPA 24 10.8.2.2).

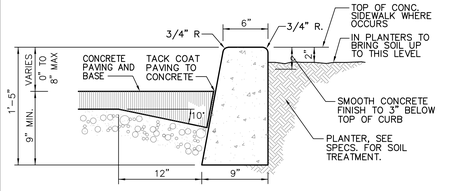
THRUST BLOCK BEARING AREAS – S.F.

| MAIN SIZE | TEE* | BEND | | | |
|---|---|---|---|---|---|
| | | 90° | 45° | 22.5° | 11.25° |
| 4" | 2 | 2 | 2 | 2 | 2 |
| 6" | 3 | 3 | 2 | 2 | 2 |
| 8" | 4 | 6 | 3 | 3 | 3 |
| 10" | 6 | 9 | 5 | 3 | 3 |
| 12" | 9 | 12 | 7 | 4 | 4 |

* INCLUDES TEES, PLUGS, CAPS, HYDRANTS & VALVES.

## THRUST AND ANCHOR BLOCK DETAILS

SCALE: NO SCALE | 7

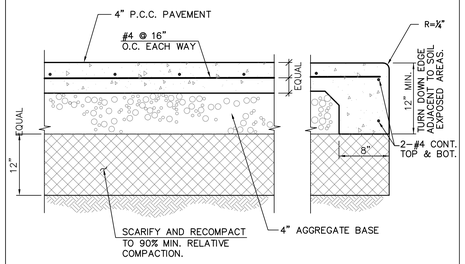



NOTES: (TYPICAL @ ALL SIMILAR CONDITIONS)

1. BOTTOM OF CURB TO BE SET ON COMPACTED SUB-BASE OR NATURAL UNDISTURBED SOIL (PER SOILS REPORT).
2. FINISH ALL EXPOSED CONCRETE SURFACES SMOOTH.
3. PROVIDE 1/2" EXPANSION JOINTS AT 25'-0" O.C. MAX. AND AT CURVES, TANGENTS AND CORNERS.
4. PORTLAND CEMENT CONCRETE, fc'=3200 psi

## CONCRETE CURB DETAIL (APWA 120-1)

SCALE: NO SCALE | 4

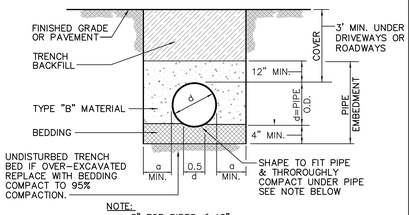



NOTES:

1 – PORTLAND CEMENT CONCRETE, fc=2500 psi, W/C RATIO 0.5 MAX.
2 – EXPANSION JOINTS–PER DETAIL 2 HEREON. SPACING – 32' O.C. OR LESS TO FIT WITH CONTROL JOINT SPACING PER DETAIL 2 HEREON.
3 – CONTROL JOINTS – PER DETAIL 2 HEREON.
4 – FINISH – MATCH EXISTING.

## PEDESTRIAN CONCRETE PAVEMENT

SCALE: NO SCALE | 1




NOTE:
a = 8" FOR PIPES ≤ 15"
a = 6" FOR PIPES > 15"

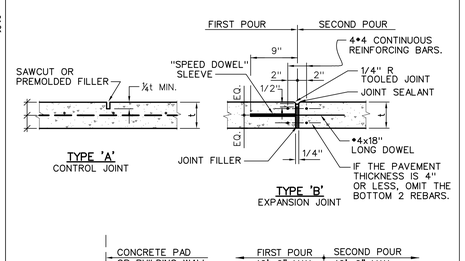
PIPE:
FOR GRAVITY FLOW SAN. SEWERS AND DRAINAGE P.V.C CONFORMING TO A.S.T.M. D–3034 MAXIMUM SDR 35, GASKETED JOINT, 15" DIA. MAXIMUM PIPE SIZE.

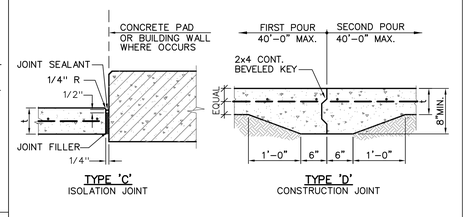
COMPACTION:
PIPE EMBEDMENT AND TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 306–12 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

BEDDING:
CLEAN COARSE SAND
BEDDING TYPE B:
SAND OR OTHER GRANULAR MATERIAL WITH SAND EQUIVALENT VALUE NOT LESS THAN 30 AND SHALL BE COMPLETED PRIOR TO PLACING THE BALANCE OF THE BACKFILL. THE MAXIMUM ROCK SIZE FOR BEDDING TYPE B SHALL BE 3/4" IN THE GREATEST DIMENSION. NESTING OF ROCKS WILL NOT BE PERMITTED.
TRENCH BACKFILL:
BACKFILL WITH ONSITE OR IMPORT SOILS TO MINIMUM 95% RELATIVE COMPACTION
TRENCH RESURFACING AT EXISTING PAVEMENT:
PER SPPWC STD. PLANS 132–3 OR 133–3 (WHICHEVER IS APPLICABLE)

## FLEXIBLE PIPE BEDDING AND TRENCH DETAIL

SCALE: NO SCALE | 5




SUGGESTED SPACING OF CONTROL JOINTS

| PAVEMENT/SLAB THICKNESS (IN) | LESS THAN 3/4 INCH AGGREGATE: SPACING (FT) | LARGER THAN 3/4 INCH AGGREGATE: SPACING (FT) |
|---|---|---|
| 3 | 4 | 6 |
| 4 | 8 | 10 |
| 5 | 10 | 13 |
| 6 | 12 | 15 |
| 7 | 14 | 18 |
| 8 | 16 | 20 |
| 9 | 18 | 23 |
| 10 | 20 | 25 |

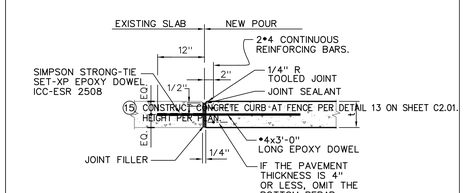
* GIVEN SPACING ALSO APPLY TO THE DISTANCE FROM CONTROL JOINTS TO PARALLEL ISOLATION JOINTS OR TO PARALLEL EXPANSION JOINTS.

NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT AND JOINT FILLER.
2. PLACE 18" LONG #4 DOWELS AT 24" O.C. (TYPE 'B' ONLY)
3. SPACING OF JOINTS PER TABLE HEREON.
4. STOP SLAB REINFORCING AT EXPANSION JOINT.

## CONSTRUCTION JOINTS

SCALE: NO SCALE | 2

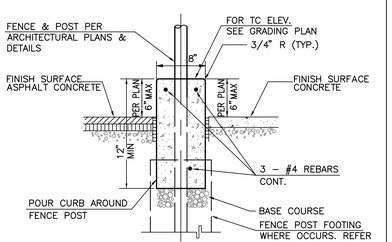



NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT AND JOINT FILLER.
2. PLACE THE DOWELS AT 24" O.C. (2 DOWELS MIN.)
3. 12" MAX. BETWEEN THE CONCRETE EDGE AND THE FIRST DOWEL.

## CONSTRUCTION JOINT AT (E) CONC.

SCALE: NO SCALE | 3

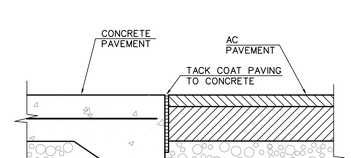



NOTES: (TYPICAL @ ALL SIMILAR CONDITIONS)

1. BOTTOM OF CURB TO BE SET ON SUBGRADE SOIL COMPACTED TO 95% STANDARD PROCTOR.
2. FINISH ALL EXPOSED CONCRETE SURFACES SMOOTH.
3. PROVIDE 1/2" EXPANSION JOINTS AT 25'–0" O.C. MAX. AND AT CURVES, TANGENTS AND CORNERS.
4. PORTLAND CEMENT CONCRETE, fc'=3200 psi

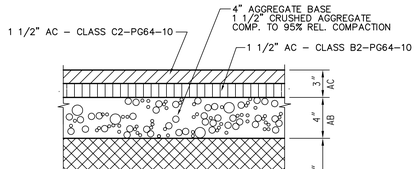
## CONCRETE CURB AT FENCE

SCALE: NO SCALE | 13

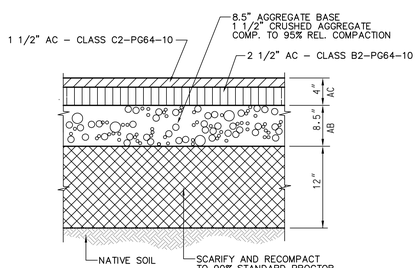



## AC TO CONCRETE PAVEMENT TRANSITION

SCALE: NO SCALE | 9



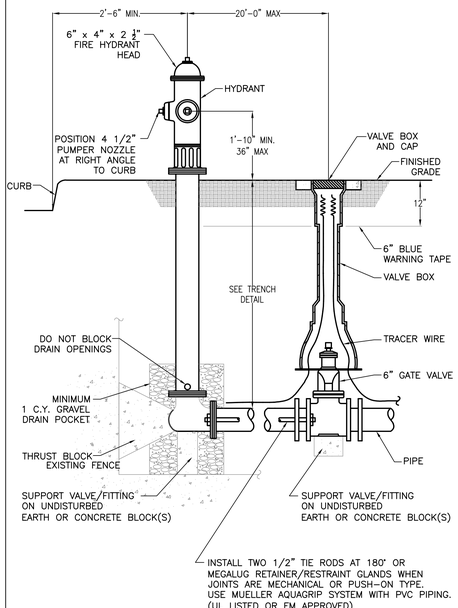

TRAFFIC INDEX TI=4.5




TRAFFIC INDEX TI=7.0

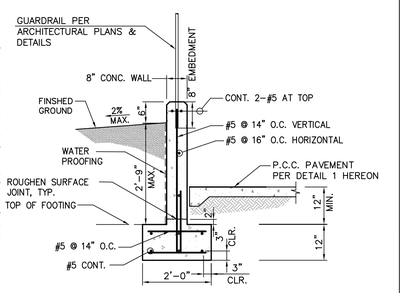
## AC PAVEMENT DETAIL

SCALE: NO SCALE | 8




## FIRE HYDRANT DETAIL

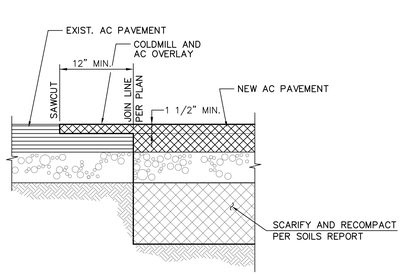
SCALE: NO SCALE | 6




NOTE:
1 – PORTLAND CEMENT CONCRETE, fc=3200 psi

## 8" RETAINING WALL

SCALE: NO SCALE | 14




## AC PAVEMENT JOINT DETAIL

SCALE: NO SCALE | 10

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FILE No.: 19-91 A#: 03-123590

Revisions
1 05/09/25 REVISION 1
2 01/30/26 REVISION 2
02/27/2026 BID SET

REGISTERED PROFESSIONAL ENGINEER EDWARD S. KEY No.C80534 Civil State of California
EXP. 03/31/27
FOR BRANDOW & JOHNSTON

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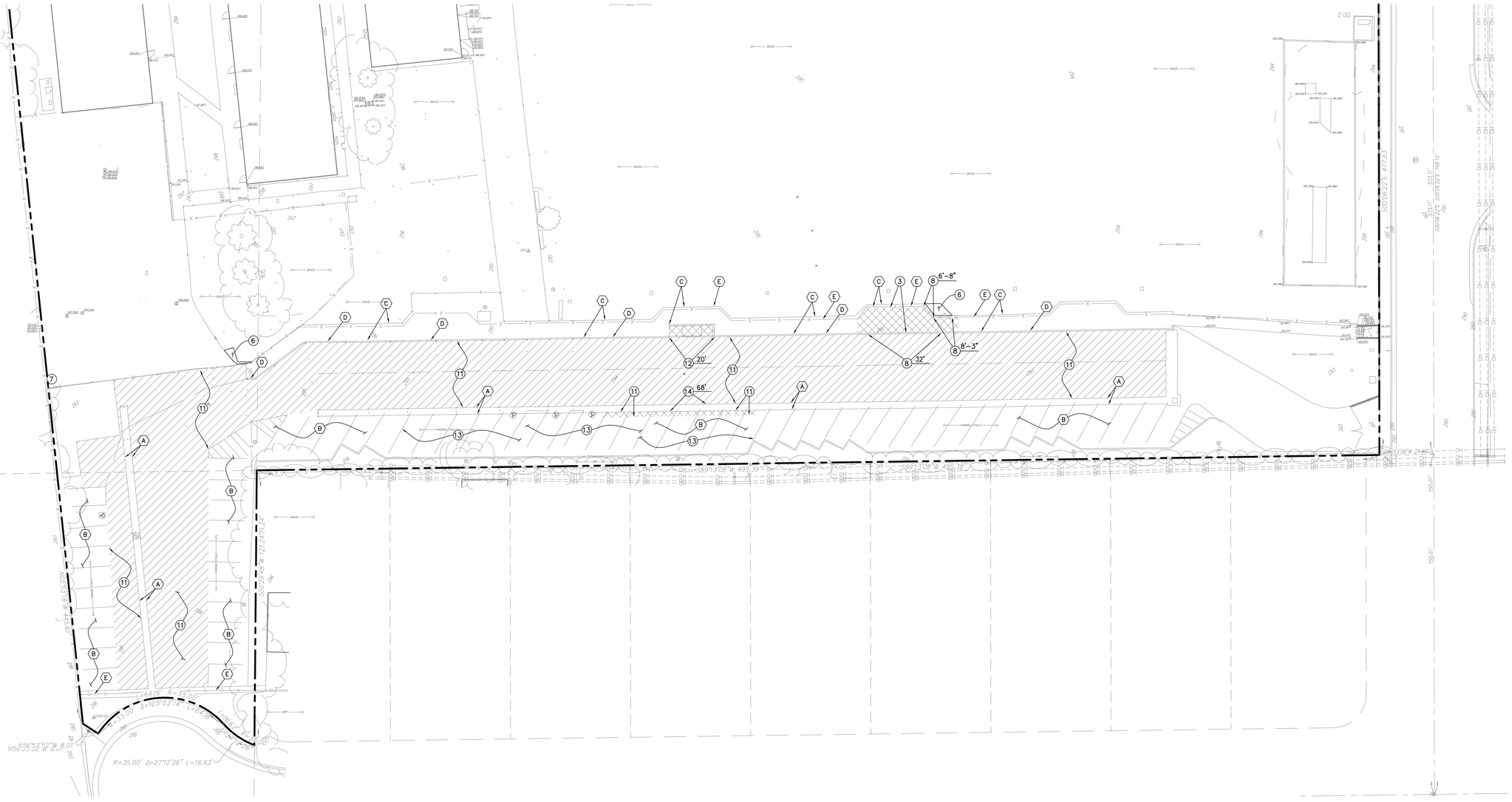
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TYPICAL DETAILS

C2.01

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## LEGEND:

- LIMITS OF DEMOLITION
- EXISTING BUILDING
- PROPERTY LINE
- SAWCUT LINE
- REMOVE EXIST. AC PAVEMENT
- REMOVE EXIST. PCC PAVEMENT
- REMOVE EXIST. LANDSCAPE

## NOTE:

1. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

## DEMOLITION NOTES:

1. REMOVE EXISTING PORTABLE BUILDING. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING PORTABLE BUILDING RAMP. REFER TO ARCHITECTURAL PLANS.
3. REMOVE EXISTING CONCRETE PAVEMENT AND FULL BASE.
4. REMOVE EXISTING PLAYGROUND EQUIPMENT. REFER TO ARCHITECTURE PLANS.
5. REMOVE EXISTING CONCRETE STAIRS.
6. REMOVE EXISTING LANDSCAPE/DIRT.
7. REMOVE EXISTING HANDRAIL PER ARCHITECTURE PLANS.
8. REMOVE EXISTING FENCE, POST, FOOTING.
9. REMOVE EXISTING STORAGE SHED.
10. REMOVE CURB.
11. REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND FULL BASE.
12. REMOVE EXISTING CONCRETE CURB RAMP.
13. REMOVE EXISTING PARKING STRIPING.
14. REMOVE EXISTING CONCRETE GUTTER.

## SALVAGE NOTES:

- (A) PROTECT EXISTING CONCRETE GUTTER.
- (B) PROTECT EXISTING ASPHALT CONCRETE PAVEMENT.
- (C) PROTECT EXISTING CONCRETE PAVEMENT.
- (D) PROTECT EXISTING CONCRETE CURB.
- (E) PROTECT EXISTING FENCE/GATE.

NORTH

# SITE DEMOLITION PLAN

0' 10' 20' 40'

GRAPHIC SCALE : 1"=20'

FILE No.: 19-91 A#: 03-123590

Revisions

1 05/09/25 REVISION 1

2 01/30/26 REVISION 2

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SITE DEMOLITION PLAN

C3.01

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## LEGEND:

- NEW PORTABLE BUILDING
- EXISTING BUILDING
- PROPERTY LINE
- RIDGE LINE
- GRADE BREAK LINE
- SAWCUT LINE
- LIMITS OF BUILDING OVEREXCAVATION
- FENCE
- EXISTING FENCE
- PROP. CONTOUR (1' INTERVAL)
- EXIST. CONTOUR (1' INTERVAL)
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- ADA PATH OF TRAVEL
- NEW ASPHALT CONCRETE PAVEMENT, TRAFFIC INDEX=4.5
- NEW ASPHALT CONCRETE PAVEMENT, TRAFFIC INDEX=7.0
- NEW CONCRETE PAVEMENT
- NEW LANDSCAPING

## CONSTRUCTION NOTES:

1. NEW RELOCATABLE CLASSROOM PER ARCHITECTURAL PLANS.
2. CONSTRUCT CONCRETE PAVEMENT PER DETAIL 1 ON SHEET C2.01.
3. CONSTRUCT CONCRETE CURB PER DETAIL 4 ON SHEET C2.01.
4. LANDSCAPED AREA PER LANDSCAPEING PLANS.
5. CONSTRUCT NEW TO EXISTING CONCRETE TRANSITION PER DETAIL 3 ON SHEET C2.01.
6. CONSTRUCT ASPHALT CONCRETE PAVEMENT PER DETAIL 8 ON SHEET C2.01. TRAFFIC INDEX PER PLAN.
7. CONSTRUCT ASPHALT CONCRETE TO CONCRETE PAVEMENT TRANSITION PER DETAIL 9 ON SHEET C2.01.
8. CONSTRUCT NEW TO EXISTING ASPHALT CONCRETE TRANSITION PER DETAIL 10 ON SHEET C2.01.
9. INSTALL REDWOOD HEADER. REFER TO DETAIL 11 ON SHEET C2.01.
10. CONCRETE CURB RAMP PER ARCHITECTURAL PLANS & DETAILS.
11. PARKING STALLS RESTRIPING PER ARCHITECTURAL PLANS & DETAILS.
12. RESTRIPING PER ARCHITECTURAL PLANS & DETAILS.
13. INSTALL ACCESSIBLE CONCRETE GUTTER PER DETAIL 12 ON SHEET C2.01.
14. INSTALL NEW CHAIN LINK FENCE PER ARCHITECTURAL PLANS.
15. CONSTRUCT CONCRETE CURB AT FENCE PER DETAIL 13 ON SHEET C2.01. HEIGHT PER PLAN.
16. CONSTRUCT CONCRETE CLASSROOM STAGE SEAT PER ARCHITECTURAL PLANS.
17. CONSTRUCT DECOMPOSED GRANITE PER LANDSCAPING PLANS.
18. GARDEN PLANTER PER LANDSCAPING PLANS.
19. SINK PER ARCHITECTURAL PLANS.
20. CONSTRUCT CONCRETE STAIRS PER DETAIL 1 ON SHEET C4.01. REFER TO ARCHITECTURAL PLANS FOR HANDRAILS.
21. CONSTRUCT 6 FT CONCRETE WALL PER ARCHITECTURAL PLANS.
22. SHADE STRUCTURE COLUMN PER ARCHITECTURAL PLANS.
23. CONSTRUCT RETAINING WALL PER DETAIL 14 ON SHEET C2.01.
24. ADJUST TO GRADE IF REQUIRED.
25. CONSTRUCT CONCRETE SUNKEN CLASSROOM SEAT PER ARCHITECTURAL PLANS.

NOTES
1. FOR PAVEMENT AND STRUCTURE OVER-EXCAVATION REQUIREMENTS REFER TO THE GEOTECHNICAL REPORT AND GENERAL NOTES ON SHEET C1.01.
2. RE-STRIPE THE REPLACED ASPHALT CONCRETE TO MATCH EXISTING STRIPING.

NORTH

# PRECISE GRADING PLAN

0' 5' 10' 20'
GRAPHIC SCALE : 1"=10'

FILE No.: 19-91 A#: 03-123590

Revisions
1 05/09/25 REVISION 1
2 01/30/26 REVISION 2
02/27/2026 BID SET

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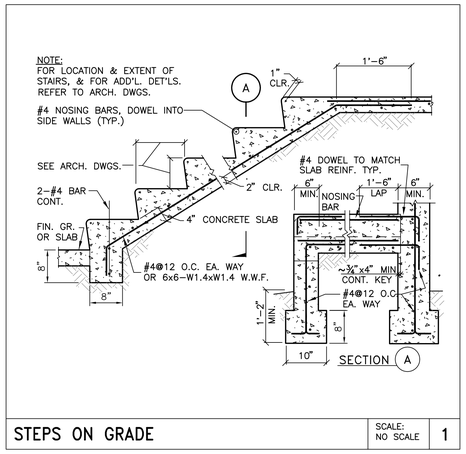
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PRECISE GRADING PLAN

C4.01

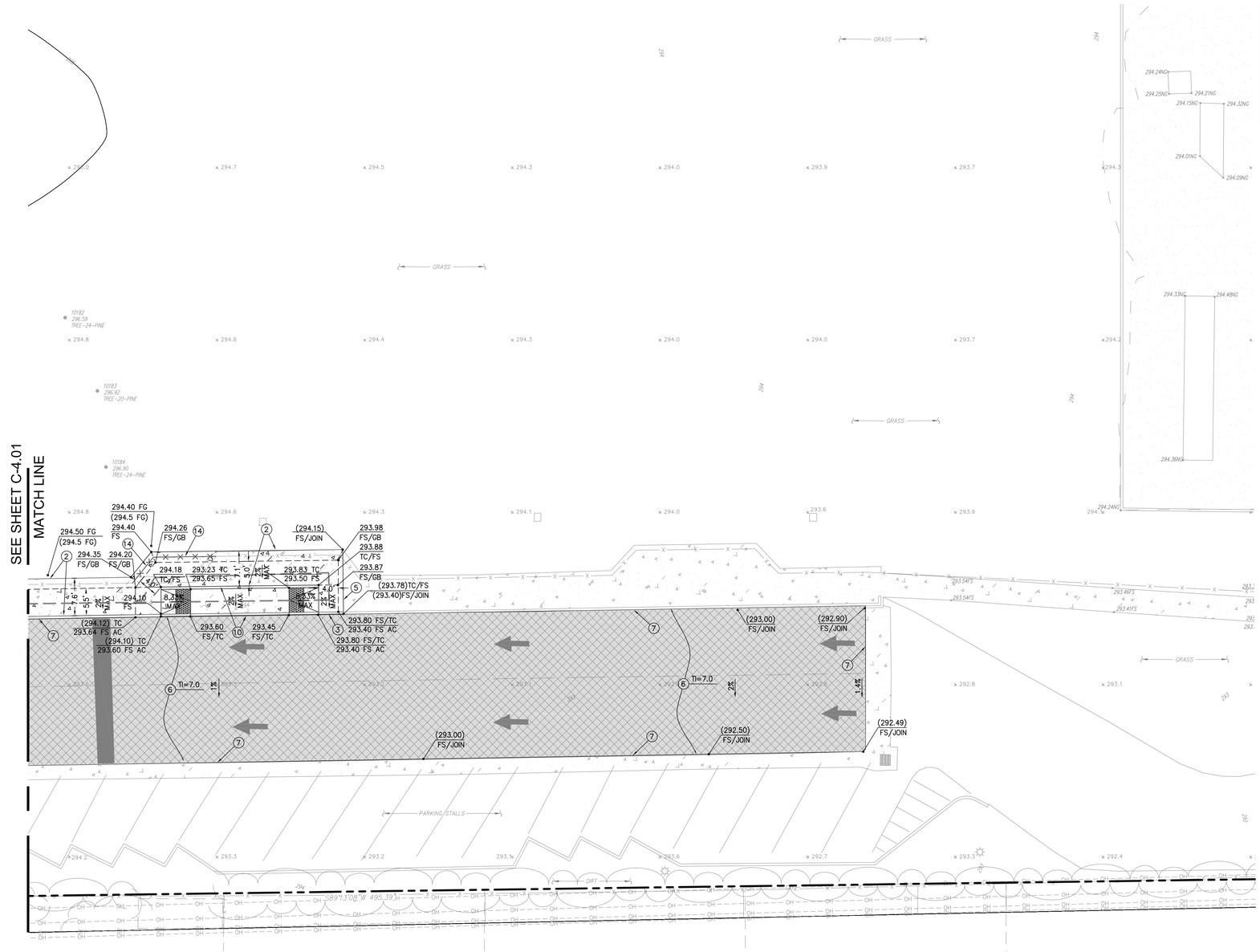
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STEPS ON GRADE

SCALE: NO SCALE | 1




## LEGEND:

- NEW PORTABLE BUILDING
- EXISTING BUILDING
- PROPERTY LINE
- RIDGE LINE
- GRADE BREAK LINE
- SAWCUT LINE
- LIMITS OF BUILDING OVEREXCAVATION
- FENCE
- EXISTING FENCE
- PROP. CONTOUR (1' INTERVAL)
- EXIST. CONTOUR (1' INTERVAL)
- PROPOSED SPOT ELEVATION
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- NEW ASPHALT CONCRETE PAVEMENT, TRAFFIC INDEX=7.0
- NEW CONCRETE PAVEMENT
- NEW LANDSCAPING

## CONSTRUCTION NOTES:

1. NEW RELOCATABLE CLASSROOM PER ARCHITECTURAL PLANS.
2. CONSTRUCT CONCRETE PAVEMENT PER DETAIL 1 ON SHEET C2.01.
3. CONSTRUCT CONCRETE CURB PER DETAIL 4 ON SHEET C2.01.
4. LANDSCAPING PER ARCHITECTURAL PLANS.
5. CONSTRUCT NEW TO EXISTING CONCRETE TRANSITION PER DETAIL 3 ON SHEET C2.01.
6. CONSTRUCT ASPHALT CONCRETE PAVEMENT PER DETAIL 8 ON SHEET C2.01. TRAFFIC INDEX PER PLAN.
7. CONSTRUCT ASPHALT CONCRETE TO CONCRETE PAVEMENT TRANSITION PER DETAIL 9 ON SHEET C2.01.
8. CONSTRUCT NEW TO EXISTING ASPHALT CONCRETE TRANSITION PER DETAIL 10 ON SHEET C2.01.
9. INSTALL REDWOOD HEADER. REFER TO DETAIL 11 ON SHEET C2.01.
10. CONCRETE CURB RAMP PER ARCHITECTURAL PLANS & DETAILS.
11. PARKING STALLS RESTRIPING PER ARCHITECTURAL PLANS & DETAILS.
12. RESTRIPING PER ARCHITECTURAL PLANS & DETAILS.
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21. CONSTRUCT 6 FT CONCRETE WALL PER ARCHITECTURAL PLANS.
22. SHADE STRUCTURE COLUMN PER ARCHITECTURAL PLANS.
23. CONSTRUCT RETAINING WALL PER DETAIL 14 ON SHEET C2.01.
24. ADJUST TO GRADE IF REQUIRED.
25. CONSTRUCT CONCRETE SUNKEN CLASSROOM SEAT PER ARCHITECTURAL PLANS.

NOTES
1. FOR PAVEMENT AND STRUCTURE OVER-EXCAVATION REQUIREMENTS REFER TO THE GEOTECHNICAL REPORT AND GENERAL NOTES ON SHEET C1.01.
2. RE-STRIPE THE REPLACED ASPHALT CONCRETE TO MATCH EXISTING STRIPING.

NORTH

# PRECISE GRADING PLAN

0' 5' 10' 20'

GRAPHIC SCALE : 1"=10'

FILE No.: 19-91 A#: 03-123590

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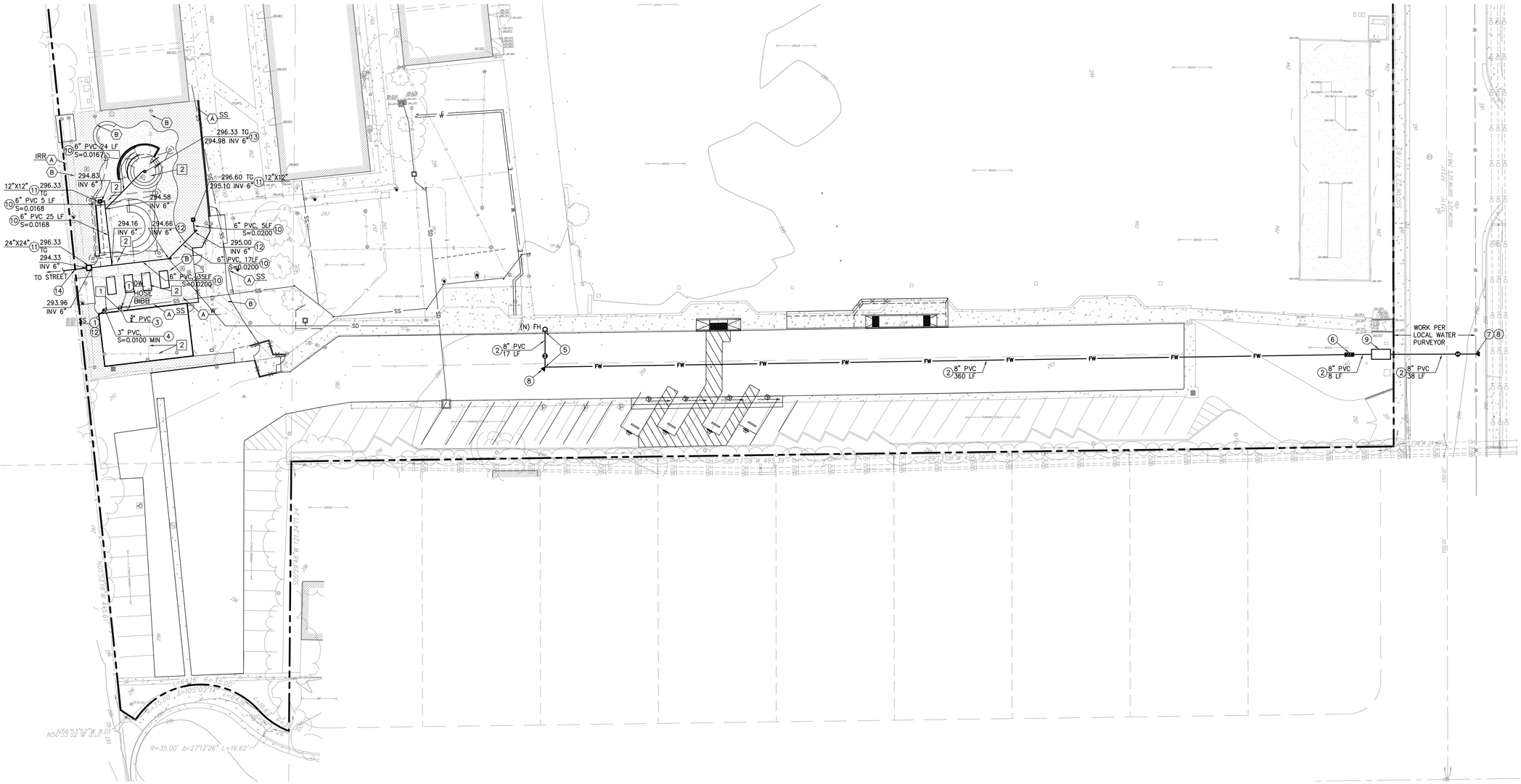

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PRECISE GRADING PLAN

C4.02

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## UTILITY PROTECTION NOTES:

(A) PROTECT EXISTING WET UTILITY IN PLACE. KEEP THE UTILITY LINE OPERATIONAL AT ALL TIMES. COORDINATE ANY NECESSARY INTERRUPTIONS WITH THE SCHOOL.

(B) PROTECT EXISTING DRY UTILITY IN PLACE. KEEP THE UTILITY LINE OPERATIONAL AT ALL TIMES. COORDINATE ANY NECESSARY INTERRUPTIONS WITH THE SCHOOL.

## UTILITY DEMOLITION NOTES:

1 REMOVE EXISTING WET UTILITY LINE AND ALL APPURTENANCES. COORDINATE THE DISCONNECTION WITH THE SCHOOL AND/OR UTILITY COMPANY PRIOR TO COMMENCE DEMOLITION.

2 RE-ROUTE EXISTING UTILITY LINE AND APPURTENANCES OUTSIDE THE NEW IMPROVEMENT LIMITS.

## UTILITY CONSTRUCTION NOTES:

1. ESTABLISH BUILDING POINT OF CONNECTION. UTILITY PER PLAN. SEE PLUMBING PLANS FOR INTERIOR CONTINUATION.
2. INSTALL PVC FIRE WATER LINE, PER AWWA C-900, CLASS 200 W/D.I. FITTINGS. SIZE & LENGTH PER PLAN. SEE DETAIL 5 ON SHEET C2.01 FOR TRENCH.
3. INSTALL PVC DOMESTIC WATER LINE, PER AWWA C-900, CLAS 200 W/D.I. FITTINGS. SIZE & LENGTH PER PLAN. SEE DETAIL 5 ON SHEET C2.01 FOR TRENCH.
4. INSTALL PVC SCHEDULE 40 SANITARY SEWER PIPE W/ PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN. SEE DETAIL 5 ON SHEET C2.01 FOR TRENCH.
5. INSTALL FIRE HYDRANT AND VALVE ASSEMBLY PER DETAIL 6 ON SHEET C2.01.
6. INSTALL 8" DOUBLE CHECK DETECTOR ASSEMBLY, MODEL ZURN 350ASTDA OR APPROVED EQUAL. INSTALL TAMPER SWITCH AND CHAIN & LOCK BOX TO SECURE THE VALVES IN OPEN POSITION.
7. CONNECT TO EXISTING PUBLIC WATER MAIN. COORDINATE DETAILS AND REQUIREMENTS WITH LOCAL WATER PURVEYOR.
8. INSTALL THRUST BLOCK PER DETAIL 7 ON SHEET C2.01.
9. UNDERGROUND WATER METER VAULT TO BE INSTALLED BY THE LOCAL WATER PURVEYOR.
10. INSTALL PVC SDR 35 STORM DARIN PIPE W/ PUSH-ON JOINTS. SIZE, LENGTH, & SLOPE PER PLAN. SEE DETAIL 5 ON SHEET C2.01 FOR TRENCH.
11. INSTALL PRECAST DRAINAGE INLET PER BROOKS OR APPROVED EQUAL. SIZE PER PLAN. WHERE THE OUTLET PIPE INVERT OCCURS ABOVE THE BOTTOM OF THE INLET, CONTRACTOR TO FILL THE INLET WITH CONCRETE TO THE INVERT ELEVATION AND AVOID SUMP CONDITION.
12. CONSTRUCT CLEANOUT PER DETAIL 1 HEREON.
13. INSTALL 9"X9" CATCH BASIN WITH NDS999 GRATE (ADA COMPLIANT) PER NDS OR APPROVED EQUAL.
14. CONSTRUT CURB DRAIN PER SPPWC 150-4, CASE II INLET, N=2. PER SEPARATE PERMIT.

## LEGEND:

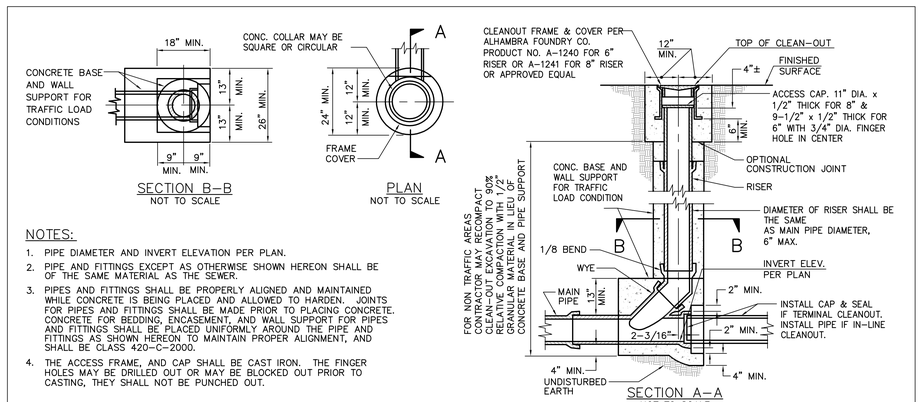
- NEW PORTABLE BUILDING
- EXISTING BUILDING
- PROPERTY LINE
- FW — PROPOSED FIRE WATER LINE
- W — PROPOSED DOMESTIC WATER LINE
- SS — PROPOSED SANITARY SEWER LINE

NORTH

# SITE UTILITY PLAN

0' 10' 20' 40'

GRAPHIC SCALE : 1"=20'







## CLEANOUT DETAIL

SCALE: NO SCALE | 1

NOTES:

1. PIPE DIAMETER AND INVERT ELEVATION PER PLAN.
2. PIPE AND FITTINGS EXCEPT AS OTHERWISE SHOWN HEREON SHALL BE OF THE SAME MATERIAL AS THE SEWER.
3. PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASEMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT, AND SHALL BE CLASS 420-C-2000.
4. THE ACCESS FRAME, AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OUT OR MAY BE BLOCKED OUT PRIOR TO CASTING, THEY SHALL NOT BE PUNCHED OUT.

FILE No.: 19-91 A#: 03-123590

Revisions

1 05/09/25 REVISION 1

2 01/30/26 REVISION 2

02/27/2026 BID SET

REGISTERED PROFESSIONAL ENGINEER EDWARD S. WEI No.C80534 STATE of CALIFORNIA

EXP. 03/31/27 FOR BRANDOW & JOHNSTON


BRANDOW & JOHNSTON
STRUCTURAL-CIVIL ENGINEERS
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EST. 1945

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| | |
|---|---|
| BJ NO | C23-0038 |
| DRAWN | VT |
| CHECKED | EM |
| DATE | 02/27/2027 |

SITE UTILITY PLAN

C5.01

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H:\C23-0038 - NAC RUSD Janson ES\Engineering\Drawings\Portables\C5.01ut.dwg Plotted On Feb 27, 2026-10:07am by vtantcheva

## LAYOUT AND MATERIAL NOTES

1. VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND CIVIL ENGINEER'S DRAWINGS.

2. VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS.

3. TAKE ALL DIMENSIONS FROM FACE OF CURB, WALL OR BUILDING OR TO CENTERLINE OF COLUMNS OR TREES UNLESS OTHERWISE NOTED. ALL MEASUREMENTS TO DESIGNATED CENTERLINE(S).

4. TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, WORK LINE, FACE OF BUILDING, FACE OF WALL, OR CENTERLINE.

5. ALL DIMENSIONS TAKEN TO CENTERLINE OF BUILDING COLUMN SHALL MEAN THE FIRST ROW OF COLUMNS CLOSEST TO THE FACE OF THE BUILDING. SEE ARCHITECT'S DRAWINGS FOR CORRESPONDING COLUMN LINES.

6. ALL WORK PERFORMED WITHIN THE DRIP LINE OF TREES DESIGNATED "EXISTING TREES TO REMAIN" SHALL BE HAND LABOR.

7. ALL ANGLES TO BE 90 DEGREES AND ALL LINES OF PAVING AND FENCING TO BE PARALLEL UNLESS NOTED OTHERWISE. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS.

8. HOLD TOPS OF WALLS AND FENCES LEVEL UNLESS NOTED OTHERWISE.

10. REFERENCE TO NORTH REFERS TO NORTH ARROW, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.

11. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.

12. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

13. WHERE NOT SHOWN ON LANDSCAPE DRAWINGS, SEE CIVIL ENGINEER'S DRAWINGS FOR ROADWAY CENTERLINES, BUILDING SETBACKS AND BENCH MARKS.

14. ALL CONCRETE SLABS AND RAMP OR STEP FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS AND FOOTINGS USING BARS OF THE SAME SIZE AND SPACING UNLESS NOTED OTHERWISE. SEE JOINTING DETAILS.

15. THE CONTRACTOR TO PROVIDE MOCKUPS FOR EACH PAVING AND WALL MATERIAL SPECIFIED ON THE DRAWINGS. PAVING AND WALL CONSTRUCTION SHALL NOT BEGIN UNTIL EACH MOCKUP HAS BEEN REVIEWED AND APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT. APPROVED MOCKUPS SHALL BE LOCATED ON SITE WHERE THEY ARE NOT DISTURBED UNTIL SUBSTANTIAL COMPLETION OF THE PROJECT.

16. THE CONTRACTOR TO REVIEW IRRIGATION PLANS FOR SLEEVE LOCATIONS PRIOR TO CONSTRUCTION OF PAVING.

17. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.

18. RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES.

## ABBREVIATIONS

| ABBREVIATION | EXTENSION |
|---|---|
| ADJ. | ADJACENT (LAYOUT, MEASUREMENT) |
| ALIGN | ALIGN |
| BS | BOTTOM OF STEP//BOTTOM SURFACE |
| BW | BOTTOM OF WALL |
| CIP or C.I.P. | CAST-IN-PLACE (CONCRETE APPLICATIONS) |
| CIVIL | CIVIL ENGINEER |
| CL | CENTERLINE (LAYOUT, MEASUREMENT) |
| CONC. | CONCRETE |
| DIA | DIAMETER (LAYOUT, MEASUREMENT) |
| EJ | EXPANSION JOINT (CONCRETE APPLICATIONS) |
| EQ | EQUAL (LAYOUT, MEASUREMENT) |
| FG or F.G. | FINISHED GRADE (TOP SOIL GRADIENT) |
| FS or F.S. | FINISHED SURFACE (HARD SURFACES) |
| HP | HIGH POINT (GRADIENT) |
| IE | INVERT ELEVATION |
| LA or L.A. | LANDSCAPE ARCHITECT |
| LOW or L.O.W. | LIMIT OF WORK |
| LP | LOW POINT (GRADIENT) |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| NIC | NOT IN SCOPE |
| NTS or N.T.S. | NOT TO SCALE |
| OC or O.C. | ON-CENTER (LAYOUT, MEASUREMENT) |
| OD or O.D. | OUTSIDE DIAMETER (LAYOUT, MEASUREMENT) |
| PA or P.A. | PLANTING AREA |
| PERF. | PERFORATED |
| POB or P.O.B. | POINT OF BEGINNING (LAYOUT, MEASUREMENT) |
| PL | PROPERTY LINE |
| R | RADIUS (LAYOUT, MEASUREMENT) |
| REF | REFERENCE OR REFER TO |
| REINF. | REINFORCEMENT |
| S.E. | STRUCTURAL ENGINEER |
| SPECS | CONTRACT SPECIFICATIONS |
| S/S | STAINLESS STEEL |
| TBD | TO BE DETERMINED |
| TC | TOP OF CURB (GRADIENT ELEVATION) |
| TG | TOP OF GRATE (GRADIENT ELEVATION) |
| TS | TOP OF SURFACE |
| TSS | TOP OF STRUCTURAL SLAB |
| TW | TOP OF WALL |
| TF | TOP OF FENCE |
| TYP | TYPICAL |
| WL | WATER LEVEL |

## GRADING NOTES

1. FOR EXISTING TOPOGRAPHY INCLUDING GRADES, UTILITIES, PROPERTY LINES, LIMITS OF ROADWAYS, CURBS AND GUTTERS, EXISTING TREES, ETC., REFER TO THE CIVIL DRAWINGS, ENTITLED FOR PASADENA UNIFIED SCHOOL DISTRICT.

2. VERIFY CORRECT PLACEMENT BY ARCHITECT OF SLAB PENETRATIONS FOR ON STRUCTURE DRAINS.

3. ALL FINISHED GRADES SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. SET FLOW LINES ACCURATELY AND PROVIDE A MINIMUM 2% AND A MAXIMUM 50% GRADIENT UNLESS OTHERWISE NOTED.

4. MAXIMUM SLOPE OF LAWN TO BE 8:1 WITHIN AREA DESIGNATED AS "MOWN LAWN".

5. HOLD FINISHED GRADES FOR ALL SODDED LAWN AREAS BELOW TOP OF ADJACENT PAVEMENTS, CURBS OR HEADERS, AS FOLLOWS:

SODDED AREAS: 1.5 INCHES

6. HOLD FINISHED GRADES FOR SHRUB AND GROUDCOVER AREAS 2 INCHES BELOW TOP OF ADJACENT PAVEMENT, CURBS, OR HEADERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

7. GRADUALLY ROUND OFF TOPS AND TOES OF ALL PLANTED SLOPES TO PRODUCE A SMOOTH AND NATURAL APPEARING TRANSITION BETWEEN RELATIVELY LEVEL AREAS AND SLOPES.

8. INSTALL EROSION CONTROL FABRIC ON ALL SLOPES 2:1 OR GREATER AS SHOWN ON THE DRAWINGS AFTER ACCEPTANCE BY LANDSCAPE ARCHITECT OF COMPLETED FINE GRADING.

9. GENERAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF SLAB PENETRATIONS FOR DRAINAGE STRUCTURES WITH MECHANICAL CONTRACTOR.

## PLANTING NOTES

1. PROVIDE MATCHING SIZES AND FORMS FOR EACH SPECIES OF TREE INSTALLED AS SHOWN ON DRAWINGS. ADJUST SPACING AS NECESSARY, SUBJECT TO REVIEW BY THE LANDSCAPE ARCHITECT.

2. PROVIDE MATCHING SIZES AND FORMS FOR ALL HEDGE PLANTINGS. SPACE EQUALLY (ON GRID) (TRIANGULARY) AS SHOWN.

3. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL OR PAVING.

4. FORM 30 INCH WATERING AROUND ALL TREES NOT INSTALLED IN LAWN OR PAVED AREAS. FILL BASIN WITH (2 INCH LAYER OF WOOD CHIPS) (1-1/2 INCH LAYER OF FIR BARK).

5. EQUALLY SPACE VINES WHERE PLANTED AGAINST WALLS OR FENCES. SEE DRAWINGS FOR QUANTITY AND APPROXIMATE SPACING.

6. EACH LOCATION OF ALL TREES SHALL BE APPROVED BY LANDSCAPE ARCHITECT PROIR TO FINAL INSTALLATION.

7. EXACT PLACEMENT OF HEADERS WILL BE REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.

8. PROVIDE AN ALLOWANCE OF 5 PERCENT OF THE TOTAL LINEAL FOOTAGE OF HEADER TO BE FURNISHED AND INSTALLED DURING PROGESS OF WORK AS MAY BE DIRECTED BY THE LANDSCAPE ARCHITECT, IN ADDITION TO ALL HEADERS INDICATED ON DRAWINGS.

9. PLANT NAMES ARE ABBREVIATED ON THE DRAWINGS. SEE PLANT LIST FOR KEY AND CLASSIFICATION.

10. IN ADDITION TO QUANTITIES OF THESE TREES GIVEN, SUPPLY 2 PERCENT OF THE TOTAL NUMBER OF TREES OR A MINIMUM OF 1 TREE IN EACH SPECIES FOR DESTRUCTIVE INSPECTION. THE TREES TO BE SO INSPECTED WILL BE RANDOMLY SELECTED BY THE LANDSCAPE ARCHITECT UPON DELIVERY AT THE SITE, AND PRIOR TO ACCEPTANCE OF PLANT MATERIALS.

11. A MINIMUM OF 2-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURN AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.

12. FOR SOILS LESS THAN 6% ORGANIC MATTER IN TOP 6 INCHES OF SOIL, COMPOST AT RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO DEPTH OF SIX INCHES INTO THE SOIL.

NOTES:

1) RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES.

2) A MINIMUM OF 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURN AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.

3) FOR SOILS LESS THAN 6% ORGANIC MATTER IN TOP 6 INCHES OF SOIL, COMPOST AT RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO DEPTH OF SIX INCHES INTO THE SOIL.

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

Tina Chee, landscape architect, 09/05/2024

## LANDSCAPE DRAWINGS


| | |
|---|---|
| L0.00 | LANDSCAPE NOTES AND SCHEDULES |
| L0.01 | MATERIAL PALETTE |
| L0.02 | PLANTING PALETTE |
| L1.10 | MATERIAL PLAN |
| L1.11 | HYDROZONE PLAN |
| L2.10 | ENLARGEMENT GEO PLAN _PLANTING BOUNDARY |
| L2.11 | ENLARGEMENT GEO PLAN_STEPPED SEATING |
| L3.10 | ENLARGEMENT PLANTING PLAN |
| L3.11 | ENLARGEMENT PLANTING PLAN |
| L4.00 | LANDSCAPE ELEVATIONS |
| L5.00 | LANDSCAPE DETAILS |
| L5.01 | LANDSCAPE DETAILS |
| LI1.01 | IRRIGATION PLAN |
| LI2.01 | IRRIGATION LEGEND AND NOTES |
| LI3.01 | IRRIGATION DETAILS |
| LI3.02 | IRRIGATION DETAILS |


## TABLE OF AREAS

| | |
|---|---|
| TOTAL LOT AREA | 8,191 SF |
| PROPOSED OPEN SPACE: | 5,494 SF |
| PROPOSED PLANTED AREA | 2,506 SF |
| PERCENTAGE OF OPEN SPACE PLANTED | 43% |

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT
TINA CHEE & LIC. #5124
Signature 11/30/2026
Renewal Date 01/30/2026
Date
STATE OF CALIFORNIA


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NAC NO 161-23078
DRAWN
CHECKED
DATE 02/27/2027

LANDSCAPE NOTES & SCHEDULES

L0.00

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| MATERIAL LEGEND | | | |
|---|---|---|---|
| SYMBOL | ITEM | AREA / QTY | COLOR/FINISH |
| | MULCH | 2,543 SF | DARK BROWN 3" DEEP |
| | STABILIZED DG | 2,215 SF | DESERT GOLD |
| | CONCRETE | 631 SF | UNCOLORED CONCRETE SRI 0.39 |
| | SHADE STRUCTURE | 1,066 SF | REFER TO MANUFACTURER |
| | CONCRETE BENCH | 3 | REFER TO MANUFACTURER |
| | LANDSCAPE BOULDERS | 13 | REFER TO MANUFACTURER |

DAVIS COLORS

SETTING THE STANDARD FOR CONCRETE COLORS

3700 E. Olympic Blvd. Los Angeles, Calif 90023-3123 Tel 800-356-4848 Tel 323-269-7311 Fax 323-269-1053

**Solar Reflectance Index (SRI) values for colored concrete**

April 4, 2014

An independent laboratory has measured the SRI values on samples of colored concrete made with Davis Colors (www.daviscolors.com). Colored concrete can contribute to LEED points, Sustainable Sites category: 7.1 Heat Island Effect, Non-Roof for New Construction, Existing Buildings, School and Core & Shell. These points can be earned by specifying materials with a Solar Reflective Index (SRI) of at least 29 when measured according to ASTM E903 or ASTM C1549.

The actual SRI value of the concrete or structure made with Davis Colors can vary significantly from these values. The SRI value depends on the lightness or darkness of the surface as well as its reflectivity and light scattering properties. This can be influenced by the base color of concrete, differences in local materials and the method of finishing. If SRI value is critical, the actual value should be measured on a job site mock-up made with materials and methods consistent with the project specification.

Solar reflectance measurements were made with a portable reflectometer in accordance with ASTM C1549-02, "Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer." Initial Thermal Emittance was determined in accordance with ASTM C1371-04 "Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using a Portable Emissometer." Solar Reflectance Index (SRI) Values were calculated assuming standard solar and ambient conditions in accordance with ASTM E1980-01.

| Color | Solar Refl. | SRI |
|---|---|---|
| Uncolored Concrete | 0.39 | 41 |
| Willow Green | 0.46 | 52 |
| Palomino | 0.44 | 47 |
| Sangria | 0.43 | 47 |
| Sunset Rose | 0.43 | 46 |
| Sequoia Sand | 0.42 | 45 |
| Terra Cotta | 0.41 | 44 |
| Salmon | 0.42 | 44 |
| San Diego Buff | 0.41 | 44 |
| Mesa Buff | 0.41 | 43 |
| Sandstone Southern Blush | 0.41 | 43 |
| Spanish Gold | 0.41 | 43 |
| Omaha Tan | 0.40 | 42 |
| Baja Red | 0.40 | 42 |
| Santa Fe | 0.39 | 41 |
| Tile Red | 0.39 | 41 |
| Brick Red | 0.38 | 40 |
| Pebble | 0.38 | 39 |
| Harvest Gold | 0.36 | 37 |
| Canyon | 0.36 | 37 |
| Mocha | 0.36 | 36 |
| Dune | 0.35 | 36 |
| Outback | 0.35 | 36 |
| Cocoa | 0.35 | 35 |
| Rustic Brown | 0.35 | 35 |
| Yosemite Brown | 0.33 | 33 |
| Bayou | 0.33 | 32 |
| Mesquite | 0.32 | 32 |

| Color | Solar Refl. | SRI |
|---|---|---|
| Flagstone Brown | 0.32 | 31 |
| Sierra | 0.29 | 27 |
| Pewter | 0.29 | 27 |
| Green Slate | 0.28 | 26 |
| Adobe | 0.24 | 21 |
| Taupe | 0.23 | 20 |
| Silversmoke | 0.23 | 20 |
| Cobblestone | 0.21 | 18 |
| Kailua | 0.19 | 14 |
| Light Gray | 0.15 | 9 |
| Dark Gray | 0.12 | 6 |
| Graphite | 0.08 | 1 |

Davis Colors®, Concrete Palette™, Hydrolok®, Mix-Ready®, W-1000 Clear Cure & Seal®, and Color Seal it™, are brand trademarks of Huntsman Pigments Americas LLC ©2015 Reissued March 25, 2015.

DAVIS COLORS IS A BRAND OF HUNTSMAN Growing New Through Innovation

1 CONCRETE PAVING

SCALE: N.T.S.



Home / Product Categories / Decomposed Granite

**Desert Gold Decomposed Granite Fines**

IN-STORE SALE

15% Off Desert Gold Decomposed Granite Fines (Stabilized) at: Escondido, CA location

PRODUCT DESCRIPTION

Transform your outdoor space with the warmth and allure of the desert. This DG's rich golden tones kissed with a subtle shimmer, evoke images of sun-drenched landscapes.

COLOR

Warm beige with golden hues

GEOLOGY

Granitic

PRODUCT USES

- Garden pathways
- High-traffic walkways
- Ground cover
- Soil amendment
- Driveways

PRODUCT GUIDES

Stabilizer Specs & Installation

ALSO AVAILABLE IN

Crushed Rock & Gravel

SPEC SHEET

Download PDF

STORES IN-STOCK

Gardena Fullerton Fallbrook Escondido Palm Springs Pacific Beach India Chula Vista

2 STABILIZED DG

SCALE: N.T.S.

SOUTHWEST BOULDER & STONE

What can we help you w

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Home / Product Categories / Boulders

**Desert Select Boulders**

PRODUCT DESCRIPTION

A first-class boulder with a multitude of shapes and colors. Both circular and angular forms of creme beige and gray tones make this a popular choice for creating a modern look.

COLOR

Shades of gray combined with golden tan and beige

GEOLOGY

Granitic

PRODUCT USES

- Accent pieces
- Garden seating
- Retaining walls
- Water features

STORES IN-STOCK

Fallbrook India

SIZE

r



3 LANDSCAPE BOULDERS

SCALE: N.T.S.

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT TINA CHEE LIC. 6154 Signature 11/30/2026 Renewal Date 01/30/2026 Date STATE OF CALIFORNIA


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NAC NO 161-23078
DRAWN
CHECKED
DATE 02/27/2027

MATERIAL AND PLANTING PALETTE

L0.01

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# PLANTING


ENCELIA CALIFORNICA /
CALIFORNIA BRITTLEBUSH


ERIOGONUM FASCICULATUM /
CALIFORNIA BUCKWHEAT


ERIOGONUM GIGANTEUM /
ST. CATHERINE'S LACE


SOLIDAGO CALIFORNICA /
CALIFORNIA GOLDENROD


SPHAERALCEA AMBIGUA /
DESERT GLOBEMALLOW

## BUTTERFLY GARDEN


ASCLEPIAS FASCICULARIS /
NARROWLEAF MILKWEED


SALVIA 'WINIFRED GILMAN' /
WINIFRED GILMAN SAGE


VERBENA LILACINA /
LILAC VERBENA

## HUMMINGBIRD GARDEN


EPILOBIUM CANUM 'BERT'S BLUFF' /
CALIFORNIA FUCHSIA


PENSTEMON EATONII /
FIRECRACKER PENSTEMON

## EDGING


BACCHARIS PILULARIS 'TWIN PEAKS' /
TWIN PEAKS COYOTE BUSH

## HEDGE


DODONAEA VISCOSA /
GREEN HOPSEED BUSH

## TREE


PLATANUS RACEMOSA /
CALIFORNIA SYCAMORE

## TREE (ALTERNATIVE OPTIONS)


LYONOTHAMNUS FLORIBUNDUS /
CATALINA FERNLEAF TREE



QUERCUS AGRIFOLIA /
COAST LIVE OAK


QUERCUS ENGELMANNII /
ENGELMANN OAK

## PLANTING LEGEND

| SYMBOL | BOTANICAL NAME / COMMON NAME | NATIVE | SIZE | WUCOLS | QUANTITY |
|---|---|---|---|---|---|
| EC | ENCELIA CALIFORNICA / CALIFORNIA BRITTLEBUSH | YES | 5G | LOW | 5 |
| EF | ERIOGONUM FASCICULATUM / CALIFORNIA BUCKWHEAT | YES | 5G | LOW | 11 |
| EG | ERIOGONUM GIGANTEUM / ST. CATHERINE'S LACE | YES | 5G | LOW | 16 |
| SC | SOLIDAGO CALIFORNICA / CALIFORNIA GOLDENROD | YES | 5G | LOW | 6 |
| SpAm | SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW | YES | 5G | LOW | 6 |
| HUMMINGBIRD GARDEN | | | | | |
| EpCa | EPILOBIUM CANUM 'BERT'S BLUFF' / CALIFORNIA FUCHSIA | NO | 5G | LOW | 8 |
| PE | PENSTEMON EATONII / FIRECRACKER PENSTEMON | YES | 5G | LOW | 6 |
| BUTTERFLY GARDEN | | | | | |
| AF | ASCLEPIAS FASCICULARIS / NARROWLEAF MILKWEED | YES | 24" BOX | LOW | 10 |
| SA | SALVIA 'WINIFRED GILMAN' / WINIFRED GILMAN SAGE | YES | 5G | LOW | 7 |
| VL | VERBENA LILACINA / LILAC VERBENA | YES | 5G | LOW | 10 |
| EDGING | | | | | |
| BP | BACCHARIS PILULARIS 'TWIN PEAKS' / TWIN PEAKS COYOTE BUSH | YES | 5G | LOW | 97 |
| HEDGE | | | | | |
| DV | DODONAEA VISCOSA / GREEN HOPSEED BUSH | YES | 24" BOX | LOW | 49 |
| TREE | | | | | |
| | PLATANUS RACEMOSA / CALIFORNIA SYCAMORE | YES | 48" BOX | LOW | 6 |
| . | EXISTING TREE | | | | |
| TOTAL PLANTING | | 2,506 SF | | | |

FILE No.: 19-91 A#: 03-123590

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TINA CHEE & LIC. 6139
Signature
11/30/2026
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ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

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NAC NO 161-23078
DRAWN
CHECKED
DATE 02/27/2027

PLANTING PALETTE

L0.02

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| MATERIAL LEGEND | | | |
|---|---|---|---|
| SYMBOL | ITEM | AREA / QTY | COLOR/FINISH |
| | MULCH | 2,543 SF | DARK BROWN 3" DEEP |
| | STABILIZED DG | 2,215 SF | DESERT GOLD |
| | CONCRETE | 631 SF | UNCOLORED CONCRETE SRI 0.39 |
| | SHADE STRUCTURE | 1,066 SF | REFER TO MANUFACTURER |
| | CONCRETE BENCH | 3 | REFER TO MANUFACTURER |
| | LANDSCAPE BOULDERS | 13 | REFER TO MANUFACTURER |

*REFER TO ARCHITECTURE FOR SINK DETAIL

1 LANDSCAPE PLAN

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT
TINA CHEE & LIC. NO. 5124
Signature 11/30/2026
Renewal Date 01/30/2026
Date
STATE OF CALIFORNIA


LANDSCAPE ARCHITECT
TINA CHEE
LANDSCAPE STUDIO
625 SOUTH CENTRAL AVENUE
GLENDALE, CA 91204
TEL: 747-240-6926


MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8626 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770


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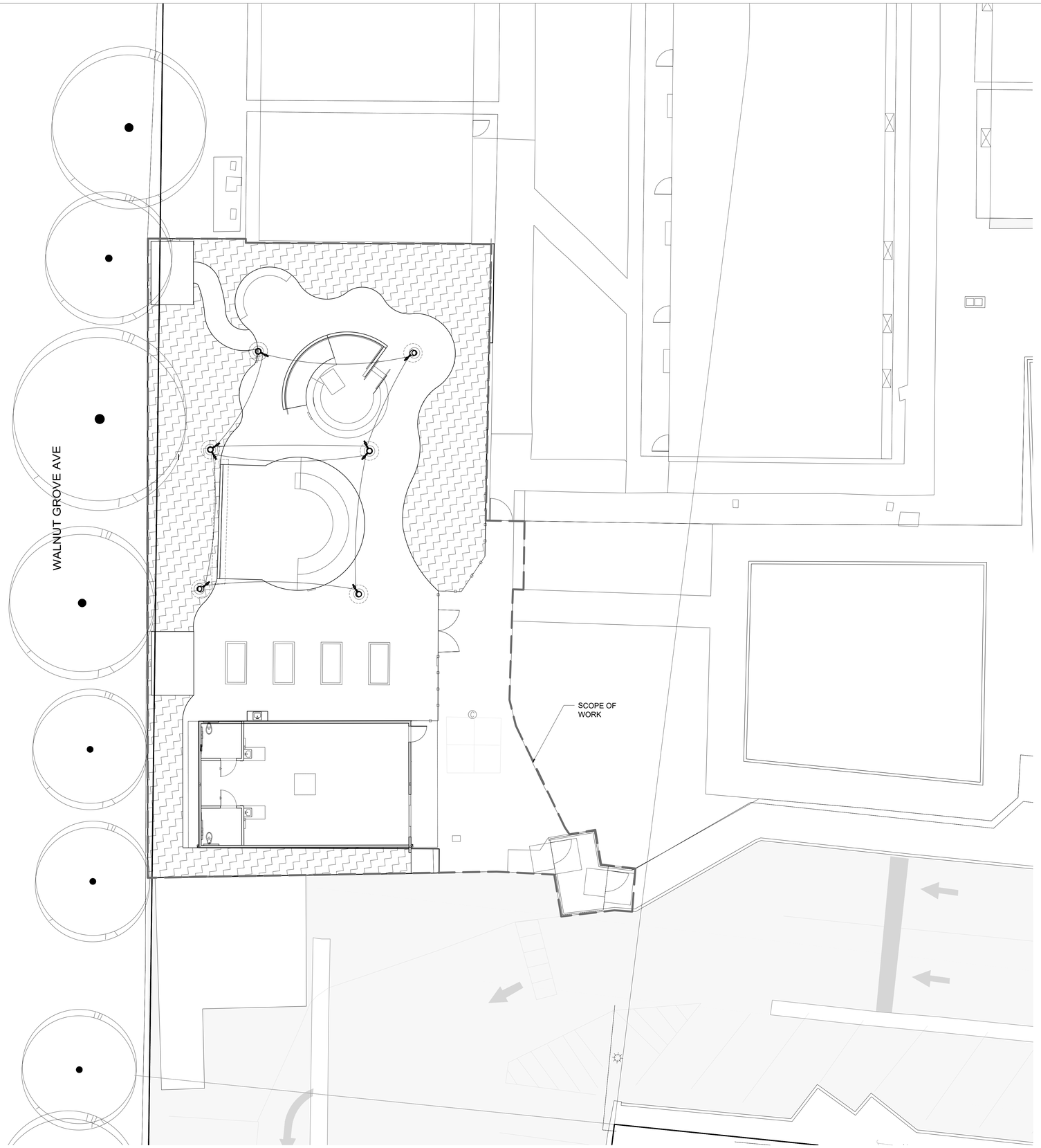

NAC NO 161-23078
DRAWN
CHECKED
DATE 02/27/2027

LANDSCAPE PLAN

L1.10

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| HYDROZONES | | |
|---|---|---|
| SYMBOL | TYPE | SF |
| | LOW | 2,506 SF |




1 HYDROZONE PLAN

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT
TINA CHEE & LIC. #5124
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA


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GLENDALE, CA 91204
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NEW RELOCATABLES
9626 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

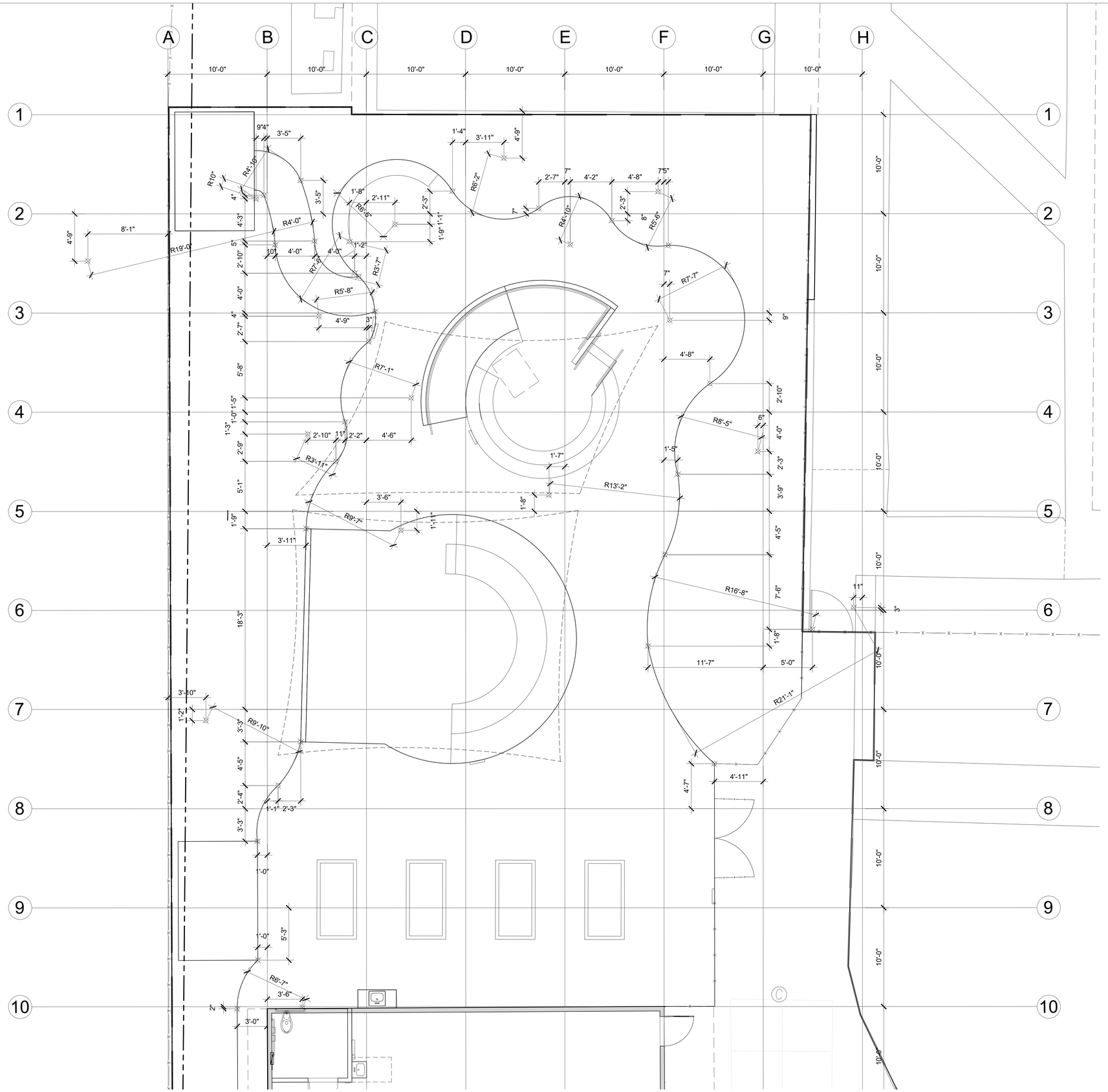

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HYDROZONE PLAN

L1.11

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0' 5' 15' 30'

SCALE: 1/4" = 1'-0"

1 LANDSCAPE PLAN

N PLAN NORTH

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

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TINA CHEE & LIC. 6139
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA


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TINA CHEE
LANDSCAPE STUDIO
625 SOUTH CENTRAL AVENUE
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TEL: 747-240-4926


# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
8625 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

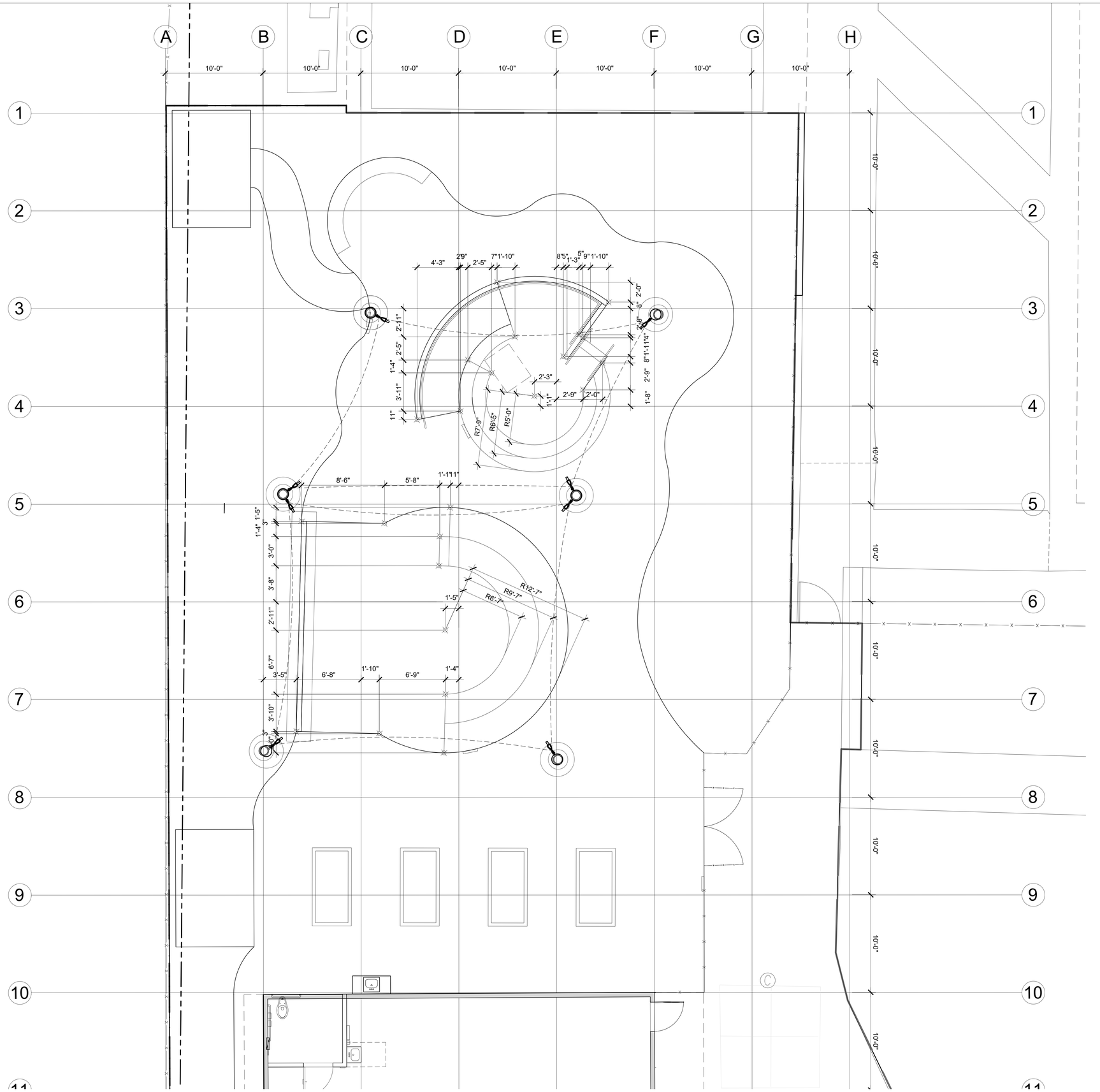

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ENLARGEMENT
GEO
PLAN_PLANTING
BOUNDARY

**L2.10**

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1 LANDSCAPE PLAN
SCALE: 1/8" = 1'-0"

N
PLAN NORTH

0' 5' 15' 30'
SCALE: 1/4" = 1'-0"

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
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| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT
TINA CHEE & LIC. 5159
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA


LANDSCAPE ARCHITECT
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LANDSCAPE STUDIO
625 SOUTH CENTRAL AVENUE
GLENDALE, CA 91204
TEL: 747-240-6926


# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
8625 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

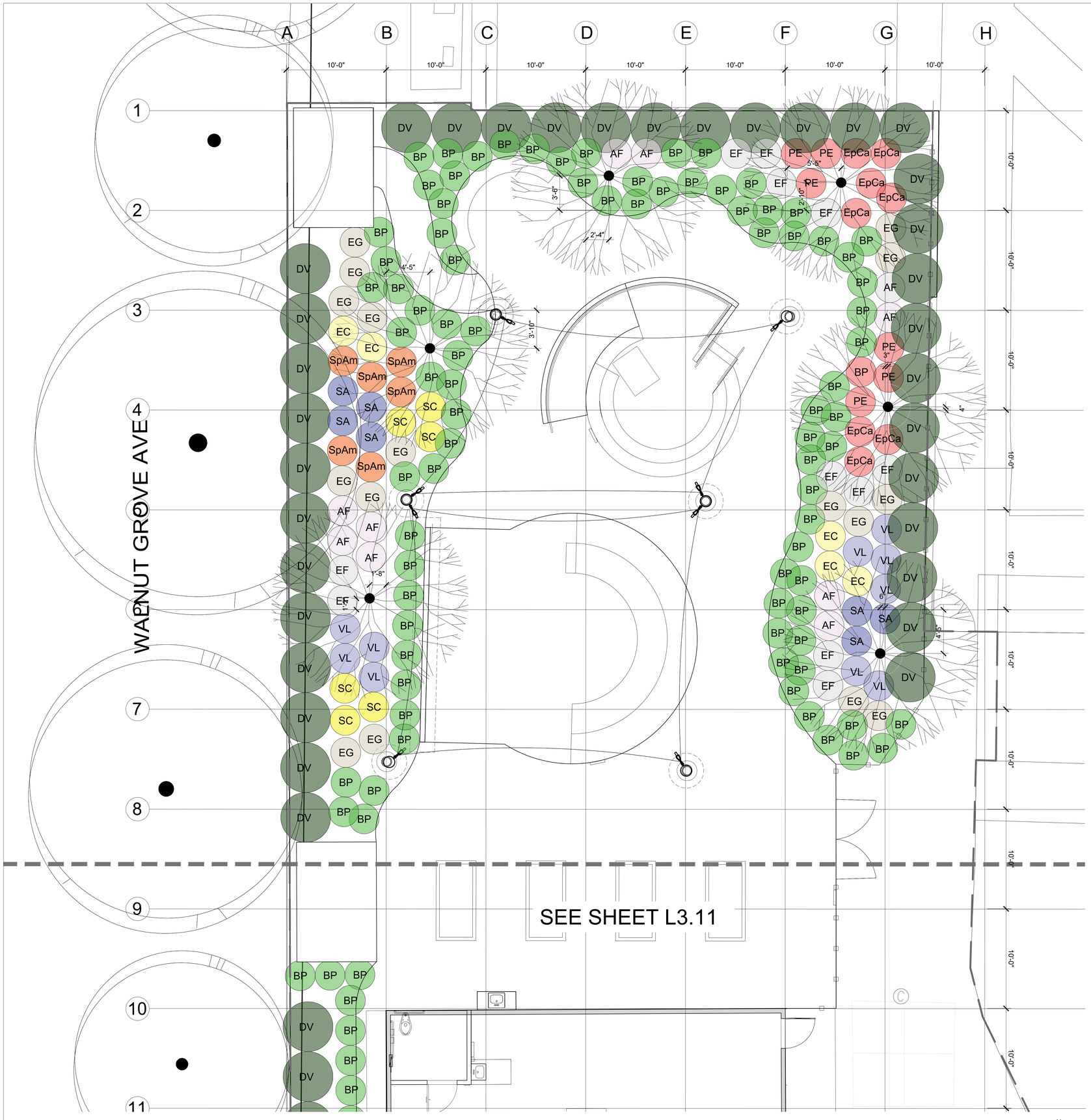

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| | |
|---|---|
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| CHECKED | |
| DATE | 02/27/2027 |

ENLARGEMENT GEO PLAN_STEPPED SEATING

**L2.11**

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## PLANTING LEGEND

| SYMBOL | BOTANICAL NAME / COMMON NAME | NATIVE | SIZE | WUCOLS | QUANTITY |
|---|---|---|---|---|---|
| EC | ENCELIA CALIFORNICA / CALIFORNIA BRITTLEBUSH | YES | 5G | LOW | 5 |
| EF | ERIOGONUM FASCICULATUM / CALIFORNIA BUCKWHEAT | YES | 5G | LOW | 11 |
| EG | ERIOGONUM GIGANTEUM / ST. CATHERINE'S LACE | YES | 5G | LOW | 16 |
| SC | SOLIDAGO CALIFORNICA / CALIFORNIA GOLDENROD | YES | 5G | LOW | 6 |
| SpAm | SPHAERALCEA AMBIGUA / DESERT GLOBEMALLOW | YES | 5G | LOW | 6 |
| HUMMINGBIRD GARDEN | | | | | |
| EpCa | EPILOBIUM CANUM 'BERT'S BLUFF' / CALIFORNIA FUCHSIA | NO | 5G | LOW | 8 |
| PE | PENSTEMON EATONII / FIRECRACKER PENSTEMON | YES | 5G | LOW | 6 |
| BUTTERFLY GARDEN | | | | | |
| AF | ASCLEPIAS FASCICULARIS / NARROWLEAF MILKWEED | YES | 24" BOX | LOW | 10 |
| SA | SALVIA 'WINIFRED GILMAN' / WINIFRED GILMAN SAGE | YES | 5G | LOW | 7 |
| VL | VERBENA LILACINA / LILAC VERBENA | YES | 5G | LOW | 10 |
| EDGING | | | | | |
| BP | BACCHARIS PILULARIS 'TWIN PEAKS' / TWIN PEAKS COYOTE BUSH | YES | 5G | LOW | 97 |
| HEDGE | | | | | |
| DV | DODONAEA VISCOSA / GREEN HOPSEED BUSH | YES | 24" BOX | LOW | 49 |
| TREE | | | | | |
| | PLATANUS RACEMOSA / CALIFORNIA SYCAMORE | YES | 48" BOX | LOW | 6 |
| · | EXISTING TREE | | | | |
| | TOTAL PLANTING | 2,506 SF | | | |

1 PLANTING PLAN

N
PLAN NORTH

0' 5' 15' 30'
SCALE: 1/4" = 1'-0"

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
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TINA CHEE & LIC. NO. 5124
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA


LANDSCAPE ARCHITECT
TINA CHEE
LANDSCAPE STUDIO
1625 SOUTH CENTRAL AVENUE
GLENDALE, CA 91204
TEL: 747-240-6926


MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
9820 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

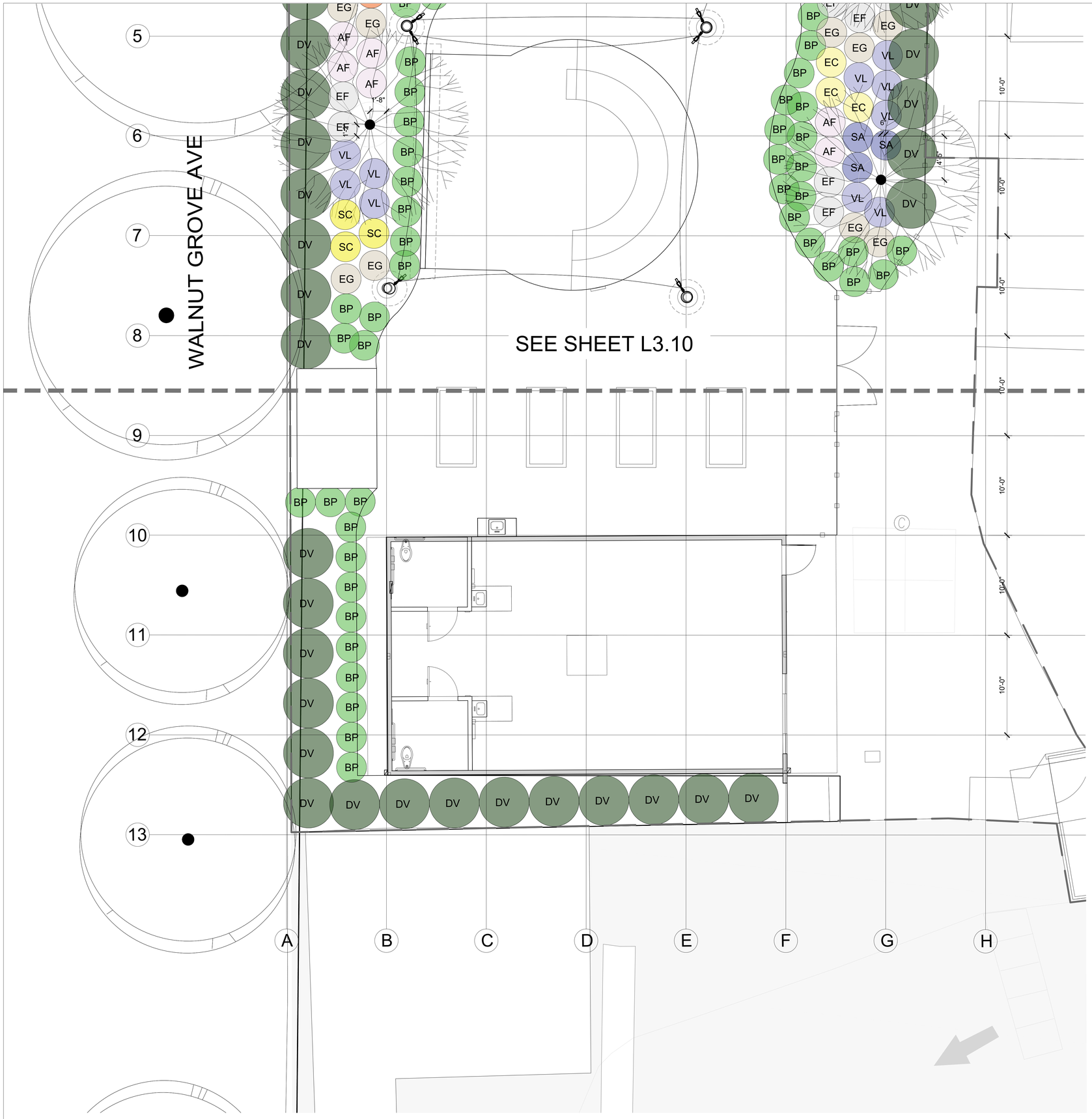

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ENLARGED PLANTING PLAN

L3.10

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## PLANTING LEGEND

| SYMBOL | BOTANICAL NAME / COMMON NAME | NATIVE | SIZE | WUCOLS | QUANTITY |
|---|---|---|---|---|---|
| EC | ENCELIA CALIFORNICA / CALIFORNIA BRITTLEBUSH | YES | 5G | LOW | 5 |
| EF | ERIOGONUM FASCICULATUM / CALIFORNIA BUCKWHEAT | YES | 5G | LOW | 11 |
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| HUMMINGBIRD GARDEN | | | | | |
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| SA | SALVIA 'WINIFRED GILMAN' / WINIFRED GILMAN SAGE | YES | 5G | LOW | 7 |
| VL | VERBENA LILACINA / LILAC VERBENA | YES | 5G | LOW | 10 |
| EDGING | | | | | |
| BP | BACCHARIS PILULARIS 'TWIN PEAKS' / TWIN PEAKS COYOTE BUSH | YES | 5G | LOW | 97 |
| HEDGE | | | | | |
| DV | DODONAEA VISCOSA / GREEN HOPSEED BUSH | YES | 24" BOX | LOW | 49 |
| TREE | | | | | |
| | PLATANUS RACEMOSA / CALIFORNIA SYCAMORE | YES | 48" BOX | LOW | 6 |
| • | EXISTING TREE | | | | |
| | TOTAL PLANTING | 2,506 SF | | | |

0' 5' 15' 30'

SCALE: 1/4" = 1'-0"

1 PLANTING PLAN

N PLAN NORTH

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
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TINA CHEE LAC 7139
Signature 11/30/2026
Renewal Date 01/30/2026
Date
STATE OF CALIFORNIA


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TINA CHEE
LANDSCAPE STUDIO
1625 SOUTH CENTRAL AVENUE
GLENDALE, CA 91204
TEL: 747-240-6926


MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8626 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

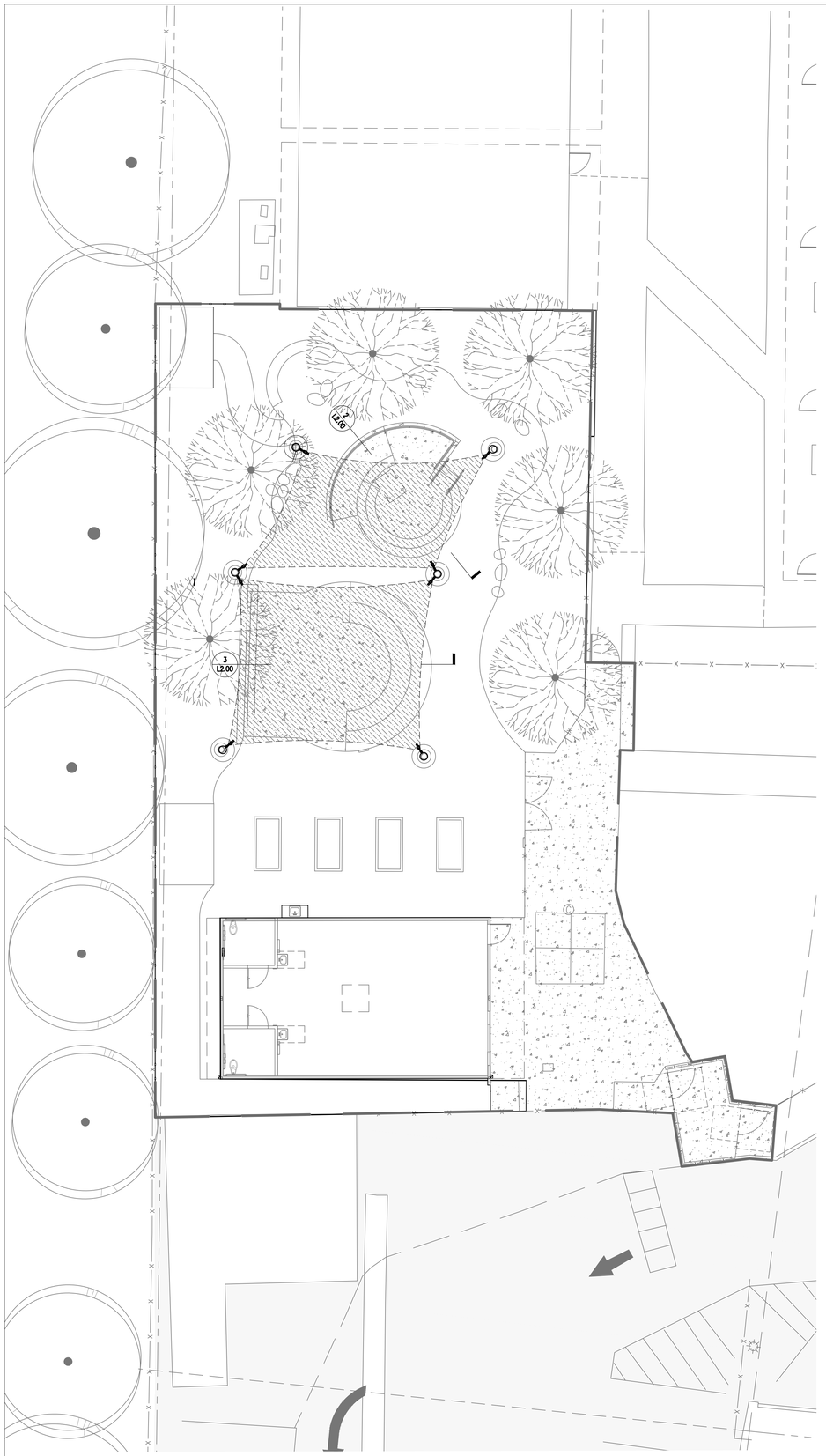

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| DATE | 02/27/2027 |

ENLARGED PLANTING PLAN

**L3.11**

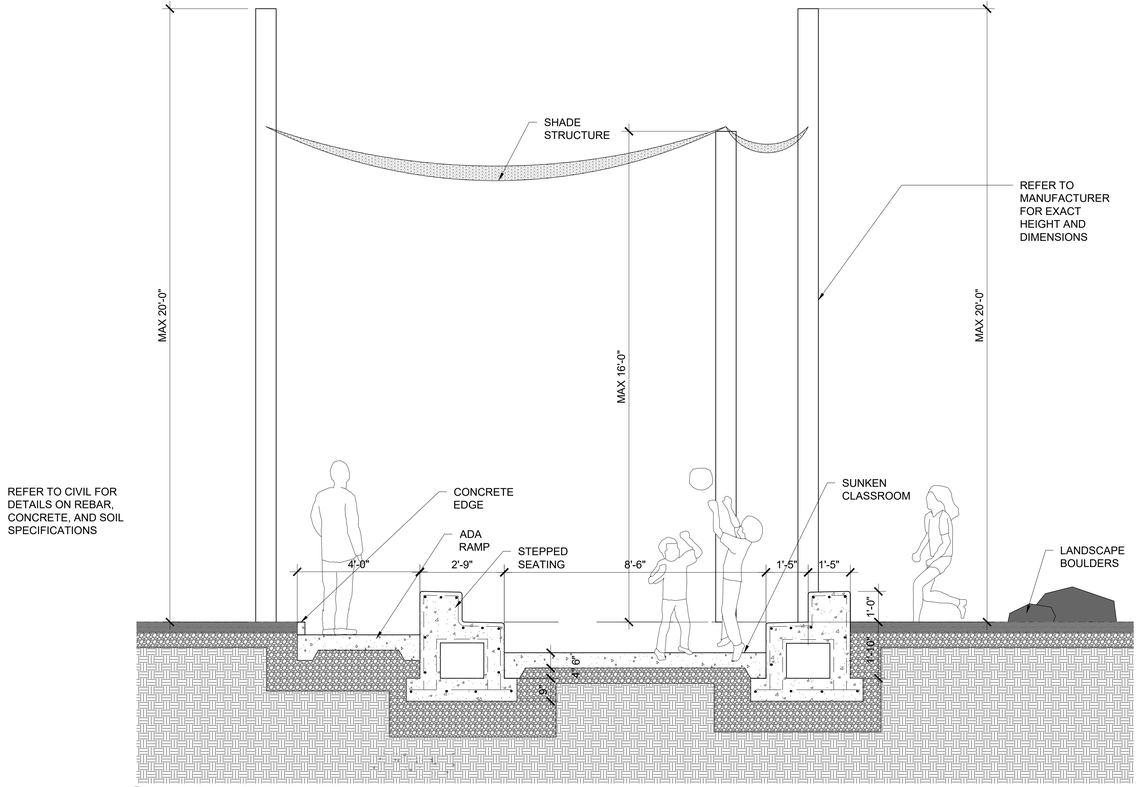
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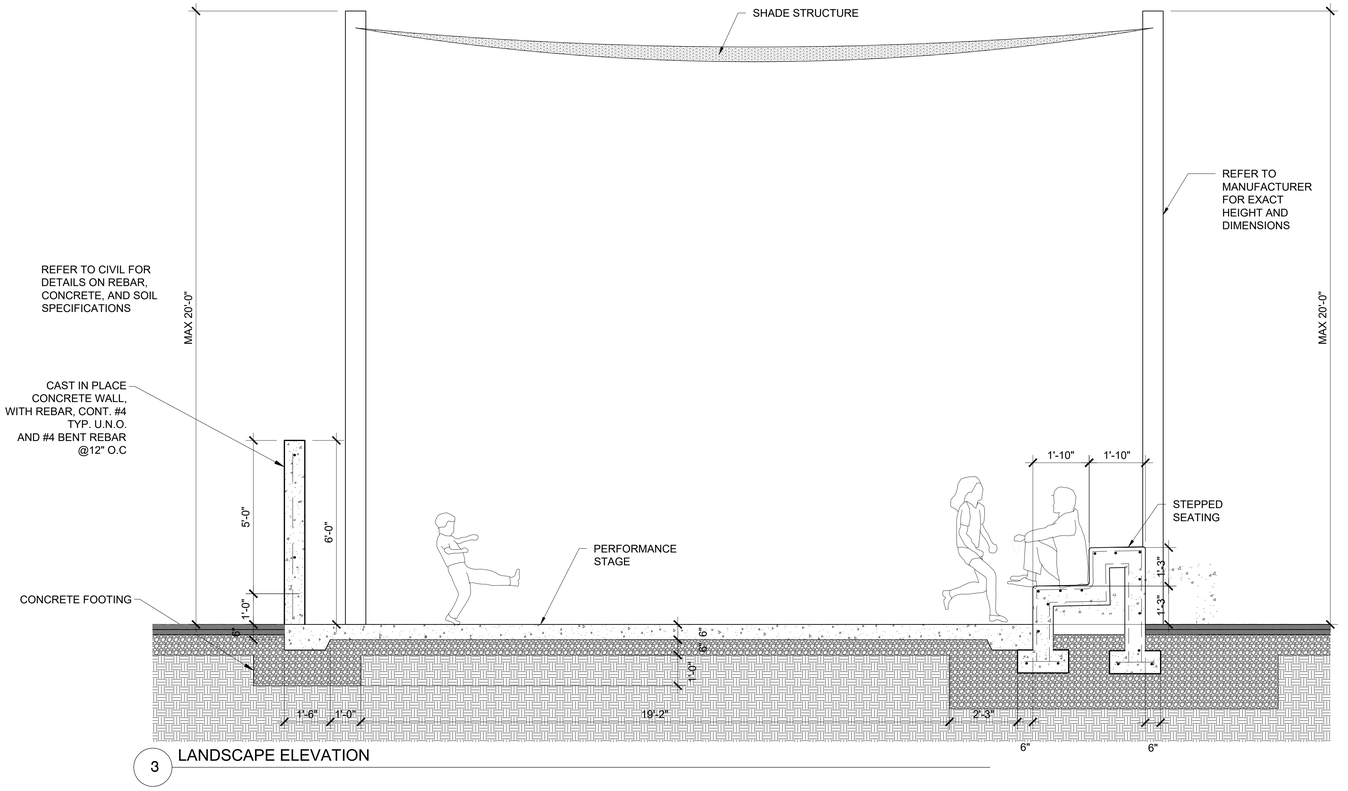

1 LANDSCAPE PLAN
SCALE: 3/16" = 1'-0"

0' 5' 15' 30'

N
PLAN NORTH




2 LANDSCAPE ELEVATION
SCALE: 1/2" = 1'-0"




3 LANDSCAPE ELEVATION

0' 2' 6' 12'

SCALE: 1/2" = 1'-0"

FILE No.: 19-91 A#: 03-123590

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TINA CHEE & J.C. TSAI
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA

LANDSCAPE ARCHITECT
TINA CHEE
LANDSCAPE STUDIO
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GLENDALE, CA 91204
TEL: 747-240-6926

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NEW RELOCATABLES
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ROSEMEAD
SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

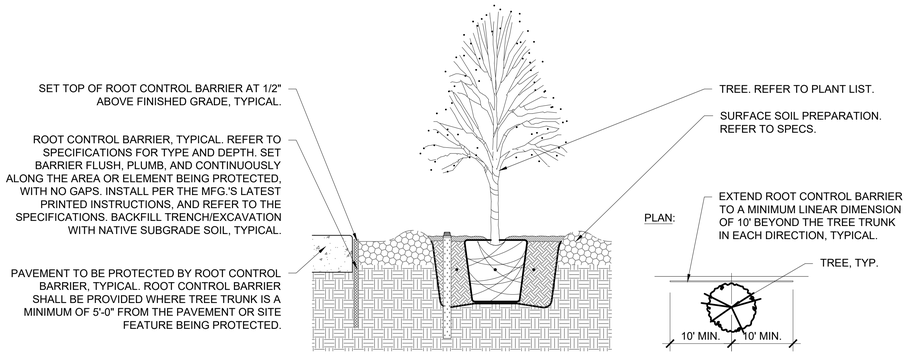
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LANDSCAPE ELEVATIONS

L4.00

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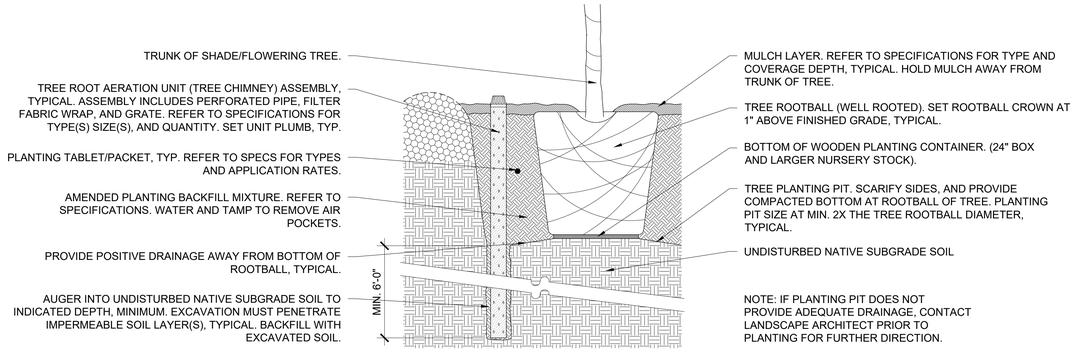

## 1 ROOT CONTROL BARRIER

SCALE: N.T.S.



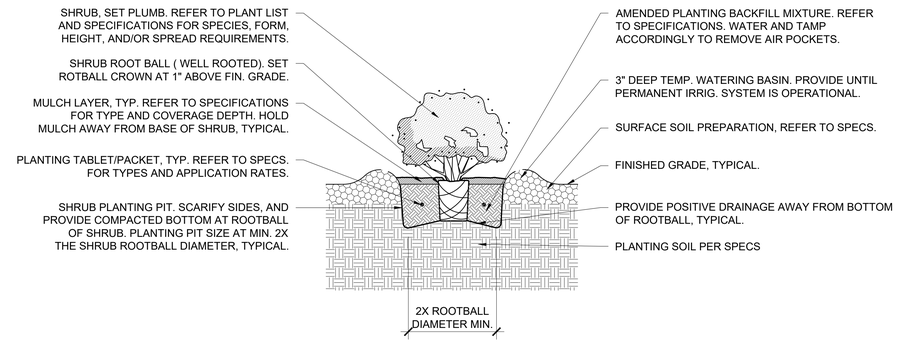

## 2 TREE STAKING

SCALE: N.T.S.



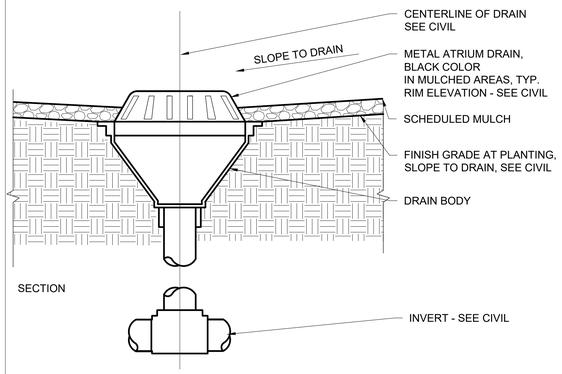

## 3 TREE ROOT AERATION UNIT (TREE CHIMNEY)

SCALE: N.T.S.




## 4 SHRUB PLANTING

SCALE: N.T.S.




## 5 PLANTING AREA DRAIN

SCALE: N.T.S.

FILE No.: 19-91 A#: 03-123590

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| 1 | 05/09/2025 | REVISION 01 |
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LICENSED LANDSCAPE ARCHITECT
TINA CHEE & LIC. 5124
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11/30/2026
Renewal Date
01/30/2026
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STATE OF CALIFORNIA

LANDSCAPE ARCHITECT
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1625 SOUTH CENTRAL AVENUE
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TEL: 747-240-6926

MILDRED B. JANSON ELEMENTARY SCHOOL
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9626 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

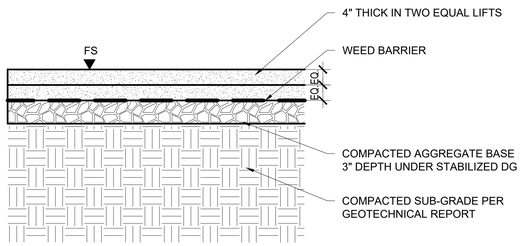
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LANDSCAPE DETAILS

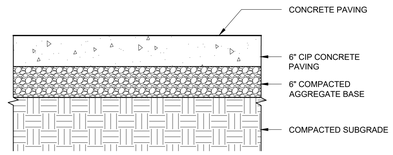
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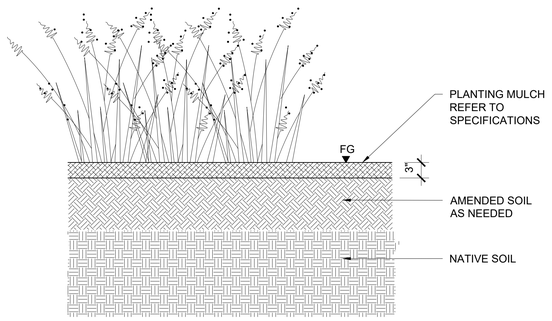

1 STABILIZED DG SURFACING SECTION

SCALE: 1"=1'-0"



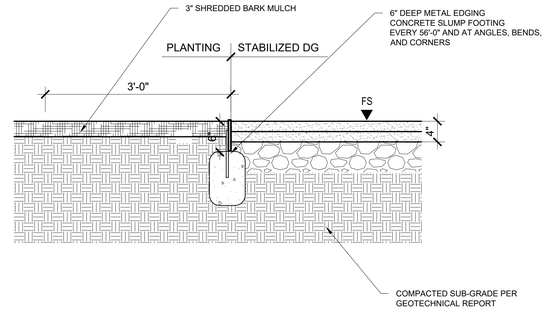

2 PEDESTRIAN CONCRETE ON GRADE

SCALE: 1" = 1'-0"



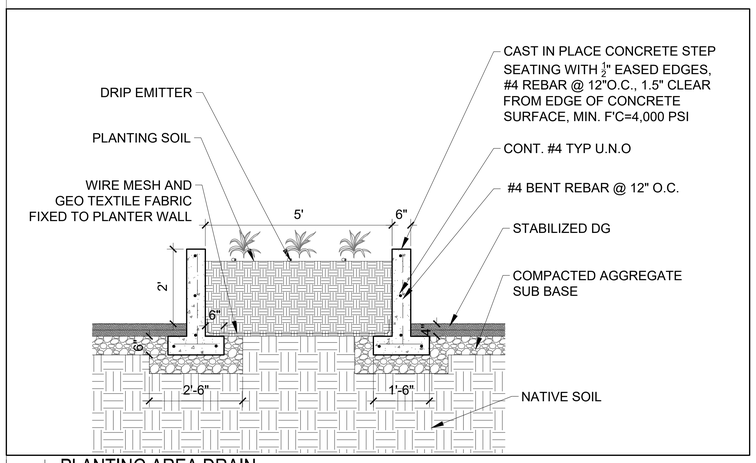

3 PLANTING MULCH SECTION

SCALE: 1"=1'-0"



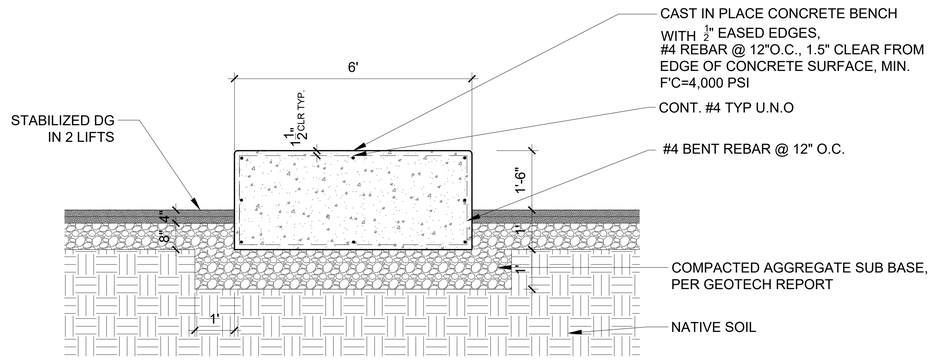

4 METAL EDGING

SCALE: 2"=1'-0"




5 PLANTING AREA DRAIN

SCALE: N.T.S.




6 CONCRETE BENCH

SCALE: 1"=1'-0"

FILE No.: 19-91 A#: 03-123590

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LICENSED LANDSCAPE ARCHITECT
TINA CHEE LIC. #6154
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA

LANDSCAPE ARCHITECT
TINA CHEE
LANDSCAPE STUDIO
1625 SOUTH CENTRAL AVENUE
GLENDALE, CA 91204
TEL: 747-240-6926

MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD
SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

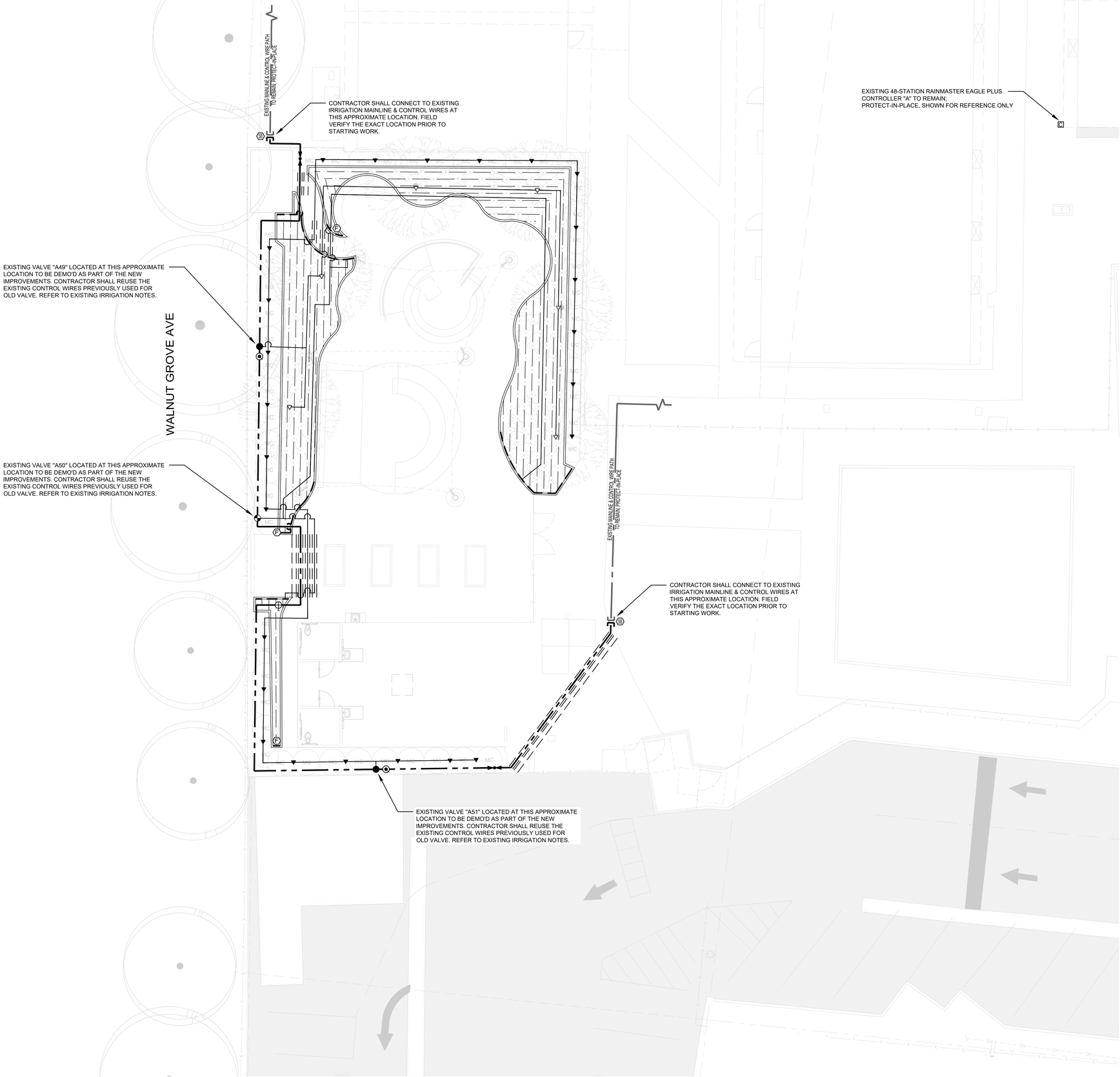
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P:323.475.8075

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DRAWN
CHECKED
DATE 02/27/2027

LANDSCAPE DETAILS

L5.01

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1 IRRIGATION PLAN
SCALE: 1/8" = 1'-0"

## EXISTING IRRIGATION NOTES

NOTE A:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE B:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE C:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK.

NOTE D:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE E:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE F:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE G:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE H:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE I:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE J:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

## IRRIGATION NOTES

NOTE A:
THESE PLANS ARE DIAGRAMMATIC. THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE B:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

2021 NAC Inc

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | Revision 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT TINA MARIE CHEE KUO 6454 STATE OF CALIFORNIA
Signature 11/30/2026
Renewal Date 01/30/2026
Date

LANDSCAPE ARCHITECT
TINA CHEE
LANDSCAPE STUDIO
1625 SOUTH CENTRAL AVENUE
GLENDALE, CA 91204
TEL: 747-240-6926

# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P:323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | |
| CHECKED | |
| DATE | 02/27/2027 |

IRRIGATION PLAN

LI1.01

## WATER EFFICIENT LANDSCAPE WORKSHEET

*This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package*

**Project Name:** Mildred B. Janson Elementary School

**Project Address:** 8628 Marshall St. Rosemead, CA 91770

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**Reference Evapotranspiration (ETo)** 50.1 In./Yr. **Residential Project?** No

| Hydrozone # / Planting Description[a] | Plant Factor | Irrigation Method[b] | Irrigation Efficiency (IE)[c] | ETAF (PF / IE) | Landscape Area (Sq. Ft.) | ETAF x Area | Estimated Total Water Use (ETWU)[d] |
|---|---|---|---|---|---|---|---|
| **Regular Landscape Areas** | | | | | | | |
| 1. Low Water Use Plantings | 0.20 | Drip | 0.81 | 0.25 | 1,403 | 351 | 10,895 |
| 2. Low Water Use Trees/Hedge | 0.20 | Bubblers | 0.75 | 0.27 | 936 | 253 | 7,850 |
| | | | | Totals: | 2,339 | 603 | |
| **Special Landscape Areas** | | | | | | | |
| | | | | Totals: | 0 | 0 | |
| | | | | Estimated Total Water Use (ETWU) Total: | | | 18,745 |
| | | | | Maximum Applied Water Allowance (MAWA)[e]: | | | 32,694 |

[a] **Hydrozone # / Planting Description**
*E.g.*
*1.) Front Lawn*
*2.) Low Water Use Plantings*
*3.) Medium Water Use Plantings*

[b] **Irrigation Method**
*Overhead Spray of*
*Drip*

[c] **Irrigation Efficiency**
*0.75 for Spray*
*0.81 for Drip*

[d] ***ETWU (Annual Gallons Required)*** = *ETo x 0.62 x ETAF x Area*
*Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.*

[e] ***MAWA (Annual Gallons Allowed)*** = *ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
*Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year,*
*LA is the total landscape area in square feet, SLA is the total special landscape area in square feet,*
*and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.*

***Evapotranspiration Adjustment Factor (ETAF) Calculations***

***This non-residential project complies with the WELO and its average ETAF is less than*** **0.45**

| Regular Landscape Areas | |
|---|---|
| Total ETAF x Area | 603 |
| Total Area | 2,339 |
| **Average ETAF** | **0.26** |

| All Landscape Areas | |
|---|---|
| Total ETAF x Area | 603 |
| Total Area | 2,339 |
| **Average ETAF** | **0.26** |

## IRRIGATION CONTROLLER RUN TIMES

| POC or Controller | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | Total / Avg. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EX. A** | ETo / Month (Inches): | 2.20 | 2.70 | 3.70 | 4.70 | 5.50 | 5.80 | 6.20 | 5.90 | 5.00 | 3.90 | 2.60 | 1.90 | **50.10** |
| | ETo / Day (Inches): | 0.07 | 0.10 | 0.12 | 0.16 | 0.18 | 0.19 | 0.20 | 0.19 | 0.17 | 0.13 | 0.09 | 0.06 | **0.14** |
| | Irrigation Days / Week: | 2 | 2 | 3 | 3 | 5 | 5 | 6 | 6 | 5 | 3 | 2 | 2 | |

| Plant / Irrig. Type | AKc | Pr Rate | IE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Low Shrubs** | 0.20 | 0.70 | 0.81 | 5.3 | 7.1 | 5.9 | 7.7 | 5.3 | 5.7 | 4.9 | 4.7 | 4.9 | 6.2 | 6.4 | 4.5 | Min./Day/Zone |
| **Drip Tubing** | Number of Zones: | | 1 | **5.3** | **7.1** | **5.9** | **7.7** | **5.3** | **5.7** | **4.9** | **4.7** | **4.9** | **6.2** | **6.4** | **4.5** | **Total Min./Day** |
| **Low Trees/Hedge** | 0.20 | 1.50 | 0.75 | 2.6 | 3.6 | 3.0 | 3.9 | 2.6 | 2.9 | 2.5 | 2.4 | 2.5 | 3.1 | 3.2 | 2.3 | Min./Day/Zone |
| **Bubblers** | Number of Zones: | | 1 | **2.6** | **3.6** | **3.0** | **3.9** | **2.6** | **2.9** | **2.5** | **2.4** | **2.5** | **3.1** | **3.2** | **2.3** | **Total Min./Day** |
| **Low Trees** | 0.20 | 1.50 | 0.75 | 2.6 | 3.6 | 3.0 | 3.9 | 2.6 | 2.9 | 2.5 | 2.4 | 2.5 | 3.1 | 3.2 | 2.3 | Min./Day/Zone |
| **Bubblers** | Number of Zones: | | 1 | **2.6** | **3.6** | **3.0** | **3.9** | **2.6** | **2.9** | **2.5** | **2.4** | **2.5** | **3.1** | **3.2** | **2.3** | **Total Min./Day** |
| | **Total Number of Zones:** | | **3** | 11 | 14 | 12 | 16 | 11 | 12 | 10 | 9 | 10 | 12 | 13 | 9 | Total Min./Day |
| | **Total Controller Run Time in Hours:** | | | **0.18** | **0.24** | **0.20** | **0.26** | **0.18** | **0.19** | **0.17** | **0.16** | **0.17** | **0.21** | **0.21** | **0.15** | **Total Hrs./Day** |
| | | | | **JAN** | **FEB** | **MAR** | **APR** | **MAY** | **JUN** | **JUL** | **AUG** | **SEP** | **OCT** | **NOV** | **DEC** | |

**Note:** **These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.**

## IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING 1 TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS 3 BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK 4 INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS 6 WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR 7 SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE CARRIED, SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE 13 CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
14. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.

## WATER PRESSURE LOSS CALCULATIONS

| | | | |
|---|---|---|---|
| WATER METER NUMBER | | WATER METER SIZE (Inches) | |
| HYDRAULIC GRADE LINE (FT) | | WATER METER ELEVATION (FT) | |
| ELEVATION DIFFERENCE (FT) | | MIN. REQ. STATIC PRESSURE (PSI) | 40.0 |
| REMOTE CONTROL VALVE # | A50 | REMOTE CONTROL VALVE SIZE (In.) | 1.00 |
| R.C.V. DEMAND (GPM) | 10 | TOTAL DEMAND (GPM) | 10 |
| HIGHEST HEAD SERVED (FT) | | STATIC PRESSURE AT HIGHEST HEAD | |

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PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.

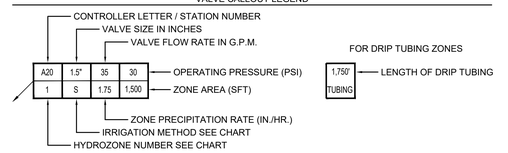
| SIZE (Inches) | DESCRIPTION | FLOW | # | LOSS | |
|---|---|---|---|---|---|
| 2.00 | ISOLATION VALVES (BALL TYPE) | 10 | 9 | 0.50 | PSI |
| 2.00 | 150 FEET OF MAINLINE: CL. 315 PVC | 10 | 10 | 0.15 | PSI |
| 2.00 | 6 - 90 DEGREE ELBOWS | 10 | 13 | 0.07 | PSI |
| 1.00 | REMOTE CONTROL VALVE ASSEMBLY | 10 | 14 | 1.80 | PSI |
| 10% | LATERAL LINE LOSSES | 10 | 15 | 3.00 | PSI |
| 20% | FITTING LOSS (IN ADDITION TO ELBOWS SHOWN) | N/A | 16 | 0.03 | PSI |
| 0.00 | ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD) | N/A | 17 | 0.00 | PSI |
| TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17) | | | 18 | 5.5 | PSI |
| PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE) | | | 19 | 30.0 | PSI |
| TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19) | | | 20 | 35.5 | PSI |
| STATIC WATER PRESSURE (FROM ABOVE) | | | 21 | 40.0 | PSI |
| RESIDUAL PRESSURE (SUBTRACT #20 FROM #21) | | | 22 | 4.5 | PSI |
| SET PRV OR MCV AT (#20 PLUS 10 PSI) | | | 23 | N/A | PSI |
| PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL) | | | 24 | N/A | PSI |

## IRRIGATION MATERIAL LEGEND

| SYMBOL | MANUFACTURER | MODEL NO. / DESCRIPTION | FLOW RATE (GPM) | PSI | RADIUS | PR. RATE | DETAIL |
|---|---|---|---|---|---|---|---|
| ▽ | RAIN BIRD | RD-06-S 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-50Q STREAM BUBBLER NOZZLE EACH SYMBOL REPRESENTS TWO (2) BUBBLER TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE. PLACE THE BUBBLER HEADS SIX (6) INCHES FROM THE ROOT BALL OF THE TREE AND ON OPPOSITE SIDES OF TREE. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE. | .50 (1.00 TOTAL) | 30 | 1.5 FT | 1.50 IN./HR. | A,B |
| ▼ | RAIN BIRD | RD-06-S 6" POP-UP BUBBLER HEAD WITH A RAIN BIRD 5CST-B DUAL STREAM BUBBLER NOZZLE AND PCS-020 (BROWN) PRESSURE COMPENSATING SCREEN | 0.20 | 30 | 1 FT | 1.50 IN./HR. | A,C |
| | NETAFIM | SUB-SURFACE DRIP TUBING AS DESCRIBED BELOW: TLHCVXR5-CS-12 SUBSURFACE DRIP TUBING (BROWN EXTERIOR COLOR WITH A COPPER OXIDE STRIPE) WITH 0.53 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH A CONTINUOUS EXTERIOR CUPRON STRIPE, COPPER OXIDE INFUSED EMITTERS AND A PHYSICAL BARRIER TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP EMITTERS SHALL BE CONTINUOUS FLUSHING TYPE AND EQUIPPED WITH A CHECK VALVE AND ANTI-SIPHON FEATURE. DRIP TUBING SHALL BE INSTALLED 4" BELOW THE FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE LINES SHOWN ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE SPACING REQUIREMENTS ABOVE AND IN DETAILS. | 0.53 GPH / EMITTER | 30 | N/A | 0.70 IN./HR. | D,E |
| NO SYMBOL | NETAFIM | CONNECTION BETWEEN DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING SCH. 40 PVC SXT FITTINGS, TL BARBED DRIP TUBING FITTINGS AND BLANK DRIP TUBING. USE A SCH. 40 PVCVLATERAL X LATERAL X 1/2" SxSxT TEE (OR A LATERAL X 1/2" SxT 90° ELBOW) FITTING ON THE PVC LATERAL LINE HEADER, A TL050MA BARB X 1/2" MALEVADAPTER, A SHORT LENGTH OF BLANK DRIP TUBING, AND A TLTEE BARBED TEE FITTING. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. NO HEATING OF TUBING SHALL BE ALLOWED FOR ASSEMBLY. | | | | | D,E |
| NO SYMBOL | NETAFIM | TL SERIES 17mm BARBED FITTINGS FOR CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). NO HEATING OF TUBING SHALL BE ALLOWED. | | | | | D,E |
| | AS APPROVED | PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS. | | | | | D,E |
| (F) | GPH IRRIGATION/ RAIN BIRD | GDFN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY (NO PRS DEVICE). THE FLUSH NOZZLE SHALL BE CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM. | | | | | E,F |
| | LASCO | VXX101N-SC XX" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX. | | | | | G |
| | RAIN BIRD | 44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX. | | | | | H |
| | RAIN BIRD | XXX-PES-PRS-D PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1", 1 1/2" AND 2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD AT THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX. | | | | | I |
| | RAIN BIRD | XXX-PESB PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A RAIN BIRD PRB-QKCHK-100 PRESSURE REGULATING BASKET STRAINER (200 MESH). FOR 1 1/2" DRCV'S INSTALL A RAIN BIRD LCRBY-150D DISC FILTER AND A SENNINGER 1 1/4" PMR-40-HF PRESSURE REGULATOR. USE A 1 1/2" SCH. 40 PVC THREADED COUPLING, A 1 1/2" X 1 1/4" PVC THREADED REDUCER BUSHING, AND A 1 1/4" X 2" SCH. 80 PVC NIPPLE AS REQUIRED TO CONNECT THE 1 1/4" REGULATOR TO THE DOWNSTREAM SIDE OF THE 1 1/2" FILTER. INSTALL THE DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX. | | | | | J |
| | BUCKNER | BUCKNER B402LK HOSE BIB, INSTALLED ON 1" BRASS MPTxMPT RISERS (LENGTH AS NEEDED) AND NIBCO T-685-70 FPTxFPT BALL VALVE; 12" ABOVE GRADE | | | | | K |
| | EXISTING | EXISTING 48-STATION RAINMASTER EAGLE PLUS CONTROLLER "A" TO REMAIN. SHOWN FOR REFERENCE ONLY; PROTECT-IN-PLACE. | | | | | N/A |
| | AS APPROVED | PVC PIPE 3/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE | | | | | L |
| | AS APPROVED | PVC PIPE 2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE | | | | | L |
| | EXISTING | EXISTING IRRIGATION MAINLINE AND CONTROL WIRE PATH TO REMAIN. SHOWN FOR REFERENCE ONLY; PROTECT-IN-PLACE | | | | | N/A |
| | AS APPROVED | PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE. | | | | | M |
| NO SYMBOL | LASCO | ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS. | | | | | N/A |
| NO SYMBOL | WELD-ON | ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE P-68 LOW VOC "PURPLE PRIMER". SOLVENT CEMENT SHALL BE 705 LOW VOC, GRAY COLORED "MEDIUM BODIED" CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS. | | | | | N/A |
| NO SYMBOL | PAIGE ELECTRIC | P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. | | | | | L,M,N |
| NO SYMBOL | GPH IRRIGATION | GDBRY6 DIRECT BURIAL, 100% SILICONE GEL, WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS | | | | | N |
| NO SYMBOL | NDS (K.B.I.) | KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE. | | | | | N/A |
| NO SYMBOL | NDS (K.B.I.) | KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE. | | | | | N/A |
| ⊗ | AS APPROVED | INSTALL WIRE SPLICES & RECONNECTIONS WITHIN A STANDARD RECTANGULAR VALVE BOX - TYP. | | | | | O |
| NO SYMBOL | RAIN BIRD | ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE BLACK IN COLOR. LIDS FOR VALVE BOXES IN SHRUB AREAS SHALL BE BLACK. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-H HEXAGON HEAD BOLT, WASHER AND CLIP. BOXES SHALL BE AS SHOWN BELOW: | | | | | P |

| DESCRIPTION | SHRUB AREAS (BLACK BOXES AND LIDS) |
|---|---|
| 10" ROUND BOXES | VB-10RNDB (BOX) AND VB-10RNDBKL (LID) |
| STANDARD RECTANGULAR BOXES | VB-STDB (BOX) AND VB-STDBKL (LID) |
| JUMBO RECTANGULAR BOXES | VB-JMBB (BOX) AND VB-JMBBKL (LID) |

VALVE CALLOUT LEGEND




| HYDROZONE DESCRIPTION CHART | | | |
|---|---|---|---|
| NUMBER | DESCRIPTION OF THE HYDROZONE | WUCOLS | PLANT FACTOR |
| HZ 1 | LOW WATER USE PLANTINGS | L | 0.20 |
| HZ 2 | LOW WATER USE TREES | L | 0.20 |

| IRRIGATION METHOD DESCRIPTION CHART | | | |
|---|---|---|---|
| LETTERS | DESCRIPTION OF THE IRRIGATION | TYPE | IR. EFFICIENCY |
| DT | DRIP TUBING | DRIP | 0.81 |
| TB | TREE BUBBLERS | BUBBLER | 0.75 |

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | Revision 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT TINA CHEE #6,246 Signature 11/30/2026 Renewal Date 01/30/2026 Date STATE OF CALIFORNIA

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NAC NO 161-23078
DRAWN
CHECKED
DATE 02/27/2027

IRRIGATION LEGEND & NOTES

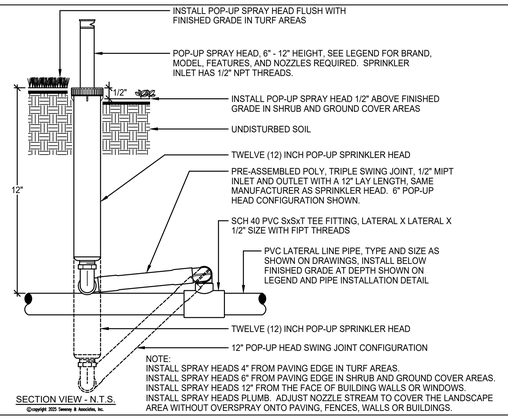
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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

2021 NAC Inc.

FILE No.: 19-91 A#: 03-123590

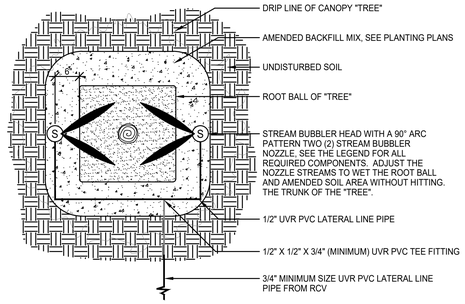



NOTE:
INSTALL SPRAY HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRAY HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRAY HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.
INSTALL SPRAY HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

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## A POP-UP SPRAY / BUBBLER HEAD

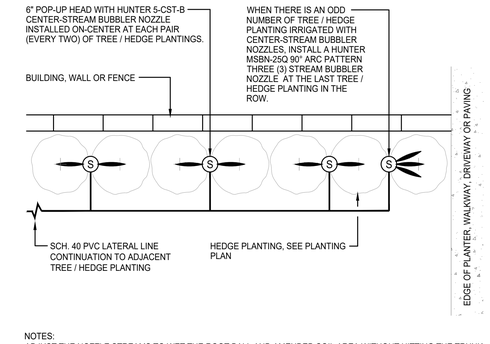



NOTE:
POSITION STREAM BUBBLER HEADS THREE (3) FEET FROM THE TRUNK OF THE TREE.

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## B TREE BUBBLER LAYOUT

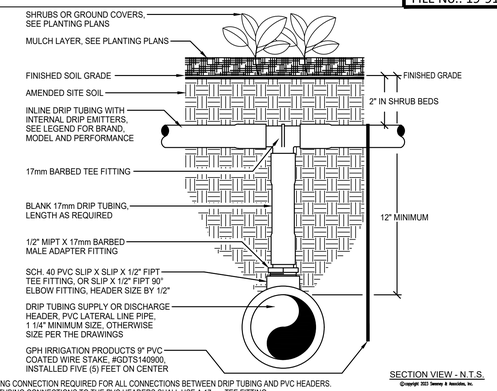



NOTES:
ADJUST THE NOZZLE STREAMS TO WET THE ROOT BALL AND AMENDED SOIL AREA WITHOUT HITTING THE TRUNK OF THE TREE OR HEDGE.
SEE POP-UP BUBBLER HEAD DETAIL FOR INSTALLATION OF BUBBLERS.

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## C CENTER STREAM BUBBLER

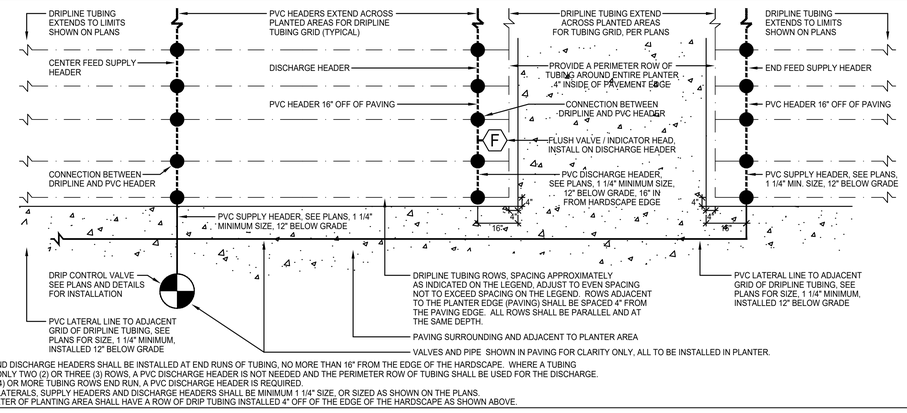



NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS. ALL DRIP TUBING CONNECTIONS TO THE PVC HEADERS SHALL USE A 17mm TEE FITTING, A SHORT LENGTH OF "BLANK" DRIP TUBING, AND A 17mm BARB X 1/2" MIPT MALE ADAPTER FOR THE CONNECTION.

SECTION VIEW - N.T.S.

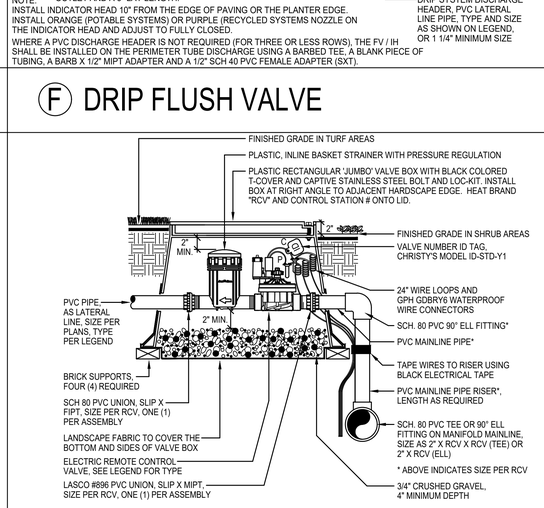
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## D DRIPLINE TUBING



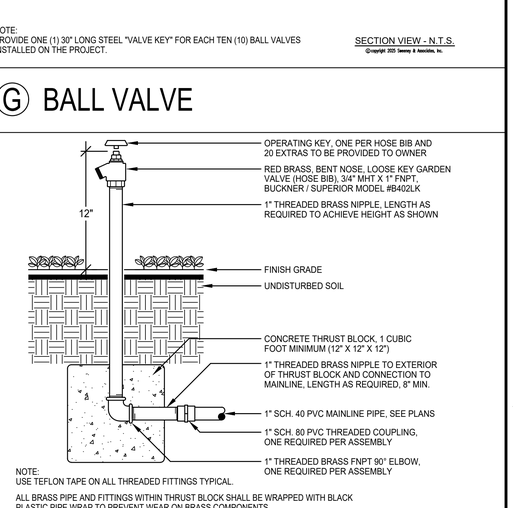

NOTE:
PVC SUPPLY AND DISCHARGE HEADERS SHALL BE INSTALLED AT END RUNS OF TUBING, NO MORE THAN 16" FROM THE EDGE OF THE HARDSCAPE. WHERE A TUBING END RUN HAS ONLY TWO (2) OR THREE (3) ROWS, A PVC DISCHARGE HEADER IS NOT NEEDED AND THE PERIMETER ROW OF TUBING SHALL BE USED FOR THE DISCHARGE. WHERE FOUR (4) OR MORE TUBING ROWS END RUN, A PVC DISCHARGE HEADER IS REQUIRED.
PVC PIPE FOR LATERALS, SUPPLY HEADERS AND DISCHARGE HEADERS SHALL BE MINIMUM 1 1/4" SIZE, OR SIZED AS SHOWN ON THE PLANS.
ENTIRE PERIMETER OF PLANTING AREA SHALL HAVE A ROW OF DRIP TUBING INSTALLED 4" OFF OF THE EDGE OF THE HARDSCAPE AS SHOWN ABOVE.

## E DRIP TUBING LAYOUT




NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE. INSTALL ORANGE (POTABLE SYSTEMS) OR PURPLE (RECYCLED SYSTEMS NOZZLE ON THE INDICATOR HEAD AND ADJUST TO FULLY CLOSED.
WHERE A PVC DISCHARGE HEADER IS NOT REQUIRED (FOR THREE OR LESS ROWS), THE FV / IH SHALL BE INSTALLED ON THE PERIMETER TUBE DISCHARGE USING A BARBED TEE, A BLANK PIECE OF TUBING, A BARB X 1/2" MIPT ADAPTER AND A 1/2" SCH 40 PVC FEMALE ADAPTER (SXT).

## F DRIP FLUSH VALVE

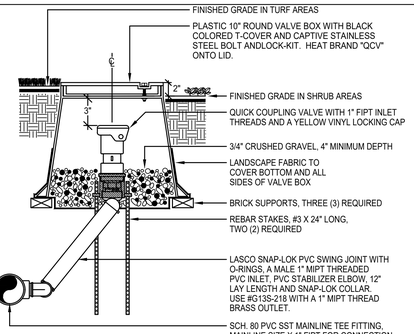



NOTE:
PROVIDE ONE (1) 30" LONG STEEL "VALVE KEY" FOR EACH TEN (10) BALL VALVES INSTALLED ON THE PROJECT.

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## G BALL VALVE




NOTE:
WHEN QCV IS LOCATED ON A MANIFOLD, USE A SCH. 80 SxT 90° ELBOW IN PLACE OF THE TEE FITTING. SIZE THE ELBOW AS MANIFOLD MAINLINE SIZE X 1" FIPT.

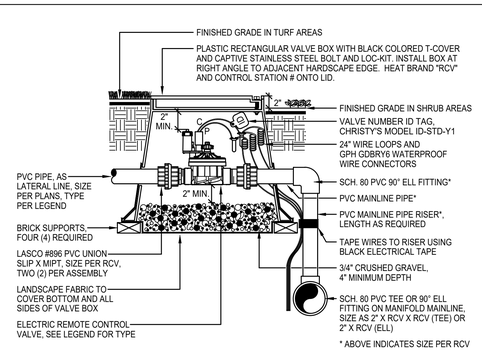
WHEN USING A 3/4" QUICK COUPLER VALVE, USE A LASCO G13T-212 SWING JOINT WITH A 3/4" BRASS OUTLET FOR CONNECTION TO THE QCV INLET. ALL OTHER PARTS OF SWING JOINT SHALL REMAIN 1" SIZE.

USE A NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

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## H QUICK COUPLER VALVE




NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS. USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

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## I REMOTE CONTROL VALVE




NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS. USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

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## J DRIP RCV ASSEMBLY




NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS TYPICAL.

ALL BRASS PIPE AND FITTINGS WITHIN THRUST BLOCK SHALL BE WRAPPED WITH BLACK PLASTIC PIPE WRAP TO PREVENT WEAR ON BRASS COMPONENTS.

IF NO BACKFLOW PREVENTION DEVICE IS INSTALLED PRIOR TO THE HOSE BIBS, A 3/4" HOSE BIB VACUUM BREAKER SHALL BE INSTALLED ON THE OUTLET OF EACH HOSE BIB.

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## K HOSE BIBB

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | Revision 02 |
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TINA CHEE ALEC PYLE
Signature
11/30/2026
Renewal Date
01/30/2026
Date
STATE OF CALIFORNIA

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IRRIGATION DETAILS

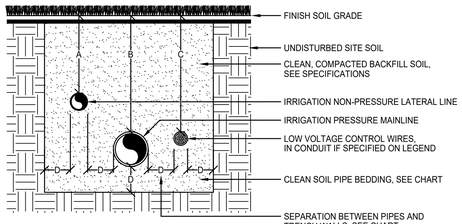
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I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

2021 NAC Inc

FILE No.: 19-91 A#: 03-123590



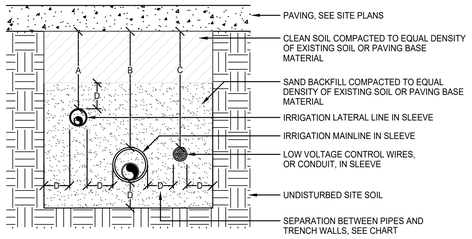

| PIPE SIZES | A | B | C | D |
|---|---|---|---|---|
| SIZES 3/4" TO 2 1/2" | 12" | 18" | 18" | 4" |
| SIZES 3" AND 4" | 18" | 24" | 24" | 4" |
| SIZES 6" AND LARGER | | 30" | 24" | 6" |

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SECTION VIEW - N.T.S.

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## Ⓛ PIPE INSTALLATION




| PIPE SIZES | A | B | C | D |
|---|---|---|---|---|
| UNDER PEDESTRIAN PAVING | 12" | 24" | 24" | 4" |
| UNDER VEHICULAR PAVING | 24" | 36" | 36" | 6" |

SECTION VIEW - N.T.S.

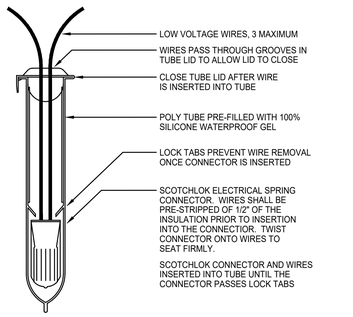
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SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

## Ⓜ SLEEVE INSTALLATION



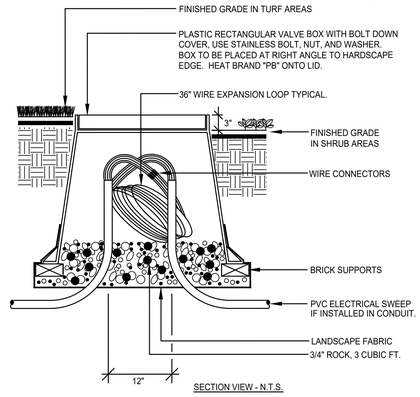

NOTE:
WIRE CONNECTOR SHALL BE A GPH IRRIGATION GDBRY6 DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A 100% SILICONE WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

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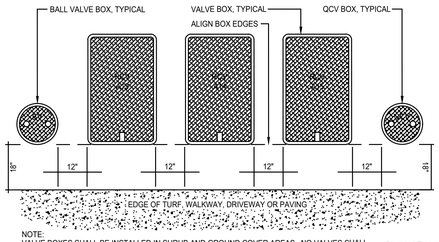
## Ⓝ WIRE CONNECTION




SECTION VIEW - N.T.S.

## Ⓞ SPLICE BOX

NOTE:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE OR DRIP ASSEMBLY TO FACILITATE SERVICING OF THE VALVE OR EQUIPMENT.
2. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER OR SHRUB AREAS WHERE EVER POSSIBLE. VALVES IN TURF AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT PAVING EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT THE COLLAPSE AND / OR DEFORMATION OF VALVE BOXES.
5. BOX LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO MAINLINE INSTALLATION FOR




NOTE:
VALVE BOXES SHALL BE INSTALLED IN SHRUB AND GROUND COVER AREAS. NO VALVES SHALL BE INSTALLED IN TURF AREAS WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

PLAN VIEW - N.T.S.

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## Ⓟ VALVE BOX LAYOUT

NOTE:
THE ACTUAL CONTRACTOR PROPOSED LOCATIONS FOR THE VARIOUS IRRIGATION EQUIPMENT LISTED BELOW SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION. CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SHOP DRAWING FOR VALVE BOX LAYOUTS PRIOR TO INSTALLATION. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT. SHOP DRAWINGS MUST INCLUDE LOCATIONS FOR THE FOLLOWING ITEMS: 1) POINT OF CONNECTION [INCLUDING WATER POC, BACKFLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.], 2) ISOLATION VALVES, 3) AUTOMATIC REMOTE CONTROL VALVES [INDICATE STATION NUMBER AND SIZE], 4) QUICK COUPLING VALVES, 5) DRIP FLUSH VALVES, 6) IRRIGATION CONTROLLER(S), 7) RELATED EQUIPMENT (AS MAY BE DIRECTED). EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S LOCATION INCLUDED ON THE SHOP DRAWINGS; LOCATIONS OF THIS EQUIPMENT SHALL BE INDICATED WITH TWO DIMENSIONS BASED FROM TWO PERMANENT POINTS OF REFERENCE [SUCH AS BUILDINGS, SIDEWALKS, CURBS, STREETLIGHTS, HYDRANTS, ETC.]. WHERE MULTIPLE COMPONENTS ARE INSTALLED WITH NO REASONABLE REFERENCE POINT BETWEEN THE COMPONENTS, DIMENSIONING MAY BASED OFF OF OTHER IRRIGATION EQUIPMENT THAT HAS BEEN DEFINED BY TWO PERMANENT POINTS. ALL SHOP DRAWING IRRIGATION SYMBOLS SHALL BE CLEARLY SHOWN AND SHALL MATCH THE SYMBOLS SHOWN ON THE IRRIGATION LEGEND OF THE DRAWINGS. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE.

## Ⓠ VALVE BOX LAYOUT

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | Revision 02 |
| | 02/27/2026 | BID SET |

LICENSED LANDSCAPE ARCHITECT
TINA CHEE
No. 5139
Signature
11/30/2026
Renewal Date
01/30/2026
State
STATE OF CALIFORNIA

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IRRIGATION DETAILS

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# ELECTRICAL SYMBOLS

| | |
|---|---|
| A | PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL. |
| (E) | EXISTING. |
| C.O. | CONDUIT ONLY WITH #12 PULL WIRE. |
| (N) | NEW. |
| U.O.N. | UNLESS OTHERWISE NOTED. |
| B | BOLLARD LIGHT FIXTURE. |
| A | FLOOD LIGHT FIXTURE. |
| | TELEPHONE OUTLET, +48" A.F.F. |
| | DATA OUTLET (SINGLE). |
| WAP | WIRELESS ACCESS POINT. |
| S | PA SPEAKER. MATCH TO EXISTING. |
| J | JUNCTION BOX: MOUNT +18" UNLESS NOTED OTHERWISE. |
| J | JUNCTION BOX: MOUNTED IN ATTIC SPACE OR UNDER CANOPY. |
| | DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. +18" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED. |
| WP | WEATHERPROOF DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. +18" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED. |
| GFI WP | GFI TYPE FLUSH DUPLEX RECEPTACLE: 125V., 15 AMP., NEMA 5-15R WITH WEATHERPROOF LOCKABLE COVER, +18" ABOVE FINISH GROUND. |
| | TIME CLOCK, "INTERMATIC ET1125C", 2-CIRCUIT 120 VOLTS. |
| ab HWP | LINE VOLTAGE DIMMER SWITCH IN NEMA 3R LOCKABLE ENCLOSURE, +60" ABOVE FINISH GROUND. |
| | 3/4"C, 2#12 & 1#12 GND. |
| | 3/4"C, 4#12 & 1#12 GND. |
| | CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS. |
| | CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE. |
| | CONDUIT: EXPOSE IN UNFINISHED AREAS: CONCEALED ABOVE CEILING OR IN WALL IN FINISH AREAS. |
| | LIGHTING PANEL. |
| A.I.C. | AMPERE INTERRUPTING CURRENT. |
| | DISTRIBUTION BOARD. |

| | |
|---|---|
| A.F.F | ABOVE FINISHED FLOOR. |
| W.P. | WEATHERPROOF. |
| IDF | INTERMEDIATE DISTRIBUTION FRAME. |

# COMPUTER DATA/TELEPHONE CABLE CONDUIT SCHEDULE

1DW TO 3DW - 3/4" CONDUIT.

4DW TO 6DW - 1" CONDUIT.

7DW TO 10DW - 1-1/2" CONDUIT.

11DW TO 14DW - 1-1/2" CONDUIT.

# PA SPEAKER CABLE CONDUIT SCHEDULE

1A — 3/4"C, WITH ONE "A" CABLE.

# CABLE TYPE

"A" CABLE - PA INDOOR SPEAKER CABLE WEST PENN #356.

"AW" CABLE - PA INDOOR SPEAKER CABLE WEST PENN #356, WET LOCATION TYPE.

"DW" CABLE - #24 AWG 4-PAIR CAT-6 COMPUTER DATA/TELEPHONE (WET LOCATION).

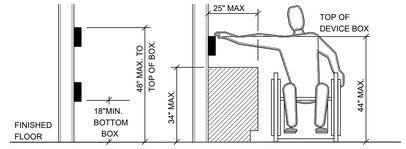



# TEL/DATA RISER DIAGRAM

N.T.S.

KEYED NOTES

1 ADD PATCH PANELS, WIRE MANAGEMENT, FIBER TERMINATION UNITS, ELECTRONIC SWITCHES FOR DATA AND TELEPHONE.




# MOUNTING HEIGHTS

N.T.S. OUTLETS, INTERCOM, CONTROLS, ETC.

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR (UNLESS OTHERWISE NOTED ON DRAWINGS)

| | |
|---|---|
| +48": A.F.F. TO TOP OF BOX: | LIGHT SWITCHES, DIMMER SWITCHES, FIRE ALARM PULL STATION, DUCT DETECTOR TEST PANEL, INTERCOM CALL SWITCH, SPEAKER VOLUME CONTROL, T-STATS, BY-PASS TIMER WALL TELEPHONE. |
| +18" A.F.F. TO BOTTOM OF BOX: | ALL DUPLEX RECEPTACLES, WALL OUTLET FOR DESK TELEPHONE, COMPUTER OUTLET, UNLESS OTHERWISE NOTED. |

# LIGHTING FIXTURE SCHEDULE

| TYPE | DESCRIPTION | FINISH | LED | DRIVER | WATTAGE | MANUFACTURER & PART NUMBER | REMARKS |
|---|---|---|---|---|---|---|---|
| A | SMALL LED FLOOD LIGHT 6X6 OPTIC WITH TRUNION MOUNT ACCESSORIES FOR MOUNTING. | STANDARD FINISHES | 1 - 25W LED 4K | 0 - 10V DIMMING | 25 | BEACON - RFL2-44L-25-4K7-W-UNV-K-FINISH-CD | POST / WALL |
| B | 42IN TALL BOLLARD WITH VERTICAL LENS OPTION | STANDARD FINISHES | 1 - 22W LED 4K | 0 - 10V DIMMING | 22 | KIM LIGHTING - PA7R-FT-CH-3-12L-020-4K7-42A-FINISH-UNV- | SURFACE |

# GENERAL NOTES

1) THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.

2) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S), OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF AUSD ARCHITECT/ENGINEER OF RECORD PRIOR TO COMMENCING ANY WORK.

3) CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.

4) ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.

5) WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

6) THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.

7) IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.

8) REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.

9) EXISTING FIRE ALARM SYSTEM AND SECURITY SYSTEM MUST REMAIN IN OPERATION UNTIL NEW SYSTEM IS COMPLETE, APPROVED AND OPERATIONAL.

10) QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF AUXILIARY SYSTEM (FA, TEL, SECURITY) SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN. PROVIDE ALL SPARE WIRES BETWEEN DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT.

11) IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.

12) ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.

13) ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.

14) COORDINATION:
A. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON ELECTRICAL. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE BID TIME, OR BEFORE PROCEEDING WITH THE WORK.

B. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.

C. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL, COMMUNICATION AND SECURITY REQUIREMENTS BEFORE CONSTRUCTION BEGINS.

15) ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE CONSTRUCTION BEGINS.

16) THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "EXISTING" OR AS "PROVIDED BY OTHERS".

17) JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.

18) IF USE OF WIREMOLD IS DESIRED, CONTRACTOR SHALL OBTAIN A LETTER FROM AOR AUTHORIZING USE OF WIREMOLD PRIOR TO INSTALLATION.

19) DRAWINGS ARE BASED ON AVAILABLE AS-BUILT PLANS AND FIELD OBSERVATIONS. NOTIFY THE AUTHORIZED OWNER REPRESENTATIVE (AOR) IMMEDIATELY WHEREVER (E) CONDITIONS ENCOUNTERED DEVIATE FROM THESE DRAWINGS AND EXISTING EQUIPMENT MUST BE RELOCATED DUE TO NEW CONSTRUCTION EFFORTS.

20) PROVIDE GROUND BUSHING ON NEW AND EXISTING PULLBOXES.

21) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN CONTINUITY OF THE EXISTING FIRE ALARM SYSTEM, CENTRAL STATION REPORTING SYSTEM, SMOKE MANAGEMENT SYSTEM, AND ANY OTHER LIFE SAFETY EQUIPMENT EXISTING AT THE SITE AND AFFECTED BY HIS WORK ON THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH OR OTHER MITIGATING MEASURES FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.

22) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES.

23) ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REPLACED OR REASSEMBLED TO AT LEAST THE CONDITION IN LIKE QUALITY PRIOR TO REMOVAL OR DISASSEMBLY.

24) THE COLOR CODE FOR WIRE INSULATION IN THE LOW VOLTAGE SPECIFICATIONS SHOULD BE FOLLOWED.

25) SEAL ALL SPACE AROUND CONDUIT PENETRATION THROUGH FIRE RATED WALL WITH A UL LISTED FIRE BARRIER COMPOUND "3M" CAULKING OR EQUAL.

# CODES, STANDARDS & GUIDES

LIST OF APPLICABLE CODES
2022 California Administrative Code (CAC), Part 1, Title 24 CCR
2022 California Building Code (CBC), Part 2, Title 24 CCR
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
2022 California Energy Code, Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2010 ADA Standards for Accessible Design

APPLICABLE STANDARDS
For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.

Applicable Code: 2022 CBC

**MEP Component Anchorage Note**

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Applicable Code: 2022 CBC

**Piping, Ductwork, and Electrical Distribution System Bracing Note**

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAi OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP☐ MD☐ PP ☐ E☑ Option 1: Detailed on the approved drawings with project specific notes and details.

MP☐ MD☐ PP☐ E☐ Option 2: Shall comply with HCAi Preapproval (OPM #) #_____.


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| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED ARCHITECT HELENA LJUBAVIC 22214 REN. 6-31-27 STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS, AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF ARCHITECT FOR WHOM THEY WERE MADE. BE EXECUTED OR NOT, AND THEY ARE NOT TO BE USED ON ANY OTHER SITE EXCEPT BY AGREEMENT IN WRITING.

RECOGNIZED PROFESSIONAL ENGINEER MEP ENGINEERING SERVICES E-21894 Exp. 09/30/27 ELECTRICAL STATE OF CALIFORNIA

# MILDRED B. JANSON ELEMENTARY SCHOOL NEW RELOCATABLES

8626 MARSHALL ST, ROSEMEAD, CA 91770

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3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

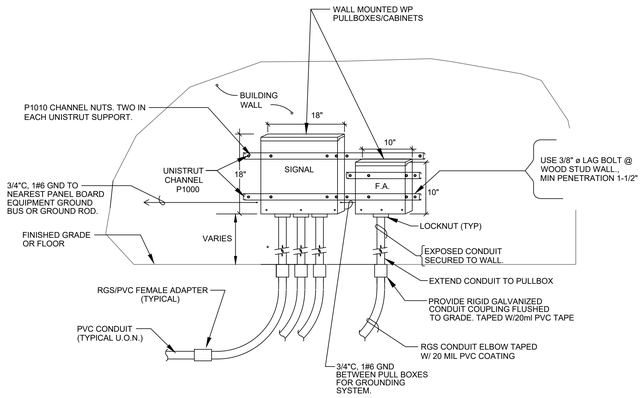

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| CHECKED | AF |
| DATE | 02/27/2027 |

**SYMBOL LIST AND NOTES**

**E-001**

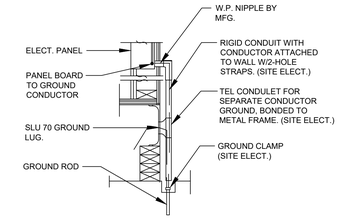
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* QUANTITY OF CONDUIT PER SITE PLAN DRAWING E101 & FA101.

## 3 E-002 COMMUNICATION JUNCTION BOXES DETAIL

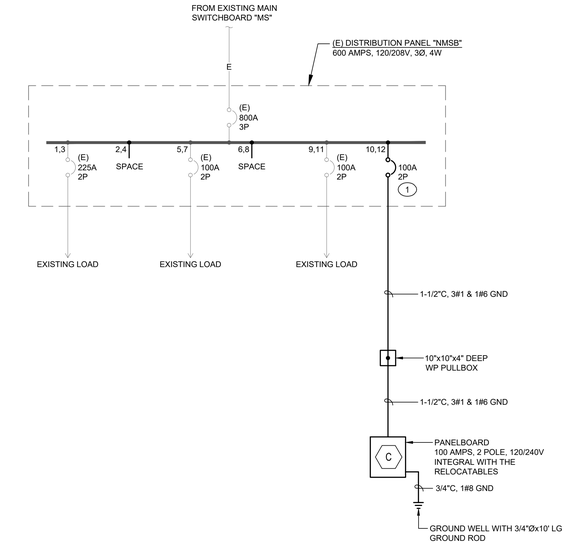
N.T.S.




## TYPICAL GROUNDING DET

N.T.S.

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD.X8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP. (BY SITE ELECTRICAL).
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).
3. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 2-23J, PART B.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
5. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.



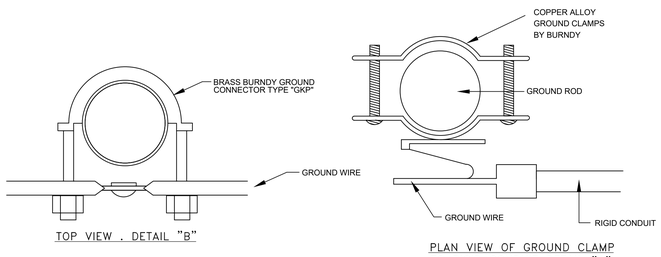

## SINGLE LINE DIAGRAM

N.T.S.

KEYED NOTES

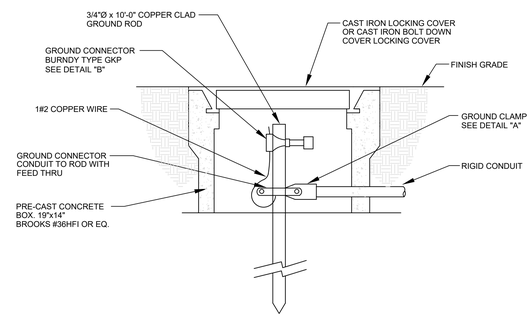
(1) PROVIDE NEW CIRCUIT BREAKER 100 AMPS, 2 POLE, 250 VOLTS WITH MOUNTING ACCESSORY. MATCH EXISTING TYPE AND A.I.C. RATING.

THE ELECTRICAL ENGINEER WHOSE SIGNATURE IS ON THIS SET OF DRAWINGS HAS REVIEWED THE EXISTING ELECTRICAL POWER SYSTEM AND HAS DETERMINED THAT THERE IS ENOUGH CAPACITY TO HANDLE THE NEW BUILDINGS WITH CONNECTION METHOD AS SHOWN.



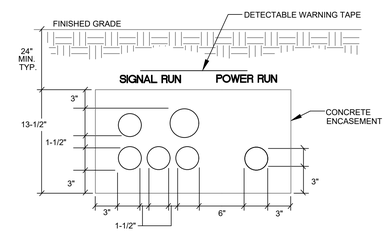

TOP VIEW . DETAIL "B"

PLAN VIEW OF GROUND CLAMP TO RIGID CONDUIT DETAIL "A"




## 2 E-002 GROUND ROD & PRECAST CONCRETE BOX DETAIL

N.T.S.




## 1 E-002 CONDUIT DUCT BANK SECTION

N.T.S.

NOTE: 1. DETAILS SHOWS TYPICAL CONDUIT SPACING AND DEPTH ONLY. REFER TO DRAWINGS FOR EXACT QUANTITY AND SIZES OF CONDUITS.

2. SAW CUT AND PATCH EXISTING SURFACE WHEN TRENCHING UNDER EXISTING ASPHALT OR CONCRETE. PATCH TO MATCH EXISTING CONDITION.

3. ELECTRICAL UNDERGROUND CONDUITS SHALL HAVE A 12" MINIMUM SEPARATION FROM ANY OTHER UNDERGROUND UTILITIES.

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| 1 | 05/09/2025 | REVISION 01 |
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| | 02/27/2026 | BID SET |

LICENSED ARCHITECT HELENA LJUBAN 22214 REN. 6-31-27 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER MEHRDAD FARAHMAND E21876 Exp. 09/30/27 ELECTRICAL STATE OF CALIFORNIA

# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
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| CHECKED | AF |
| DATE | 02/27/2027 |

**SINGLE LINE DIAGRAM & DETAILS**

**E-002**




## ELECTRICAL SITE PLAN

SCALE: 1"=30'-0"

N

PLAN NORTH

KEYED NOTES

1. 3/4"C, (1)AW, CONNECT TO EXISTING PA SPEAKER.
2. 1-1/2"C, (5)DW (DATA/TEL).
3. WEATHERPROOF SIGNAL PULLBOX 18"x18"x6" DEEP, MOUNT HIGH ON WALL.
4. 2"C, (1)AW, (5)DW (PA/DATA/TEL).

EXCAVATION NOTES

CONTRACTOR SHALL FIELD VERIFY UNDERGROUND UTILITIES PRIOR TO WORK (ELECTRICAL CONDUITS, SEWER LINES, WATER LINES, PLUMBING, ETC.). CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND LINES. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING LINES WHERE NEW TRENCHING OCCURS BY USING ELECTRONIC LOCATING DEVICES, DIG ALERT SERVICES, ETC. CONTRACTOR SHALL INCLUDE THE COST OF LOCATING THE EXISTING UNDERGROUND LINES IN THE BID. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO EXISTING LINES.

TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND LINES ARE PRESENT SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION. UNDERGROUND POWER AND SIGNAL PULLBOXES WHERE SHOWN ON THE SITE PLAN DETERMINED TO BE IN CONFLICT WITH EXISTING UNDERGROUND LINES AFTER EXCAVATION BY HAND SHALL BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWINGS.

FILE No.: 19-91 A#: 03-123590

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LICENSED ARCHITECT HELENA LJUBANT 22214 REN. 6-31-27 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER MEHRDAD SHAHRIARI E21979 Exp. 09/30/27 ELECTRICAL STATE OF CALIFORNIA

# MILDRED B. JANSON ELEMENTARY SCHOOL

## NEW RELOCATABLES

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| DRAWN | HY |
| CHECKED | AF |
| DATE | 02/27/2027 |

**ELECTRICAL SITE PLAN**

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**E-101**




## RELOCATABLE ELECTRICAL PLAN

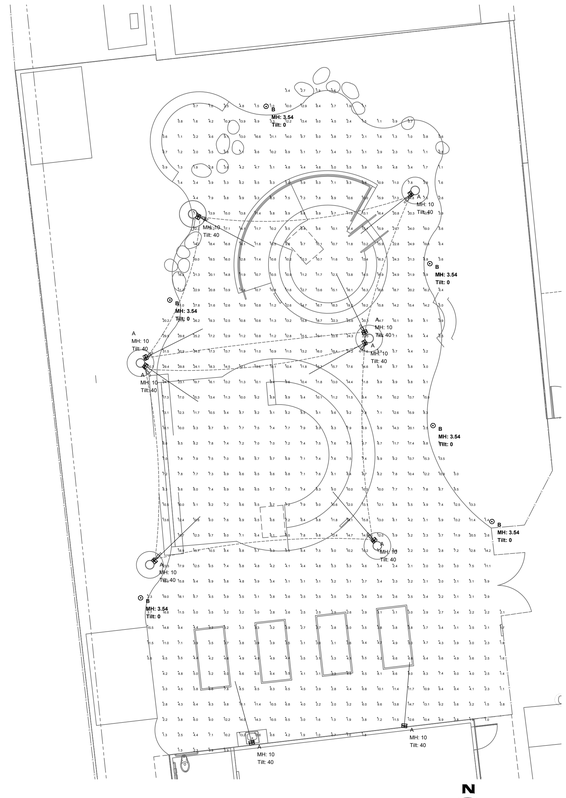
SCALE: 1/8"=1'-0"

N

PLAN NORTH

KEYED NOTES

1. RUN SIGNAL CABLES EXPOSED IN CEILING SPACE WITH J-HOOK CABLE SUPPORT AT 4 FEET ON CENTER.
2. WEATHERPROOF PULLBOX 18"x18"x6"DEEP, MOUNT HIGH ON WALL.




## PHOTOMETRIC CALCULATIONS

SCALE: 1/8"=1'-0"

N

PLAN NORTH

| Luminaire Schedule | | | | | | |
|---|---|---|---|---|---|---|
| Symbol | Qty | Label | Arrangement | LLF | Luminaire Lumens | Description |
| ▭ | 10 | A | Single | 0.850 | 3312 | BEACON // RFL2-44L-25-4K7-W |
| ④ | 6 | B | Single | 0.850 | 1788 | KIM // PA7R-CH3-12L-020-4K7 |

| Calculation Summary | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Site | Illuminance | Fc | 8.60 | 31.5 | 0.6 | 14.33 | 52.50 |

**Jobname: MILDRED B. JANSON ELEMENTARY SCHOOL NEW RELOCATABLE**
**Location: Rosemead, CA**
**Report by: Pacific Engineers Group**
**c/o: Crissy Cosci**
**Report by: Ismael Avina-Prieto / Applications Engineer**
**Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]**
**Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]**
**See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]**
**Filename: Janson ES__2026-01-Rev1.AGI**
**Date:1/30/2026**

**-----Disclaimer-----**
**Luminaire performance data is provided by manufacturer(s) and is based on IESNA testing procedures done in controlled laboratory conditions. Field results may vary from computer modeling due to numerous factors (beyond our control). This photometric modeling is based upon information and criteria provided to us and is solely for design assistance; final lighting design, application, fixture selection and layout is the responsibility of the specifier of record.**

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FILE No.: 19-91 A#: 03-123590

| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED ARCHITECT
KELENA LJUBAN
22214
REN. 8-31-27
STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS, AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF NAC ARCHITECTURE WHETHER THE PROJECT FOR WHICH THEY ARE MADE BE EXECUTED OR NOT, AND THEY ARE NOT TO BE USED FOR ANY OTHER SITE WITHOUT WRITTEN AGREEMENT FROM NAC PREPARED, EXCEPT BY AGREEMENT IN WRITING.

REGISTERED PROFESSIONAL ENGINEER
MEHRDAD YAZDANI
E-21879
Exp. 09/30/27
ELECTRICAL
STATE OF CALIFORNIA

# MILDRED B. JANSON ELEMENTARY SCHOOL
## NEW RELOCATABLES
8626 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

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| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | HY |
| CHECKED | AF |
| DATE | 02/27/2027 |

**RELOCATABLE ELECTRICAL PLAN & PHOTOMETRIC CALCULATIONS**

**E-201**

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# FIRE ALARM SYMBOL LIST

| | |
|---|---|
| CANDELA RATING (95) A1-1 V2-1 [1] | CEILING MOUNTED SPEAKER/STROBE, CANDELA RATING AS INDICATED WITH 1 WATT SPEAKER TAPPED. "SYSTEM SENSOR #SPSCRL, CSFM #7320-1653:0505" |
| V2-1 15cd | FIRE ALARM STROBE. MOUNT AT +96" TO TOP OF STROBE. CANDELA RATING AS INDICATED. "V2-1" DENOTES FIRE ALARM SIGNAL CIRCUIT NUMBER. "15cd" DENOTES 15cd CANDELA RATING. SYSTEM SENSOR #SRL, CSFM #7125-1653:0504" |
| S1-1 | ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE. "S1-1" DENOTES LOOP DETECTOR IDENTIFICATION NUMBER "SILENT KNIGHT #SK-PHOTO-W, CSFM #7272-0559:0512" |
| | HEAT DETECTOR IN CEILING SPACE ABOVE T-BAR CEILING. "SILENT KNIGHT #SK-HEAT-HT-W; CSFM #7270-0559:0511" |
| FATC | FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS. 12"x12"x5" DEEP. |
| MFACP | MAIN FIRE ALARM CONTROL PANEL. "SILENT KNIGHT #6820EVS, CSFM #7165-0559:0500" |
| FA | FIRE ALARM |
| FAPS | FIRE ALARM POWER SUPPLY. "SILENT KNIGHT #5496, CSFM #7165-0559:0500" |
| VOICE EVAC | VOICE EVACUATION PANEL. "SILENT KNIGHT #6820EVS, CSFM #7165-0559:0500" |
| MFATC | MAIN FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS 24"x24"x6"DEEP. |
| (E) | EXISTING TO REMAIN. |
| W.P. | WEATHERPROOF. |
| FA ANNUN | FIRE ALARM ANNUNCIATOR PANEL. "SILENT KNIGHT #EVS-LOC CSFM #7165-0559:0500" |
| RA | REMOTE AMPLIFIER. "SILENT KNIGHT #EVS-50W, CSFM #7165-0559:0172" |
| (XR) | DISCONNECT AND REMOVE EXISTING DEVICES. DEMOLISH EXISTING ASSOCIATED WIRES/CABLES. |
| EOL | END OF LINE RESISTOR. |
| PB | PULLBOX, WEATHERPROOF. |
| SLC | SIGNALLING LINE CIRCUIT. |

# FIRE ALARM CABLE AND WIRING

| | |
|---|---|
| "F" CABLE - | "WEST PENN" NO. D980, 1 PAIR #18 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP. |
| "FW" CABLE - | "WEST PENN" NO. AQC225, 1 PAIR #16 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP (UNDERGROUND). |
| "A" CABLE - | 2#14 TWISTED PAIR, AUDIO CABLE (SPEAKER). |
| "AW" CABLE - | 2#14 TWISTED PAIR, AUDIO CABLE WET LOCATION (AUDIO). |
| "V" CABLE - | 2#12 AWG-FIRE ALARM VISUAL CIRCUIT CABLE. |
| F,A,V / F,A,V | 3/4"C, WITH ONE "F" CABLE, ONE "A" CABLE AND ONE "V" CABLE. |
| F | 3/4" CONDUIT WITH ONE "F" CABLE. |
| 2F | 3/4" CONDUIT WITH TWO "F" CABLES. |
| V | 3/4" CONDUIT WITH ONE "V" CABLE. |
| 2V | 3/4" CONDUIT WITH TWO "V" CABLES. |
| A | 3/4" CONDUIT WITH ONE "A" CABLE. |
| 2A | 3/4" CONDUIT WITH TWO "A" CABLES. |
| AW | 3/4" CONDUIT WITH ONE "AW" CABLE. |
| 2AW | 3/4" CONDUIT WITH TWO "AW" CABLES. |
| 2F,2A,2V | 1-1/2" CONDUIT WITH TWO "F", TWO "A", TWO "V" CABLES. |
| 2A,2V | 1" CONDUIT WITH TWO "A", TWO "V" CABLES. |
| F,A,2V | 1" CONDUIT WITH ONE "F", ONE "A", TWO "V" CABLES. |

# GENERAL FIRE ALARM NOTES

1. THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS APPLICABLE TO THIS PROJECT.
2. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/IOR. CONTRACTOR TO SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "DECIMETER" TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES, PROVIDE TEST RESULTS PER NFPA 72 TO ARCHITECT, DSA, INSPECTOR OF RECORD, OWNER AND TO THE LOCAL FIRE AUTHORITY.
3. PENETRATIONS OF ALL FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, PART 2. PROVIDE DETAILS AND DESIGN NUMBERS.
4. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENTS (CCD) APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
5. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1. TITLE 24, CCR.
6. AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY THE ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
7. LOCATION AND PLACEMENT OF FIRE ALARM DEVICES ARE NOT TO BE CONSIDERED DIAGRAMMATIC IN NATURE. ANY CHANGE IN THE LOCATION OR PLACEMENT OF BOTH DETECTION AND NOTIFICATION DEVICES MUST BE REVIEWED AND APPROVED BY DSA FLS. FINAL APPROVAL OF DEVICE PLACEMENT IS SUBJECT TO FIELD VERIFICATION OF CODE COMPLIANCE.
8. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
9. ALL TERMINATIONS IN TERMINAL CABINETS SHALL BE ON TERMINAL BLOCKS.
10. "THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS."
11. AT LEAST ONE TERMINATION CABINET IN EACH BUILDING FOR TERMINATION OF ALL FIRE ALARM WIRING. PROVIDE A MAIN TERMINAL CABINET IN MAIN BUILDING FOR ROUTING ALL FIRE ALARM SYSTEM WIRING FOR ENTIRE SCHOOL.
12. "CONTRACTOR SHALL INSTALL AND FURNISH A COMPLETE ADDRESSABLE FIRE ALARM VOICE EVACUATION SYSTEM, INCLUDING BUT NOT LIMITED TO WIRING, CONDUITS AND DEVICES REQUIRED FOR SATISFACTORY OPERATION OF SYSTEM."
13. ALL EXPOSED CONDUITS AND BOXES WITH THE EXCEPTION OF THOSE IN UNOCCUPIED AREAS LIKE JANITOR OR UTILITY ROOMS, SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
14. THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
15. IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
16. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
17. QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF FA SYSTEM SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN.
18. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED SURFACE THAT THE BOXES ARE ATTACHED BUILDINGS.
19. ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
20. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
21. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, THE FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE SHOULD BE UPDATED TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
22. SPLICING OF FA SYSTEM WIRING IS NOT ALLOWED. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED, ON DEVICE TERMINALS, TERMINAL BLOCKS IN CABINETS AND EQUIPMENT TERMINALS.
23. LABEL DESCRIPTIONS" INDICATING DEVICE TYPE AND LOCATION THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAY SHOULD BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTIONS SHOULD BE BASED ON THE STAFFS UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
24. PROVIDE 24 HOURS FIRE WATCH DURING CONSTRUCTION. SHOULD EXISTING SYSTEM NEED TO BE INTERRUPTED. INCLUDE ALL COST IN ORIGINAL BID.
25. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES.

# CONSTRUCTION NOTES

1. VERIFY CONDUIT STUB UP AREAS OUTSIDE ALL BUILDINGS AND STUB UP AT BEST AREAS TO AVOID EXISTING WINDOWS, VENTS, ETC.
2. PERFORM THE NECESSARY DEMOLITION WORK WITH GREAT CARE AND WITH SMALL TOOLS IN ORDER NOT TO JEOPARDIZE EXISTING STRUCTURE AND EQUIPMENT TO REMAIN.
3. HEAT DETECTORS INSTALLED ABOVE SUSPENDED CEILING MUST HAVE THEIR LOCATIONS CLEARLY MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE. LABEL LETTERING SHOULD BE 1/2" HIGH, RED ON WHITE BACKGROUND AND BOLD ENOUGH TO BE EASILY SEEN BY PERSONNEL FROM THE FLOOR.
4. REPLACE DAMAGED CEILING TILES AND CEILING TILES WITH HOLES DUE TO REMOVAL OF EXISTING DEVICES, J-BOX, CONDUITS, WIREMOLD RACEWAYS & ETC.
5. UNLESS SPECIFICALLY APPROVED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE ALTERED BY CUTTING, BORING, BRAZING, DRILLING, NOTCHING, WELDING AND ETC. WITHOUT THE SEOR AND DSA REVIEW AND APPROVAL.
6. SEAL AND CAULK AS REQUIRED AT ALL PENETRATIONS.
7. WHEREVER POSSIBLE, CONCEAL NEW CONDUITS AND BOXES IN CEILING, ATTIC SPACE OR WALLS. FISH CONDUITS INSIDE OF STUD WALLS WHERE POSSIBLE. WHERE EXPOSED RACEWAYS AND BOXES HAVE TO BE USED IN FINISHED AREAS, USE "WIREMOLD" TYPE SURFACE RACEWAYS. FOR ONE SD PER CLASSROOM, RUN THE WIREMOLD FROM WALL J-BOX UP TO THE SD ONLY. FOR TWO SD PER CLASSROOM, LOCATE THE TWO SD CLOSER TO WALLS WITH A CENTER-TO-CENTER SPACE BETWEEN SD IN COMPLIANCE WITH NFPA-72 AND USE A SHORT PIECE OF WIREMOLD FROM EACH WALL J-BOX TO EACH SD. DO NOT RUN WIREMOLD ACROSS THE CEILING BUT RUN ALONG WALLS.
8. WHEN RUNNING WIREMOLD RACEWAYS, RUN RACEWAYS HIGH ON WALL AT CEILING LINE OR LOW NEAR FLOOR AND SWEEP DOWN OR UP TO DEVICES. TAKE CARE TO MAKE INSTALLATION NEAT AND UNOBJECTIONABLE. DRAWINGS DO NOT SHOW NECESSARY INTERMEDIATE BOXES. INCLUDE ALL NECESSARY FITTINGS, PULL AND J-BOXES IN BID.
9. IF STRUCTURAL MEMBERS NOT INDICATED TO BE REMOVED ARE INTERFERING WITH NEW CONSTRUCTION, OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER BEFORE REMOVING SUCH MEMBERS. DSA APPROVAL REQUIRED.
10. COORDINATE THE DEMOLITION WORK AND NEW CONSTRUCTION TO PERMIT CONTINUED OPERATION OF ALL FACILITIES NECESSARY TO BE KEPT IN OPERATION.

# CODES, STANDARDS & GUIDES

LIST OF APPLICABLE CODES
2022 California Administrative Code (CAC), Part 1, Title 24 CCR
2022 California Building Code (CBC), Part 2, Title 24 CCR
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
2022 California Energy Code, Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2010 ADA Standards for Accessible Design

APPLICABLE STANDARDS
For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.

Applicable Code: 2022 CBC

**MEP Component Anchorage Note**

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.16 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Applicable Code: 2022 CBC

**Piping, Ductwork, and Electrical Distribution System Bracing Note**

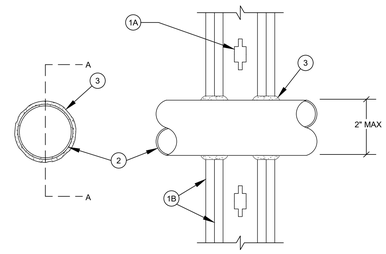
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAI OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP☐ MD☐ PP ☐ E☑ Option 1: Detailed on the approved drawings with project specific notes and details.

MP☐ MD☐ PP☐ E☐ Option 2: Shall comply with HCAi Preapproval (OPM #) #_____.




# SECTION A-A

# THROUGH - PENETRATION FIRESTOP SYSTEM

System No. W-L-1001
June 15, 2005
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3 and 4 Hr (See Item 3)
L Ratings At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. Through Penetrant - One Metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. Through-Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         OMEGA FLEX INC
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         TITEFLEX CORP
         A BUNDY CO
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         WARD MFG INC
3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8, 1-1/4,1-7/8 and 2-1/2in. (16, 32, 48, and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the fire stop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following tables. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

| Max Pipe or Conduit Diam In. (mm) | F Rating Hr | T Rating Hr |
|---|---|---|
| 1 (25) | 1 or 2 | 0+, 1 or 2 |
| 1 (25) | 3 or 4 | 3 or 4 |
| 4 (102) | 1 or 2 | 0 |
| 6 (152) | 3 or 4 | 0 |
| 12 (305) | 1 or 2 | 0 |

+ When copper pipe is used, T Rating is 0 hr.
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.
* Bearing the UL Classification Marking

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.


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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

FILE No.: 19-91 A#: 03-123590

Revisions
02/27/2026 BID SET

LICENSED ARCHITECT HELENA LJUBANI 22214 REN. 6-31-25 STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS, AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF ARCHITECT THEREOF FOR WHOM SUCH ARE MADE. BE EXECUTED OR NOT, AND THEY ARE NOT TO BE USED FOR ANY OTHER SITE AND PURPOSE WITHOUT WHICH THEY ARE PREPARED, EXCEPT BY AGREEMENT IN WRITING.

REGISTERED PROFESSIONAL ENGINEER ALI FARZAM 22187 Exp. 09/30/25 ELECTRICAL STATE OF CALIFORNIA

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NEW RELOCATABLES
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| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | HY |
| CHECKED | AF |
| DATE | 02/27/2027 |

FIRE ALARM SYMBOL LIST AND NOTES

FA—001

## FIRE ALARM SIGNAL CIRCUIT SCHEDULE (EXISTING)

| BLDG. | CKT. NO. | WALL QUAN. STROBE 15 cd 0.043 | WALL QUAN. STROBE 30 cd 0.063 | WALL QUAN. STROBE 75 cd 0.107 | WALL QUAN. STROBE 110cd 0.148 | CEIL. QUAN. STROBE 15cd 0.041 | CEIL. QUAN. STROBE 30cd 0.063 | CEIL. QUAN. STROBE 75cd 0.111 | CEIL. QUAN. STROBE 110cd 0.158 | TOTAL AMPS | WIRE SIZE | DISTANCE (IN FEET) | TO MFACP | TO POWER EXTENDER | PERCENT VOLTAGE DROP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | V1 | 3 | | | | 3 | 1 | 2 | | 0.54 | #12 | 180 | | FCPS-A | 1.33 |
| A | V2 | 3 | | | | 2 | | 1 | | 0.32 | #12 | 100 | | FCPS-A | 0.44 |
| D | V3 | 1 | 2 | | | | 2 | 2 | | 0.52 | #12 | 300 | | FCPS-A | 2.14 |
| E | V4 | | 2 | | | | | 3 | | 0.46 | #12 | 390 | | FCPS-A | 2.47 |
| F | V5 | | 2 | | | | | 4 | | 0.57 | #12 | 460 | | FCPS-B | 3.61 |
| G | V6 | | 2 | | | | | 4 | | 0.57 | #12 | 368 | | FCPS-B | 2.89 |
| B | V7 | 3 | 2 | | | | | 1 | | 0.37 | #12 | 180 | | FCPS-B | 0.91 |
| J/K | V8 | | | | | | | 2 | | 0.22 | #12 | 510 | | FCPS-B | 1.56 |
| H | V9 | 3 | 1 | | | | | 4 | 1 | 0.79 | #12 | 260 | | FCPS-H | 2.85 |
| C | V10 | 3 | | 1 | 1 | | | | 2 | 0.70 | #12 | 290 | | FCPS-C | 2.80 |
| L | V11 | 4 | | | | | | 4 | | 0.62 | #12 | 320 | | FCPS-C | 2.72 |
| M | V12 | | | | | | | 5 | | 0.56 | #12 | 225 | | FCPS-M | 1.72 |
| M | V13 | | | | | | | 3 | | 0.33 | #12 | 200 | | FCPS-M | 0.92 |
| N | V14 | | | | | | | 4 | | 0.44 | #12 | 375 | | FCPS-M | 2.29 |
| (N)RELO | V15 | | | | | | | (E)2-2+(N)1=1 | | 0.11 | #12 | 660 | | FCPS-M | 1.01 |
| | | | | | | | | | | | | | | | |

I = TOTAL CURRENT FLOW IN ALARM CONDITION
L = LENGTH OF CIRCUIT FROM SUPPLY TO LAST DEVICE (IN FEET)
21.6 = RESISTIVITY OF COPPER CONDUCTOR PER CIRCULAR MILL

C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILLS
VOLTAGE DROP = $\frac{(I) \times (L) \times 21.6}{(CM)}$

**BATTERY CALCULATIONS PANEL FACP "SILENT KNIGHT" - 6820EVS (EXISTING)**

| QTY. | DESCRIPTION | STANDBY DEVICE | STANDBY AMPS | ALARM DEVICE | ALARM AMPS |
|---|---|---|---|---|---|
| 1 | 6820EVS | 0.19000 | 0.19000 | 0.25000 | 0.25000 |
| 2 | ADDR. INPUT MOD | 0.00055 | 0.00110 | 0.00055 | 0.00110 |
| 9 | ADDR. MANUAL PULL STATION | 0.00055 | 0.00495 | 0.00055 | 0.00495 |
| 23 | ADDR. RELAY MODULE | 0.00055 | 0.01265 | 0.00055 | 0.01265 |
| 117 | ADDR. HEAT DETECTOR (E)117-4+(N)4=117 | 0.00055 | 0.06435 | 0.00055 | 0.06435 |
| 125 | ADDR. PHOTO SMOKE DET (E)125-4+(N)4=125 | 0.00055 | 0.06875 | 0.00055 | 0.06875 |
| 42 | ADDR. PHOTO-CARBON MONOXIDE SMOKE DET. | 0.00055 | 0.02310 | 0.00055 | 0.02310 |
| 1 | SLC EXPANDER | 0.05500 | 0.05500 | 0.05500 | 0.05500 |
| 1 | EVS-ITN50W | 0.02000 | 0.02000 | 0.02500 | 0.02500 |
| 1 | EVS-VCM | 0.04500 | 0.04500 | 0.04500 | 0.04500 |
| 1 | DACT | 0.03500 | 0.03500 | 0.20000 | 0.20000 |
| 1 | LED ANNUNCIATOR | 0.03500 | 0.03500 | 0.14500 | 0.14500 |
| 27 | SPEAKER 1/2 WATT TAP | 0.00000 | 0.00000 | 0.02000 | 0.54000 |
| 13 | SPEAKER 2 WATT TAP | 0.00000 | 0.00000 | 0.08000 | 1.04000 |
| 12 | SPEAKER 1/4 WATT TAP | 0.00000 | 0.00000 | 0.01000 | 0.12000 |
| 0 | SPEAKER 1 WATT TAP | 0.00000 | 0.00000 | 0.04000 | 0.00000 |
| TOTAL | | | 0.5549 | | 2.5949 |
| | | STANDBY | | ALARM | |
| | | 24 HOURS | 13.3176 | 15 MIN. | 0.6487 |
| | | TOTAL | 13.97 A.H. | | |
| | BATTERY WITH 25% DERATING INCLUDED: | | 17.46 A.H. | | |
| | BATTERY: | | 25 A.H. | | |
| | SPARE: | | 7.54 A.H. | | |

## VOICE EVACUATION CONTROL PANEL SPEAKER CIRCUIT LOAD CALCULATION (EXISTING)

MFG. REC. MAXIMUM LOSS IS: -0.5dB

| SPEAKER CIRCUIT DESCRIPTION | | | PANEL CIRCUIT NUMBER | WIRE GAUGE (18, 16, 14 12) | CIRCUIT VOLTAGE (25 OR 70 VRMS) | APPLIANCES QUANTITIES / TAP VALUES SPEAKER TAPPED AT 0.25 Watts | SPEAKER TAPPED AT 0.5 Watts | SPEAKER TAPPED AT 1 Watt | SPEAKER TAPPED AT 2 Watts | TOTAL CIRCUIT LOAD (WATTS) | ESTIMATED CIRCUIT LENGTH (FEET) | ACTUAL WIRE/LOSS (dB) | MAXIMUM ALLOWABLE CKT. LENGTH (FEET) | TOTAL CIRCUIT RESISTANCE (OHMS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPLIFIER# A | AMPLIFIER LOCATION | CIRCUIT LOCATION | | | | | | | | | | | | |
| AMP-C | PLATFORM BUILDING C | BUILDING C | A5 | 14 AWG | 25 Vrms | 0 | 0 | 4 | 2 | 8.00 Watts | 340 ft. | -0.19 dB | 6,226 ft. | 1.8 Ohms |
| AMP-C | PLATFORM BUILDING C | BUILDING L | A6 | 14 AWG | 25 Vrms | 2 | 4 | 0 | 2 | 6.50 Watts | 390 ft. | -0.18 dB | 7,663 ft. | 2.0 Ohms |
| AMP-C | PLATFORM BUILDING C | BUILDING M | A7 | 14 AWG | 25 Vrms | 0 | 8 | 0 | 3 | 10.00 Watts | 440 ft. | -0.31 dB | 4,981 ft. | 2.3 Ohms |
| AMP-C | PLATFORM BUILDING C | BUILDING N, O, P | A8 | 14 AWG | 25 Vrms | 0 | (E)6-2+(N)1=5 | 0 | (E)1-1+(N)1=1 | 4.50 Watts | 850 ft. | -0.27 dB | 11,069 ft. | 4.4 Ohms |

BUILDING "M"

**BATTERY CALCULATIONS - POWER EXTENDER FAPS-33M (EXISTING)**

| EQUIPMENT MODEL | QUANTITY | SUPERVISORY CURRENT, A UNIT | SUPERVISORY CURRENT, A TOTAL | ALARM CURRENT, A UNIT | ALARM CURRENT, A TOTAL |
|---|---|---|---|---|---|
| POWER SUPPLY 5496 | 1 | 0.04 | 0.04 | 0.16 | 0.16 |
| STROBE (15cd) (WALL) (E)4+(N)2=6 | 6 | 0 | 0 | 0.043 | 0.258 |
| STROBE (30cd) | 0 | 0 | 0 | 0.063 | 0 |
| STROBE (75cd) (CEILING) (E)14-2+(N)1=13 | 13 | 0 | 0 | 0.111 | 1.443 |
| STROBE (110cd) | 0 | 0 | 0 | 0.148 | 0 |

| | | | | | |
|---|---|---|---|---|---|
| STANDBY AH | 0.96 | SUB TOTAL | 0.04 | SUB TOTAL | 1.861 |
| ALARM AH | 0.47 | HOURS | 24.00 | HOURS | 0.25 |
| TOTAL | 1.43 | AH STANDBY | 0.96 | AH ALARM | 0.46525 |

PROVIDE NEW 7 AH BATTERY PACK (0.25 HRS. = 15 MIN.)

**VOICE EVACUATION FIRE ALARM SEQUENCE OF OPERATION (EXISTING)**

| DEVICE / ACTION | MANUAL PULL STATION | AREA SMOKE DETECTORS | SMOKE DETECTOR CARBON MONOXIDE | AREA HEAT DETECTORS | POWER FAILURE | KITCHEN FIRE SUPPRESSION | NOTES |
|---|---|---|---|---|---|---|---|
| ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR | X | X | X | X | | | |
| ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR | X | X | X | X | X | X | |
| ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR | X | X | X | X | X | X | [ 1 ] |
| ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHTOUT SCHOOL (ALARM) | X | X | X | X | | X | |
| CONTACT CENTRAL STATION (UDACT) | X | X | X | X | X | X | |
| SHUT DOWN AIR HANDLING EQUIPMENT | | X | X | X | | | [ 2 ] |
| SHUT-OFF AUTONOMOUS PA | X | X | X | X | | X | [ 3 ] |

[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.

[2] SHUT DOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.

[3] NO EXISTING AUTONOMOUS PA.

BATTERY SIZING CALCULATION

**REMOTE AMPLIFIER - AMP-C (EXISTING)**
**EVS-50W**

| Quantity Device Type | Model Number | Standby Current | Total Standby Current | Alarm Current | Total Alarm Current |
|---|---|---|---|---|---|
| 1 EVS-50W | - | 0.06500 | 0.06500 | 2.00000 | 2.00000 |
| (E)18-2+(N)1=17 Speaker 25V | Speaker - 1/2 Watt Tap | 0.00000 | 0.00000 | 0.02000 | 0.34000 |
| (E)8-1+(N)1=8 Speaker 25V | Speaker - 2 Watt Tap | 0.00000 | 0.00000 | 0.08000 | 0.64000 |
| 2 Speaker 25V | Speaker - 1/4 Watt Tap | 0.00000 | 0.00000 | 0.01000 | 0.02000 |
| 4 Speaker 25V | Speaker - 1 Watt Tap | 0.00000 | 0.00000 | 0.04000 | 0.16000 |
| | | | Standby Load 0.065 | | Alarm Load 3.320 |

Standby Load: 0.000 Amps
Standby Time: 24 Hours
Total Standby Load: 0.00 Amp*Hours

Alarm Load: 0.000 Amps
Alarm Time: 15 Minutes
Total Alarm Load: 0.00 Amp*Hours

Batteries Provided: (2) BAT-12180 — **Available Battery: 0.00** A.H.
Battery Size: 0.00 A.H. — **Load (ALM + STBY) 0.00** A.H.
De-Rated Size(80%): 0.00 A.H. — **Spare Capacity 0.00** A.H.

| SYMBOLS | COMPONENT | SILENT KNIGHT CAT. NO. | CSFM NO. |
|---|---|---|---|
| | FIRE ALARM CONTROL PANEL "MFACP" (VOICE EVAC) | 6820EVS (EXISTING) | 7165-0559:0500 |
| | FIRE ALARM ANNUNCIATOR WITH MIC. | EVS-LOC (EXISTING) | 7165-0559:0500 |
| | FIRE ALARM POWER SUPPLY | 5496 (EXISTING) | 7165-0559:0500 |
| | REMOTE AMPLIFIER | EVS-50W (EXISTING) | 7165-0559:0172 |
| (cd) | CEILING MOUNTED SPEAKER/STROBE | SYSTEM SENSOR SPSCRL | 7320-1653:0505 |
| (cd) | WALL STROBE (15cd) | SYSTEM SENSOR SRL | 7125-1653:0504 |
| SD | SMOKE DETECTOR, PHOTOELECTRIC | SK-PHOTO-W | 7272-0559:0512 |
| | HEAT DETECTOR | SK-HEAT-HT-W | 7270-0559:0511 |
| | | | |

FIRE ALARM SYSTEM DESCRIPTION
FIRE ALARM SUBMITTAL CONSISTS OF COMPLETE FULLY AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM PER DSA POLICY CFC907.2.3.

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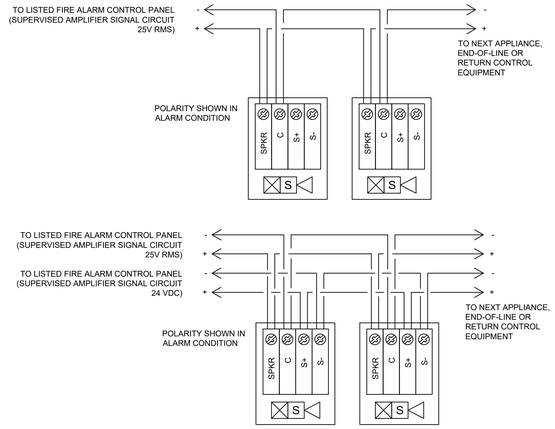
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| CHECKED | AF |
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**FIRE ALARM SCHEDULES AND CALCULATIONS**

**FA-002**

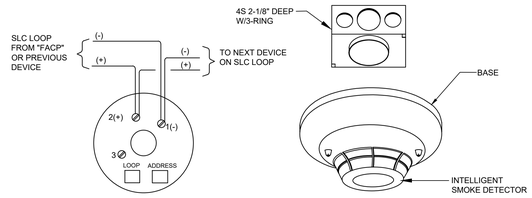
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6 FA-003

## TYPICAL SPEAKER, SPEAKER/STROBE WIRING DIAGRAM

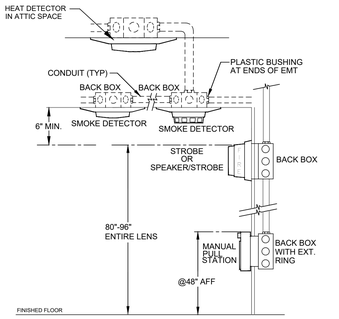
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3 FA-003

## SMOKE AND HEAT DETECTOR

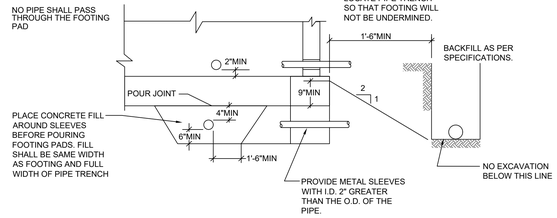
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5 FA-003

## PULL STATION, SPEAKER & STROBE HEIGHT REQUIREMENTS

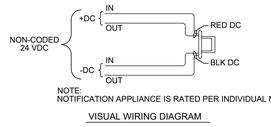
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2 FA-003

## TYPICAL PIPE TRENCH OR DUCT BANK AND FOOTING DETAIL

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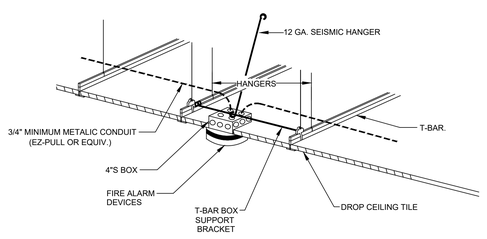

NOTE:
NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

VISUAL WIRING DIAGRAM

4 FA-003

## STROBE LIGHT

N.T.S.




1 FA-003

## TYPICAL (SMOKE DETECTOR,/ SPEAKER-STROBE CEILING MOUNT INSTALLATION DETAIL

N.T.S.

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DATE: 05/09/2024

FILE No.: 19-91 A#: 03-123590

Revisions
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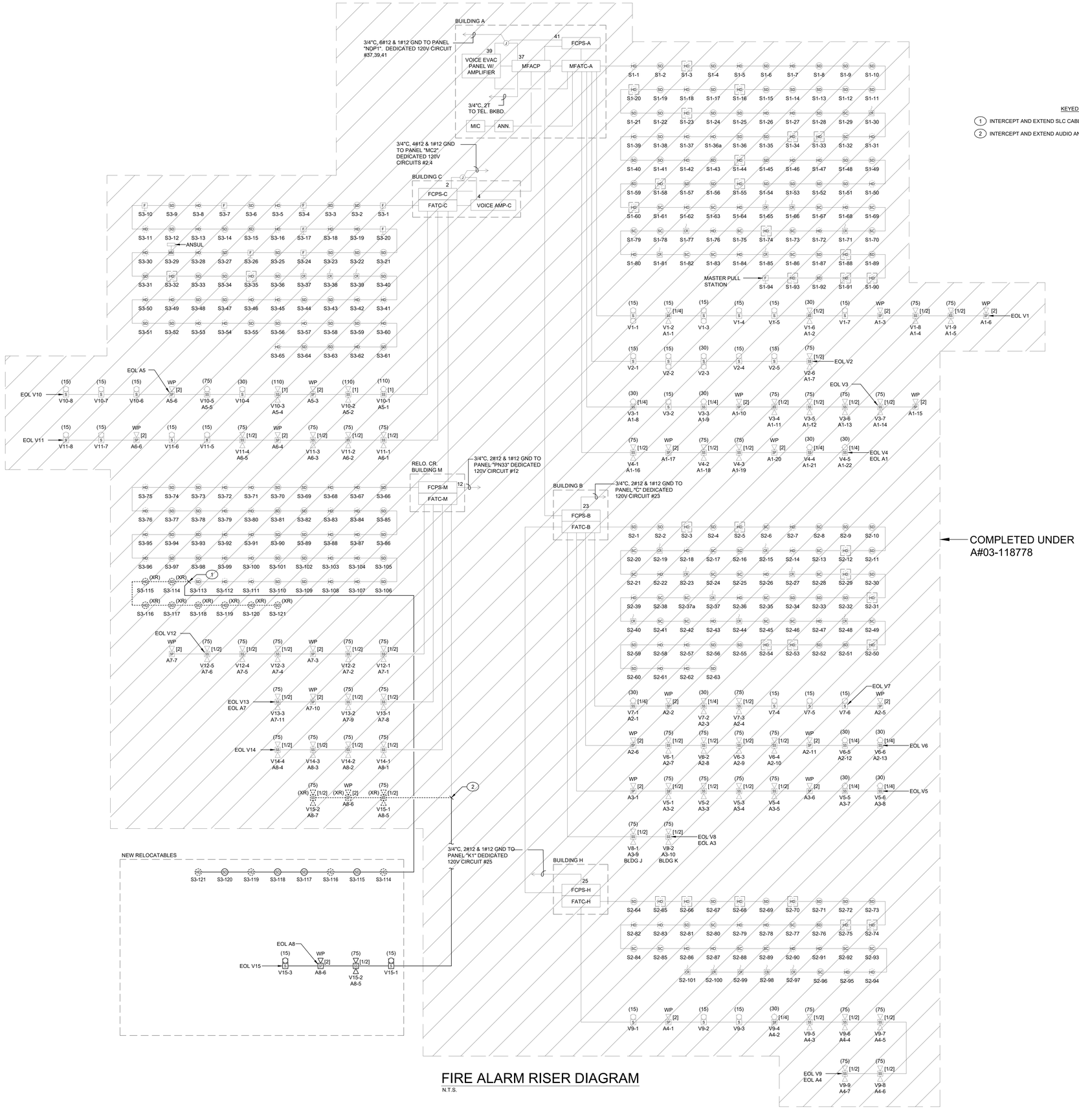
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FIRE ALARM DETAILS

FA-003




# FIRE ALARM RISER DIAGRAM

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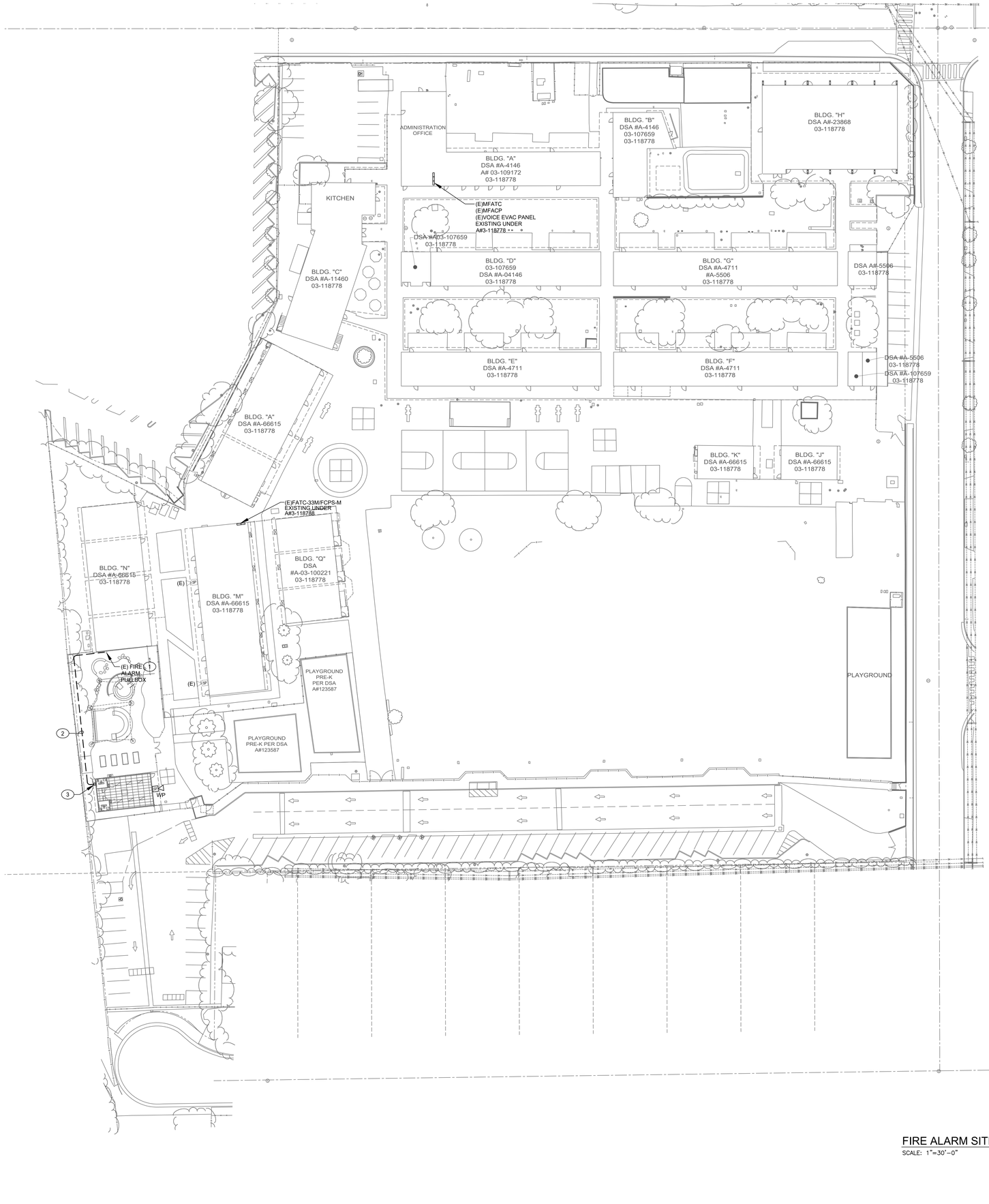
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**FA RISER DIAGRAM**

**FA-004**

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FIRE ALARM SITE PLAN

SCALE: 1"=30'-0"

N

PLAN NORTH

KEYED NOTES

1. INTERCEPT AND EXTEND FIRE ALARM CABLES (SLC, AUDIO, VISUAL) FROM REMOVED CLASSROOMS.
2. 1"C, (1)FW, (1)V, (1)AW (FIRE ALARM).
3. WEATHERPROOF FIRE ALARM PULLBOX 10"x10"x6" DEEP, MOUNT HIGH ON WALL.

EXCAVATION NOTES

CONTRACTOR SHALL FIELD VERIFY UNDERGROUND UTILITIES PRIOR TO WORK (ELECTRICAL CONDUITS, SEWER LINES, WATER LINES, PLUMBING, ETC.). CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND LINES. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING LINES WHERE NEW TRENCHING OCCURS BY USING ELECTRONIC LOCATING DEVICES, DIG ALERT SERVICES, ETC. CONTRACTOR SHALL INCLUDE THE COST OF LOCATING THE EXISTING UNDERGROUND LINES IN THE BID. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO EXISTING LINES.

TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND LINES ARE PRESENT SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION. UNDERGROUND POWER AND SIGNAL PULLBOXES WHERE SHOWN ON THE SITE PLAN DETERMINED TO BE IN CONFLICT WITH EXISTING UNDERGROUND LINES AFTER EXCAVATION BY HAND SHALL BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWINGS.

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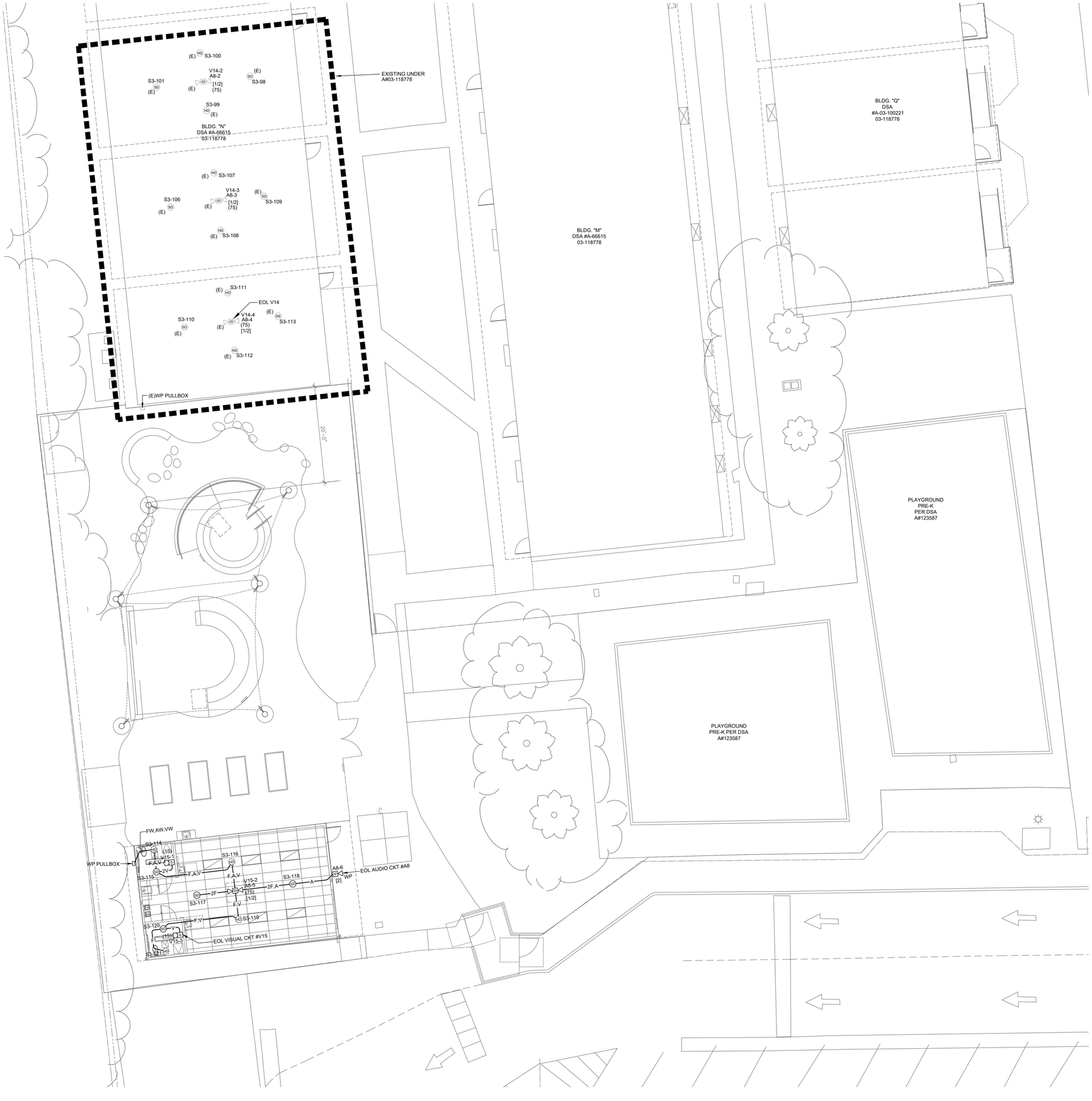
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**FIRE ALARM SITE PLAN**

**FA-101**

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RELOCATABLE FIRE ALARM PLAN

SCALE: 1/8"=1'-0"

N

PLAN NORTH

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FILE No.: 19-91 A#: 03-123590

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**RELOCATABLE FIRE ALARM PLAN**

FA-201

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# MODULAR CLASSROOM BUILDINGS
## (WITH OPTIONAL RESTROOM MODULES)
## BUILDING SIZE: 24' X 40'
## EXPANDABLE TO 120' X 40'
## PC 04-121999

BY


## SILVER CREEK MODULAR, INC.
2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211


## GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL.
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2022 CBC 705.3.
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING.
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS.
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2022 CBC. THE USE OF UNPROTECTED OPENINGS SHALL BE VERIFIED IN THE PROJECT SPECIFIC APPLICATIONS.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1405.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL".
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION.
14. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO THE SAME PC CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR-CEILING SHALL MEET THE MINIMUM REQUIREMENTS OF THE STC RATING OF 40 PER CALGREEN CODE, SECTION 5.507.4.3.
15. FOR THE CONCRETE BELOW GRADE (AMM*) FOUNDATION OPTION THIS PC USES A DSA APPROVED ALTERNATE MEANS OF COMPLIANCE WITH THE FOUNDATION DURABILITY REQUIREMENTS OF CBC 1402.2 + 1403.2 (WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESTISTIVE BARRIER ON WALLS TO FOUNDATION) + 2304.12.1.2 (PROTECTION AGAINST DECAY AND TERMITES). DETAILS ARE PROVIDED ON SHEETS A-5.71 - A-5.78 AS APPLICABLE.
16. THE BUILDING PAD ELEVATION SHALL ABOVE THE DESIGN FLOOD ELEVATION.
17. WHEN THE SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A SEALED LETTER FROM A GEOTECHNICAL ENGINEER SHALL BE PROVIDED TO VALIDATE THE APPLICABILITY OF THE ALLOWABLE SOIL BEARING PRESSURES INDICATED ON THE PC DRAWINGS.
EXCEPTION: THIS LETTER IS NOT REQUIRED FOR PROJECTS LOCATED IN FLOOD ZONE D WHEN A GEOTECHNICAL REPORT IS AVAILABLE FOR IMPROVEMENTS ON THE SAME PROJECT SITE, AND IN ACCORDANCE WITH THE CURRENT CBC, WHICH CONFIRMS THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE OR CONFIRMS THAT THE FLOOD HAZARD DOES NOT RESULT IN A REDUCTION OF SOIL CAPACITY VALUES.

## APPLICABLE STANDARDS

| | | |
|---|---|---|
| NFPA 13 | AUTOMATIC SPRINKLER SYSTEMS (CA. AMENDED) | 2022 EDITION |
| NFPA 72 | NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") | 2022 EDITION |
| ACI 318 | BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE | 2019 EDITION |
| ASME A17.1 (W/A17.1A CSA B44A-2019 ADDENDA) SAFETY CODE FOR ELEVATORS & ESCALATORS. | | 2007 EDITION |

## APPLICABLE CODES

LIST OF 2022 CALIFORNIA CODE OF REGULATIONS

2022 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

## BUILDING DATA

| | | |
|---|---|---|
| NUMBER OF STORIES: | 1 - STORY | |
| OCCUPANCY: | E or B | |
| TYPE OF CONSTRUCTION: | V-B | |
| FLOOR LIVE LOAD: | ☐ 50 PSF | ☐ 50+15 PSF PARTITION LOAD |
| | ☐ 100 PSF | ☐ 150 PSF |
| ROOF LIVE LOAD: | 20 PSF | |
| FLOOR DEAD LOAD: | ☐ WOOD FLOOR - 11 PSF | ☐ CONCRETE FLOOR - 35 PSF |
| ROOF DEAD LOAD: | 18 PSF (INCLUDING SPRINKLER LOAD AND SOLAR ALLOWANCE) | |
| SOLAR ALLOWANCE: | 0.6 PSF OVER ENTIRE ROOF AREA | |
| RAMP LIVE LOAD: | 100 PSF | |
| BUILDING AREA: | ☐ 24'x40' BLDG - 960 S.F. | ☐ 84'x40' BLDG - 3,360 S.F. |
| | ☐ 36'x40' BLDG - 1,440 S.F. | ☐ 96'x40' BLDG - 3,840 S.F. |
| | ☐ 48'x40' BLDG - 1,920 S.F. | ☐ 108'x40' BLDG - 4,320 S.F. ★ |
| ALLOWABLE AREA: 9,000 S.F. | ☐ 60'x40' BLDG - 2,400 S.F. | ☐ 120'x40' BLDG - 4,800 S.F. ★ |
| | ☐ 72'x40' BLDG - 2,880 S.F. | ★ SEE S-0.1 FOR GEOTECHNICAL REPORT REQUIREMENT |
| (ALL w/o OVERHANGS) | | |
| FOUNDATION: | ☐ WOOD (CONDITIONAL) ☐ CONCRETE ABOVE GRADE ☐ CONCRETE BELOW GRADE (<2,160 SF. CONDITIONAL) ☐ CONCRETE BELOW GRADE (AMM. SEE NOTE 15) | |
| CEC CLIMATE ZONE: | ☐ ALL ZONES (1-16) | ☐ SINGLE ZONE (SEE PROJECT SPECIFIC DRAWINGS) |

### ALLOWABLE SOIL PRESSURE

| | |
|---|---|
| WOOD FOOTING (DL & DL+LL & DL+LL+SEISMIC) | 1,000 psf |
| CONCRETE FOOTING (DL & DL+LL & DL+LL+SEISMIC) | 1,500 psf |

### ROOF SNOW LOAD

GROUND SNOW LOAD, $P_g$ FROM COUNTY: 0

ROOF SNOW LOAD: ☐ FLAT $P_f$ OR ☐ LOW-SLOW, $P_{flt}$ OR ☐ SLOPED, $P_s$

| | |
|---|---|
| SNOW EXPOSURE FACTOR $C_s$ | - |
| SNOW IMPORTANCE FACTOR $I_s$ | 1.0 |
| THERMAL FACTOR $C_t$ | - |

### FLOOD DESIGN (SEE GENERAL NOTE #16 + 17)

FLOOD HAZARD AREA YES ☐ NO ☐

### WIND DESIGN

| | |
|---|---|
| BASIC WIND SPEED (3 SECOND GUST) $V_{ult}$ | 120 |
| RISK CATEGORY | II |
| WIND EXPOSURE CATEGORY | C |
| TOPOGRAPHIC FACTOR $K_{zt}$ | 1 |

### SEISMIC DESIGN

| | |
|---|---|
| LATERAL FORCE-RESISTING SYSTEM | OMF |
| ANALYSIS PROCEDURE | EQIV. LATERAL FORCE |
| SEISMIC DESIGN CATAGORY (SDC) | E |
| SEISMIC IMPORTANCE FACTOR $I_e$ | 1.0 |
| SEISMIC RESPONSE COEFFICIENT $C_s$ | 0.45 |
| RESPONSE MODIFICATION COEFFICIENT $R$ | 3.5 |
| SITE CLASS | D |
| MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD $S_s$ | 2.8 |
| SHORT PERIOD SITE COEFFICIENT $F_a$ | 1.2 |
| DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD $S_{DS}$ | 2.23 +++ |
| MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD $S_1$ | 1.064 ++ |
| LONG PERIOD SITE COEFFICIENT, $F_v$ | 1.7 |
| DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD $S_{D1}$ | 1.2 |
| HORIZONTAL OR VERTICAL IRREGULARITY TYPES | NONE |
| REDUNDANCY FACTOR Rho | 1.0 |
| FUNDAMENTAL PERIOD T | < 0.5s |

++ PER SUPPLEMENT 3 OF ASCE 7-16, STRUCTURES SITUATED IN SITE CLASS D WITH S1 VALUES THAT ARE EQUAL TO OR GREATER THAN 0.2 ARE EXEMPTED FROM THE GROUND MOTION HAZARD ANALYSIS. THIS EXEMPTION APPLIES WHEN THE PARAMETER SM1, DETERMINED THROUGH THE USE OF EQ. 11.4-2, IS ELEVATED BY 50% FOR ALL APPLICATIONS OF SM1

+++ FOR THE PURPOSES OF CALCULATING $C_S$ (PER ASCE 7-16 12.8.1.3) $S_{DS}$ = 1.56

FOR SITE SPECIFIC PROJECT

☐ SOLAR PV IS REQUIRED AND REFERENCE SHEET A-0.7
☐ GEOTECH REPORT IS REQUIRED

### SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☐ DESIGN BASED ON SITE CLASS $D_{default}$

NO GEOTECHNICAL INVESTIGATION REQUIRED

Ss = _____ Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

GEOTECHNICAL INVESTIGATION PROVIDED

SITE CLASS: ☐ C ☐ D

Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16

SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, $S_{DS}$, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION

CGS APPROVAL REQUIRED

NOT ELIGIBLE FOR OTC REVIEW

SITE CLASS: ☐ C ☐ D

$S_{DS}$ = ⅔ Fa Ss = _____

☐ SITE CLASS C or D: 0.7 x $S_{DS}$* = 0.7 x _____ = _____ ≤ 2.23

$C_S$ = 0.45 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☐ D ☐ E

* SITE SPECIFIC $S_{DS}$ VALUE BEFORE APPLYING REDUCTION ALLOWED BY ASCE 7 SECTION 12.8.1.3

NOTE:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

## SHEET INDEX


| SHEET | ARCHITECTURAL | SHEET | FOUNDATION |
|---|---|---|---|
| A-0 | COVER SHEET | ~~F-0.01~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (50 PSF)~~ |
| ~~A-0A~~ | ~~T & I FORMS~~ | ~~F-0.02~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (50+15 PSF)~~ |
| ~~A-0B~~ | ~~T & I FORMS~~ | ~~F-0.03~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (100 PSF)~~ |
| A-0.1 | SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE | ~~F-0.04~~ | ~~WOOD FOUNDATION PLAN - 24' x 40' (150 PSF)~~ |
| A-0.2 | SCHEDULES | ~~F-0.11~~ | ~~WOOD FOUNDATION PLAN - 36' x 40' (50 PSF)~~ |
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| ~~A-0.53~~ ☐ | ~~DESIGN ENERGY VALUES - WOOD FLOOR - WALL HVAC~~ | ~~F-0.22~~ | ~~WOOD FOUNDATION PLAN - 48' x 40' (50+15 PSF)~~ |
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| A-3.03 ☐ | ROOF PLAN - 48' TO 120' x 40' - METAL DECK - MONO SLOPE | S-3.01 ☐ | BUILDING SECTION - MONO SLOPE |
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| | | | |
| ~~A-3.31~~ ☐ | ~~ROOF PLAN - 24' x 40' - PARAPET - MONO OR DUAL SLOPE~~ | S-5.00 ☐ | WALL FRAMING ELEVATIONS - WOOD STUDS |
| ~~A-3.32~~ ☐ | ~~ROOF PLAN - 36' x 40' - PARAPET - MONO OR DUAL SLOPE~~ | S-5.10 ☐ | WALL FRAMING DETAILS - WOOD STUDS |
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| ~~A-3.34~~ ☐ | ~~ROOF PLAN - 48' TO 120' x 40' - PARAPET - DUAL SLOPE~~ | ~~S-5.20~~ ☐ | ~~WALL FRAMING ELEVATIONS - STEEL STUDS~~ |
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| A-3.50 ☐ | ROOF DETAILS - STANDING SEAM ROOF DECK | | |
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| ~~A-4.03~~ ☐ | ~~EXTERIOR ELEVATIONS - 36' x 40' - DUAL SLOPE~~ | ~~M-1.01~~ ☐ | ~~MECHANICAL PLAN - WALL MOUNT - 24' x 40'~~ |
| A-4.04 ☐ | EXTERIOR ELEVATIONS - 48' TO 120' x 40' - MONO SLOPE | ~~M-1.02~~ ☐ | ~~MECHANICAL PLAN - WALL MOUNT - 36' x 40'~~ |
| ~~A-4.05~~ ☐ | ~~EXTERIOR ELEVATIONS - 48' TO 120' x 40' - DUAL SLOPE~~ | M-1.03 ☐ | MECHANICAL PLAN - WALL MOUNT - 48' TO 120' x 40' |
| | | | |
| ~~A-4.21~~ ☐ | ~~EXTERIOR ELEVATIONS - 24' x 40' PARAPET - MONO OR DUAL SLOPE~~ | | |
| ~~A-4.22~~ ☐ | ~~EXTERIOR ELEVATIONS - 36' x 40' PARAPET - MONO OR DUAL SLOPE~~ | ~~M-2.01~~ ☐ | ~~MECHANICAL PLAN - ROOF MOUNT - 24' x 40'~~ |
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| | | | |
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| A-5.78 ☐ | DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - STL STUDS | **SHEET** | **RELOCATABLE SHEETS** |
| | | REL-101 ☐ | BUILDING RELOCATION DETAILS |
| A-5.80 ☐ | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS | REL-102 ☐ | BUILDING RELOCATION DETAILS |
| A-5.81 ☐ | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS | | |
| | | | |
| ~~A-6.01~~ ☐ | ~~INTERIOR ELEVATIONS - 24' x 40'~~ | | |
| ~~A-6.02~~ ☐ | ~~INTERIOR ELEVATIONS - 36' x 40'~~ | | |
| A-6.03 ☐ | INTERIOR ELEVATIONS - 48' TO 120' x 40' | | |


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
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PROJECT NAME:

SHEET TITLE:

## COVER SHEET

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0

2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. |
| **Periodic** – Indicates that a periodic special inspection is required | **LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. |
| **Test** – Indicates that a test is required | **PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. |
| | **SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

| | S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements. | Periodic | * | Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| ☑ | b. Test unidentified materials | Test | LOR | 2202A.1. |
| ☑ | c. Examine seam welds of HSS shapes | Periodic | SI | DSA IR 17-3. |
| ☑ | d. Verify and document steel fabrication per DSA-approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). |
| ☐ | e. Buckling restrained braces. | Test | LOR | Testing and special inspections in accordance with IR 22-4. |

| | S/A2. HIGH-STRENGTH BOLTS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI | Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |
| ☐ | b. Test high-strength bolts, nuts and washers. | Test | LOR | Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8. |
| ☐ | c. Bearing-type ("snug tight") connections. | Periodic | SI | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9. |
| ☐ | d. Pretensioned and slip-critical connections. | * | SI | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used. |
| | S/A3. WELDING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| ☑ | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| ☑ | c. Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |

| | S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3): | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | c. Inspect welding of stairs and railing systems. | Periodic | SI | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| ☐ | d. Verification of reinforcing steel weldability other than ASTM A706. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | e. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | b. Inspect single-pass fillet welds ≤ 5/16". | Periodic | SI | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | c. Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic | SI | 2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |
| ☐ | d. Inspect floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |
| ☐ | e. Inspect welding of structural cold-formed steel. | Periodic | SI* | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | f. Inspect welding of stairs and railing systems. | Periodic | SI* | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | g. Verification of reinforcing steel weldability. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | h. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A6. NONDESTRUCTIVE TESTING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Ultrasonic | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☑ | b. Magnetic Particle | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☐ | c. | Test | LOR | |

| | S/A7. STEEL JOISTS AND TRUSSES: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | Continuous | SI | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A8. SPRAYED FIRE-RESISTANT MATERIALS: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI | 1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4. |
| ☐ | b. Test density. | Test | LOR | 1705A.15.1, 1705A.15.5, ASTM E736 |
| ☐ | c. Bond strength adhesion/cohesion. | Test | LOR | 1705A.15.1, 1705A.15.4, ASTM E605 |

| | S/A9. ANCHOR BOLTS AND ANCHOR RODS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Anchor Bolts and Anchor Rods | Test | LOR | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11. |
| ☑ | b. Threaded rod not used for foundation anchorage. | Test | LOR | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11. |

| | S/A10. STORAGE RACK SYSTEMS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Periodic | SI | Table 1705A.13.7 |
| ☐ | b. Fabricated storage rack elements. | Periodic | SI | 1704A.2.5; Table 1705A.13.7 |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Storage rack anchorage installation. | Periodic | SI | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7 |
| ☐ | d. Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI* | Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA. |

| | S/A11. Other Steel | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. | | | |

**Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections**

| Application Number: 04-122203 | School Name: Silver Creek Modular | School District: Silver Creek Modular |
|---|---|---|
| DSA File Number: 33 silver | Increment Number: | Date Created: 2023-08-25 09:27:21 |

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

| | SOILS: |
|---|---|
| ☐ | 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade. |
| ☐ | 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill. |

| | CONCRETE/MASONRY: |
|---|---|
| ☐ | 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below |
| ☐ | 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section. |
| ☐ | 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition. |
| ☐ | 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete. |
| | CONCRETE/MASONRY: |
| ☐ | 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. |

| | WELDING: |
|---|---|
| ☐ | 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof. |
| ☐ | 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush. |
| ☐ | 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud. |
| ☐ | 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above). |
| ☐ | 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above). |
| ☐ | 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above). |
| ☐ | 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems. |

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

| Application Number: 04-122203 | School Name: Silver Creek Modular | School District: Silver Creek Modular |
|---|---|---|
| DSA File Number: 33 silver | Increment Number: | Date Created: 2023-08-25 09:27:21 |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

PERMANENT WOOD FOUNDATION 5

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

| | SOILS: |
|---|---|
| ☐ | 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade. |
| ☐ | 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill. |

| | CONCRETE/MASONRY: |
|---|---|
| ☐ | 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below |
| ☐ | 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section. |
| ☐ | 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition. |
| ☐ | 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete. |

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

| Application Number: 04-122203 | School Name: Silver Creek | School District: Silver Creek |
|---|---|---|
| DSA File Number: 33 Silver Creek | Increment Number: | Date Created: 2023-08-13 22:14:55 |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

STOCKPILE CONCRETE FLOOR, CONT. 3

The example form DSA 103 sections shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and the example sections shown on this drawing are to be crossed out.

- UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
- UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
- MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

GENERAL 103-22 NOTES 4

2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. |
| **Periodic** – Indicates that a periodic special inspection is required | **LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. |
| **Test** – Indicates that a test is required | **PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. |
| | **SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

| | C1. CAST-IN-PLACE CONCRETE | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify use of required design mix. | Periodic | SI | Table 1705A.3 Item 5, 1910A.1. |
| ☑ | b. Identify, sample, and test reinforcing steel. | Test | LOR | 1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.) |
| ☑ | c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test | LOR | Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12. |
| ☑ | d. Test concrete (f'c). | Test | LOR | 1905A.1.17; ACI 318-19 Section 26.12. |
| ☑ | e. Batch plant inspection: Periodic | See Notes | SI | Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| ☐ | f. Welding of reinforcing steel. | Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below. | | |

| | C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1): | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Sample and test prestressing tendons and anchorages. | Test | LOR | 1705A.3.4, 1910A.3 |
| ☐ | b. Inspect placement of prestressing tendons. | Periodic | SI | 1705A.3.4, Table 1705A.3 Items 1 & 9. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons. | Periodic | SI | Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing. |
| ☐ | d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | Continuous | SI | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13 |

| | C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1): | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect fabrication of precast concrete members. | Continuous | SI | ACI 318-19 Section 26.13. |
| ☐ | b. Inspect erection of precast concrete members. | Periodic | SI* | Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA. |
| ☐ | c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. | Continuous | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |
| ☐ | d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5. | Periodic | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |
| | C4. SHOTCRETE (IN ADDITION TO SECTION C1): | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect shotcrete placement for proper application techniques. | Continuous | SI | 1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16. |
| ☐ | b. Sample and test shotcrete (f'c). | Test | LOR | 1908A.2, 1705A.3.9 |

| | C5. POST-INSTALLED ANCHORS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect installation of post-installed anchors | See Notes | SI* | 1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | b. Test post-installed anchors. | Test | LOR | 1910A.5. (See Appendix (end of this form) for exemptions.) |

| | C6. OTHER CONCRETE: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. | | | |
| | S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements. | Periodic | * | Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| ☑ | b. Test unidentified materials | Test | LOR | 2202A.1. |
| ☑ | c. Examine seam welds of HSS shapes | Periodic | SI | DSA IR 17-3. |
| ☑ | d. Verify and document steel fabrication per DSA-approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). |
| ☐ | e. Buckling restrained braces. | Test | LOR | Testing and special inspections in accordance with IR 22-4. |

| | S/A2. HIGH-STRENGTH BOLTS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI | Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |
| ☐ | b. Test high-strength bolts, nuts and washers. | Test | LOR | Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8. |
| ☐ | c. Bearing-type ("snug tight") connections. | Periodic | SI | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9. |
| ☐ | d. Pretensioned and slip-critical connections. | * | SI | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used. |
| | S/A3. WELDING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| ☑ | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| ☑ | c. Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |

| | S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3): | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | c. Inspect welding of stairs and railing systems. | Periodic | SI | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| ☐ | d. Verification of reinforcing steel weldability other than ASTM A706. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | e. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | b. Inspect single-pass fillet welds ≤ 5/16". | Periodic | SI | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | c. Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic | SI | 2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |
| ☐ | d. Inspect floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |
| ☐ | e. Inspect welding of structural cold-formed steel. | Periodic | SI* | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | f. Inspect welding of stairs and railing systems. | Periodic | SI* | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | g. Verification of reinforcing steel weldability. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | h. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A6. NONDESTRUCTIVE TESTING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Ultrasonic | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☑ | b. Magnetic Particle | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☐ | c. | Test | LOR | |

| | S/A7. STEEL JOISTS AND TRUSSES: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | Continuous | SI | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A8. SPRAYED FIRE-RESISTANT MATERIALS: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI | 1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4. |
| ☐ | b. Test density. | Test | LOR | 1705A.15.1, 1705A.15.5, ASTM E736 |
| ☐ | c. Bond strength adhesion/cohesion. | Test | LOR | 1705A.15.1, 1705A.15.4, ASTM E605 |

| | S/A9. ANCHOR BOLTS AND ANCHOR RODS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Anchor Bolts and Anchor Rods | Test | LOR | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11. |
| ☑ | b. Threaded rod not used for foundation anchorage. | Test | LOR | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11. |

| | S/A10. STORAGE RACK SYSTEMS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Periodic | SI | Table 1705A.13.7 |
| ☐ | b. Fabricated storage rack elements. | Periodic | SI | 1704A.2.5; Table 1705A.13.7 |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Storage rack anchorage installation. | Periodic | SI | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7 |
| ☐ | d. Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI* | Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA. |

| | S/A11. Other Steel | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. | | | |

STOCKPILE CONCRETE FLOOR 3

2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. |
| **Periodic** – Indicates that a periodic special inspection is required | **LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. |
| **Test** – Indicates that a test is required | **PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. |
| | **SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

| | S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements. | Periodic | * | Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| ☑ | b. Test unidentified materials | Test | LOR | 2202A.1. |
| ☑ | c. Examine seam welds of HSS shapes | Periodic | SI | DSA IR 17-3. |
| ☑ | d. Verify and document steel fabrication per DSA-approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). |
| ☐ | e. Buckling restrained braces. | Test | LOR | Testing and special inspections in accordance with IR 22-4. |

| | S/A2. HIGH-STRENGTH BOLTS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI | Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |
| ☐ | b. Test high-strength bolts, nuts and washers. | Test | LOR | Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8. |
| ☐ | c. Bearing-type ("snug tight") connections. | Periodic | SI | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9. |
| ☐ | d. Pretensioned and slip-critical connections. | * | SI | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used. |
| | S/A3. WELDING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| ☑ | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| ☑ | c. Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |

| | S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3): | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | c. Inspect welding of stairs and railing systems. | Periodic | SI | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| ☐ | d. Verification of reinforcing steel weldability other than ASTM A706. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | e. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | b. Inspect single-pass fillet welds ≤ 5/16". | Periodic | SI | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | c. Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic | SI | 2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |
| ☐ | d. Inspect floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |
| ☐ | e. Inspect welding of structural cold-formed steel. | Periodic | SI* | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | f. Inspect welding of stairs and railing systems. | Periodic | SI* | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | g. Verification of reinforcing steel weldability. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | h. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A6. NONDESTRUCTIVE TESTING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Ultrasonic | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☑ | b. Magnetic Particle | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☐ | c. | Test | LOR | |

| | S/A7. STEEL JOISTS AND TRUSSES: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | Continuous | SI | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |
| | S/A8. SPRAYED FIRE-RESISTANT MATERIALS: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI | 1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4. |
| ☐ | b. Test density. | Test | LOR | 1705A.15.1, 1705A.15.5, ASTM E736 |
| ☐ | c. Bond strength adhesion/cohesion. | Test | LOR | 1705A.15.1, 1705A.15.4, ASTM E605 |

| | S/A9. ANCHOR BOLTS AND ANCHOR RODS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Anchor Bolts and Anchor Rods | Test | LOR | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11. |
| ☑ | b. Threaded rod not used for foundation anchorage. | Test | LOR | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11. |

| | S/A10. STORAGE RACK SYSTEMS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Periodic | SI | Table 1705A.13.7 |
| ☐ | b. Fabricated storage rack elements. | Periodic | SI | 1704A.2.5; Table 1705A.13.7 |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Storage rack anchorage installation. | Periodic | SI | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7 |
| ☐ | d. Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI* | Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA. |

| | S/A11. Other Steel | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. | | | |

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

| | SOILS: |
|---|---|
| ☐ | 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade. |
| ☐ | 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill. |

| | CONCRETE/MASONRY: |
|---|---|
| ☐ | 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below |
| ☐ | 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section. |
| ☐ | 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition. |
| ☐ | 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete. |
| | CONCRETE/MASONRY: |
| ☐ | 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. |

| | WELDING: |
|---|---|
| ☐ | 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof. |
| ☐ | 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush. |
| ☐ | 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud. |
| ☐ | 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above). |
| ☐ | 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above). |
| ☐ | 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above). |
| ☐ | 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems. |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

STOCKPILE WOOD FLOOR 2

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. |
| **Periodic** – Indicates that a periodic special inspection is required | **LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. |
| **Test** – Indicates that a test is required | **PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. |
| | **SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

| | S1. GENERAL: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity. | Periodic | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.) |

| | S2. SOIL COMPACTION AND FILL: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Perform classification and testing of fill materials. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| ☑ | b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.) |
| ☑ | c. Compaction testing. | Test | LOR* | * Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.) |
| | S3. DRIVEN DEEP FOUNDATIONS (PILES): | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Verify pile materials, sizes and lengths comply with the requirements. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | b. Determine capacities of test piles and conduct additional load tests as required. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| ☐ | c. Inspect driving operations and maintain complete and accurate records for each pile. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | e. Steel piles. | Provide tests and inspections per STEEL section below. | | |
| ☐ | f. Concrete piles and concrete filled piles. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge. | * | * | * As defined on drawings or specifications. |

| | S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Note |
| ☐ | a. Inspect drilling operations and maintain complete and accurate records for each pier. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.) |
| | Test or Special Inspection | Type | Performed By | Code References and Note |
| ☐ | b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.) |
| ☐ | c. Confirm adequate end strata bearing capacity. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.) |
| ☐ | d. Concrete piers. | Provide tests and inspections per CONCRETE section below. | | |

| | S5. RETAINING WALLS: | | | |
|---|---|---|---|---|
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Placement, compaction and inspection of backfill. | Continuous | GE* | 1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above). |
| ☐ | b. Placement of soil reinforcement and/or drainage devices. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. See DSA IR 18-2. |
| ☐ | d. Concrete retaining walls. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | e. Masonry retaining walls. | Provide tests and inspections per MASONRY section below. | | |
| | S6. OTHER SOILS: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Soil Improvements | Test | GE* | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative. |
| ☐ | b. Inspection of Soil Improvements | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | c. | | | |

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

| | SOILS: |
|---|---|
| ☐ | 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade. |
| ☐ | 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill. |

| | CONCRETE/MASONRY: |
|---|---|
| ☐ | 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below |
| ☐ | 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section. |
| ☐ | 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition. |
| ☐ | 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete. |
| | CONCRETE/MASONRY: |
| ☐ | 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. |

| | WELDING: |
|---|---|
| ☐ | 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof. |
| ☐ | 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush. |
| ☐ | 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud. |
| ☐ | 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above). |
| ☐ | 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above). |
| ☐ | 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above). |
| ☐ | 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems. |

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

| Application Number: 04-122203 | School Name: Silver Creek | School District: Silver Creek |
|---|---|---|
| DSA File Number: 33 Silver Creek | Increment Number: | Date Created: 2023-08-13 22:05:10 |

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293



SOILS REPORT REQUIRED 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc


PROJECT NAME:

SHEET TITLE:

# T & I FORMS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0A

DSA **1-AMM**

## REQUEST FOR ALTERNATE DESIGN, MATERIALS & METHODS OF CONSTRUCTION

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

This form is used in conjunction with *DSA Procedure PR 18-01: Request for Alternate Design, Materials and Methods of Construction*. Please print or type all information or you may complete online and print for signatures. All fields must be completed. Attach additional sheets as necessary. For requests applicable to CCDs, attach the completed form to form *DSA 140: Application for Approval of Construction Change Document – CCD A/B*.

**1. PROJECT INFORMATION**

| | |
|---|---|
| Name of Facility: Silver Creek PCs | DSA File #: 33 - silvercreek |
| Project Scope: PC Relocatable Designs | DSA App.#: 04 - |
| School District: Silver Creek Modular Inc | Increment # *(if applicable)*: |
| School District Mailing Address: 2830 Barrett Ave | |
| City: Perris | State: CA Zip Code: 92571 |

**2. CONTACT INFORMATION**

| | |
|---|---|
| **A. Facilities Director:** Jack Shively | |
| Work Email: jshively@silvercreekmodular.com | Work Phone: (951) 943-5393 |
| **B. Firm Architect/Engineer:** Jack Starlin | |
| Work Email: jstarlin@silvercreekmodular.com | Work Phone: (951) 943-5393 |
| **C. Architect/Engineer Of Record:** Jack Starlin | |
| Work Email: jstarlin@silvercreekmodular.com | Work Phone: (951) 943-5393 |

**3. TYPE OF REVIEW REQUESTED**

☑ Structural ☐ Fire & Life Safety

**4. PURPOSE OF REVIEW REQUEST**

☐ Use of Alternate Materials ☑ Propose Alternate Design ☑ Alternate Method of Construction

Applicable Code(s) and Edition: 2022 CBC

Applicable Code Section(s): 2304.12.1.2

**5. DESCRIPTION OF CONDITION** *(Add additional pages if necessary)*

2304.12.1.2 requires the use of naturally durable or preservative treated wood where the wall is in close proximity to ground level. The proposed alternate design/method utilizes an adhered moisture flashing and termite barrier to provide protection in lieu of preservative treated wood in the area adjacent to ground level.

The system consists of a single layer of adhered flashing roll (Polyguard TERM Flashing Moisture/Termite Barrier) which is installed in the factory and which extends up the wall not less than 8" while covering the joint between the bottom plate of the wall and the floor structure. When the building modules are installed on site a 2nd layer of adhered flashing roll is continued down into the foundation in order to cover the joint between the floor structure and the foundation wall. Galvanized flashing is then installed over the adhered flashing roll. The galvanized flashing continues up the wall 6" from the ground level and below grade to protect the adhered flashing roll.

DGS DSA 1-AMM (iss 01/31/18) Page 1 of 2
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

DSA 1-AMM

## REQUEST FOR ALTERNATE DESIGN, MATERIALS & METHODS OF CONSTRUCTION

**6. DESCRIPTION OF REQUESTED ALTERNATE** *(Describe the equivalency for each of the following criteria: suitability, strength, effectiveness, fire resistance, durability, safety and sanitation. Indicate N/A when not applicable.)*

| | |
|---|---|
| **A. Suitability:** | The proposed product/flashing system is specifically intended to be used at base of wall conditions in order to water proof the joint and to provide a termite barrier. |
| **B. Strength:** | N/A |
| **C. Effectiveness:** | The protection membrane is directly adhered to the wall sheathing, floor structure and foundation to create a continuous barrier which restricts moisture transfer and pest intrusion. The membrane is a class 1 barrier with a perm rating of 0.035. |
| **D. Fire Resistance:** | N/A |
| **E. Durability:** | The adhered flashing is intended to be a permanent installation not requiring regular maintenance. In addition to the adhered flashing membrane we are providing a galvanized metal flashing at ground level to provide protection from abuse. |
| **F. Safety:** | The system has no impact on occupant safety after installation. The safety requirements during installation are similar to other adhesive products. |
| **G. Sanitation:** | The system does not require any specific cleaning or maintenance after installation. The installed system provides a more sanitary interior environment due to the continuous barrier to pest intrusion that is provided by the membrane. |

**IDENTIFICATION OF SUPPORTING DOCUMENTATION** *(List all; attach copies of data.)*

1. Proposed base of wall flashing details.

*FOR DSA USE ONLY*

| Discipline | Reviewer | Return Date | Accepted Date | Rejected Date |
|---|---|---|---|---|
| SS | | | | |
| FLS | | | | |
| ACS | | | | |

**DSA Special Conditions or Restrictions:**

**Notes:** *(Add comments or rationale relating to above)*

DGS DSA 1-AMM (iss 01/31/18) Page 2 of 2
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

BELOW GRADE FOUNDATION (AMM) 5

2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required<br>**Periodic** – Indicates that a periodic special inspection is required<br>**Test** – Indicates that a test is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.<br>**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.<br>**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>**SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

C1. CAST-IN-PLACE CONCRETE

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☑ | a. Verify use of required design mix. | Periodic | SI | Table 1705A.3 Item 5, 1910A.1. |
| ☑ | b. Identifiy, sample, and test reinforcing steel. | Test | LOR | 1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.) |
| ☑ | c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test | LOR | Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12. |
| ☑ | d. Test concrete (f'c). | Test | LOR | 1905A.1.17; ACI 318-19 Section 26.12. |
| ☑ | e. Batch plant inspection: Periodic | See Notes | SI | Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| ☐ | f. Welding of reinforcing steel. | Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below. | | |

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Sample and test prestressing tendons and anchorages. | Test | LOR | 1705A.3.4, 1910A.3 |
| ☐ | b. Inspect placement of prestressing tendons. | Periodic | SI | 1705A.3.4, Table 1705A.3 Items 1 & 9. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons. | Periodic | SI | Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing. |
| ☐ | d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | Continuous | SI | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13 |

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Inspect fabrication of precast concrete members. | Continuous | SI | ACI 318-19 Section 26.13. |
| ☐ | b. Inspect erection of precast concrete members. | Periodic | SI* | Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA. |
| ☐ | c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. | Continuous | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |
| ☐ | d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5. | Periodic | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Inspect shotcrete placement for proper application techniques. | Continuous | SI | 1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16. |
| ☐ | b. Sample and test shotcrete (f'c). | Test | LOR | 1908A.2, 1705A.3.9 |

C5. POST-INSTALLED ANCHORS:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Inspect installation of post-installed anchors | See Notes | SI* | 1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | b. Test post-installed anchors. | Test | LOR | 1910A.5. (See Appendix (end of this form) for exemptions.) |

C6. OTHER CONCRETE:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. | | | |

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

- ☐ 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
- ☐ 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:

- ☐ 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
- ☐ 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
- ☐ 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
- ☐ 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

CONCRETE/MASONRY:

- ☐ 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:

- ☐ 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
- ☐ 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
- ☐ 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
- ☐ 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).

RELO CONCRETE FOUNDATION 4


2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required<br>**Periodic** – Indicates that a periodic special inspection is required<br>**Test** – Indicates that a test is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.<br>**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.<br>**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>**SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

- ☐ 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
- ☐ 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:

- ☐ 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
- ☐ 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
- ☐ 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
- ☐ 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
- ☐ 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:

- ☐ 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
- ☐ 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
- ☐ 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
- ☐ 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).

- ☐ 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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RELO WOOD FOUNDATION 3

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| | S/A8. SPRAYED FIRE-RESISTANT MATERIALS: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI | 1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4. |
| ☐ | b. Test density. | Test | LOR | 1705A.15.1, 1705A.15.5, ASTM E736 |
| ☐ | c. Bond strength adhesion/cohesion. | Test | LOR | 1705A.15.1, 1705A.15.4, ASTM E605 |

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☑ | a. Anchor Bolts and Anchor Rods | Test | LOR | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11. |
| ☑ | b. Threaded rod not used for foundation anchorage. | Test | LOR | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11. |

S/A10. STORAGE RACK SYSTEMS:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Periodic | SI | Table 1705A.13.7 |
| ☐ | b. Fabricated storage rack elements. | Periodic | SI | 1704A.2.5; Table 1705A.13.7 |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Storage rack anchorage installation. | Periodic | SI | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7 |
| ☐ | d. Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI* | Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA. |

S/A11. Other Steel

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. | | | |


Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

- ☐ 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
- ☐ 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:

- ☐ 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
- ☐ 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
- ☐ 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
- ☐ 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

CONCRETE/MASONRY:

- ☐ 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:

- ☐ 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
- ☐ 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
- ☐ 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
- ☐ 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
- ☐ 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
- ☐ 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.


### DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

| | | |
|---|---|---|
| **Application Number:** 04-122203 | **School Name:** Silver Creek Modular | **School District:** Silver Creek Modular |
| **DSA File Number:** 33 silver | **Increment Number:** | **Date Created:** 2023-08-25 09:35:51 |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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PERMANENT WOOD / CONCRETE FLOORS
CONCRETE FOUNDATION - CONT. 1

The example form DSA 103 sections shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and the example sections shown on this drawing are to be crossed out.

- UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
- UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
- MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

GENERAL 103-22 NOTES 2


2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required<br>**Periodic** – Indicates that a periodic special inspection is required<br>**Test** – Indicates that a test is required | **GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.<br>**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.<br>**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>**SI (Special Inspection)** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |

C1. CAST-IN-PLACE CONCRETE

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☑ | a. Verify use of required design mix. | Periodic | SI | Table 1705A.3 Item 5, 1910A.1. |
| ☑ | b. Identifiy, sample, and test reinforcing steel. | Test | LOR | 1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.) |
| ☑ | c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test | LOR | Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12. |
| ☑ | d. Test concrete (f'c). | Test | LOR | 1905A.1.17; ACI 318-19 Section 26.12. |
| ☑ | e. Batch plant inspection: Periodic | See Notes | SI | Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| ☐ | f. Welding of reinforcing steel. | Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below. | | |

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Sample and test prestressing tendons and anchorages. | Test | LOR | 1705A.3.4, 1910A.3 |
| ☐ | b. Inspect placement of prestressing tendons. | Periodic | SI | 1705A.3.4, Table 1705A.3 Items 1 & 9. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons. | Periodic | SI | Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing. |
| ☐ | d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | Continuous | SI | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13 |

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Inspect fabrication of precast concrete members. | Continuous | SI | ACI 318-19 Section 26.13. |
| ☐ | b. Inspect erection of precast concrete members. | Periodic | SI* | Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA. |
| ☐ | c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. | Continuous | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |
| ☐ | d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5. | Periodic | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Inspect shotcrete placement for proper application techniques. | Continuous | SI | 1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16. |
| ☐ | b. Sample and test shotcrete (f'c). | Test | LOR | 1908A.2, 1705A.3.9 |

C5. POST-INSTALLED ANCHORS:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Inspect installation of post-installed anchors | See Notes | SI* | 1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | b. Test post-installed anchors. | Test | LOR | 1910A.5. (See Appendix (end of this form) for exemptions.) |


C6. OTHER CONCRETE:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. | | | |
| | S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements. | Periodic | * | Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| ☑ | b. Test unidentified materials | Test | LOR | 2202A.1. |
| ☑ | c. Examine seam welds of HSS shapes | Periodic | SI | DSA IR 17-3. |
| ☑ | d. Verify and document steel fabrication per DSA-approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). |
| ☐ | e. Buckling restrained braces. | Test | LOR | Testing and special inspections in accordance with IR 22-4. |

S/A2. HIGH-STRENGTH BOLTS:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI | Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |
| ☐ | b. Test high-strength bolts, nuts and washers. | Test | LOR | Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8. |
| ☐ | c. Bearing-type ("snug tight") connections. | Periodic | SI | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9. |
| ☐ | d. Pretensioned and slip-critical connections. | * | SI | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used. |
| | S/A3. WELDING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| ☑ | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| ☑ | c. Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☑ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | c. Inspect welding of stairs and railing systems. | Periodic | SI | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| ☐ | d. Verification of reinforcing steel weldability other than ASTM A706. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | e. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☐ | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | b. Inspect single-pass fillet welds ≤ 5/16". | Periodic | SI | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | c. Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic | SI | 2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |
| ☐ | d. Inspect floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |
| ☐ | e. Inspect welding of structural cold-formed steel. | Periodic | SI* | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | f. Inspect welding of stairs and railing systems. | Periodic | SI* | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | g. Verification of reinforcing steel weldability. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | h. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| | S/A6. NONDESTRUCTIVE TESTING: | | | |
| | Test or Special Inspection | Type | Performed By | Code References and Notes |
| ☑ | a. Ultrasonic | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☑ | b. Magnetic Particle | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☐ | c. | Test | LOR | |

S/A7. STEEL JOISTS AND TRUSSES:

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | Continuous | SI | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |

PERMANENT WOOD / CONC. FLRS - CONC. FOUNDATION 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# T & I FORMS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

# A-0B

# REFLECTED CEILING NOTES

**1. CEILING SYSTEM GENERAL NOTES**

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

| | |
|---|---|
| Manufacturer: | Armstrong |
| Evaluation Report Type and Number: | ICC ESR-1308 |
| Main Runner Part, Model, or Catalog Number: | 7301 |
| Cross Runner Part, Model, Catalog Number: | XL7328 |

1.04 Seismic Wall Clip:

| | |
|---|---|
| Manufacturer's Model: | BERC-2 |

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

**2. MATERIALS**

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (FY) of 30 ksi and minimum ultimate strength (FU) of 48 ksi.

**3. ATTACHMENT OF HANGER AND BRACING WIRES**

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

**4. FASTENERS AND WELDING**

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: [RDP to indicate manufacturer, product, evaluation report number and test load for each size specified per CBC 1910A.5.4.]
4.03 Power-Actuated Fasteners shall be: [RDP to indicate manufacturer, product, evaluation report number.]
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

**5. TESTING**

5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

**6. LUMINAIRES**

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

**7. SERVICES WITHIN THE CEILING**

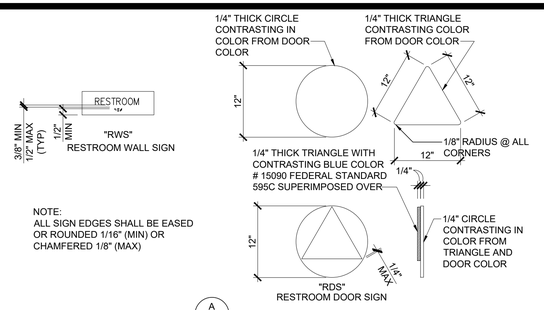
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

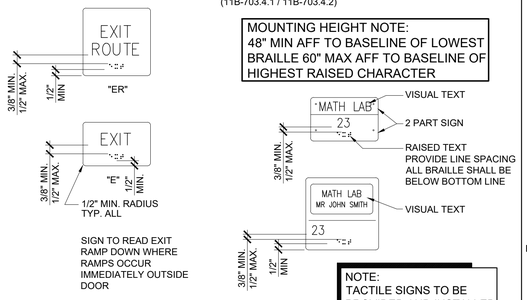
**8. OTHER DEVICES WITHIN THE CEILING**

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

NOTE:
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

NOTE:
PER CBC SECTION 718.2.1, FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS




## SIGNAGE TEMPLATES

COORDINATE WITH SIGNAGE NOTES (BELOW)

## SIGNAGE NOTES

**1. CHARACTER TYPE:** CHARACTERS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE NOTE 5 BELOW) 11B-703.2.1 & 11B-703.2.2 &11B-703.23.

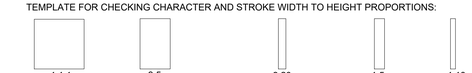
**2. RAISED CHARACTER HEIGHT:** CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

**3. FINISH AND CONTRAST:** SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH SYMBOLS. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 11B-703.7.1.

**4. PROPORTIONS:** RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. 11B-703.2.4 + 11B-703.2.6

VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER ' I '. STROKE THICKNESS OF THE UPPER CASE ' I ' SHALL BE 10% MIN. AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

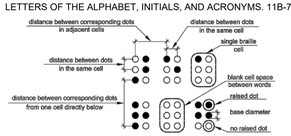


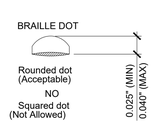
| 1:1:1 | 3:5 | 3:20 | 1:5 | 1:10 |
|---|---|---|---|---|
| 110% | 60% | 15% | 20% | 10% |
| TACTILE + VISUAL CHARACTER WIDTH | | TACTILE STROKE WIDTH | VISUAL STROKE WIDTH | |

**5. CHARACTER SPACING:** CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX). WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE BASE OF THE CROSS SECTIONS, AND 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" (MIN). 11B-703.2.7

**6. LINE SPACING:** SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% (MIN) AND 170% (MAX) OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

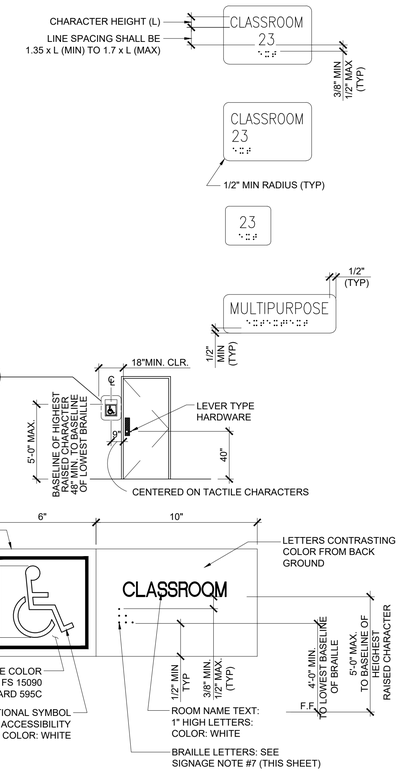
**7. BRAILLE:** BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 11B-703.3.1.




| MEASUREMENT RANGE | MINIMUM IN INCHES MAXIMUM IN INCHES |
|---|---|
| Dot base diameter | 0.059 (1.5 mm) to 0.063 (1.6mm) |
| Distance between two dots in the same cell[1] (#footnote-1) | *0.100 (2.5 mm)* |
| Distance between corresponding dots in adjacent cells[1] (#footnote-1) | *0.300 (7.6 mm)* |
| Dot height | 0.025 (0.6 mm) to 0.037 (0.9 mm) |
| Distance between corresponding dots from one cell directly below[1] (#footnote-1) | 0.395 (10 mm) to 0.400 (10.2 mm) |

1. Measured center to center.




NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC W/1/32" RAISED GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703. WHERE RAISED BOARDERS OCCUR, PROVIDE 1/2" MIN. CLEARANCE BETWEEN TOP OF BOARDER AND LOWEST LEVEL OF BRAILLE TEXT.

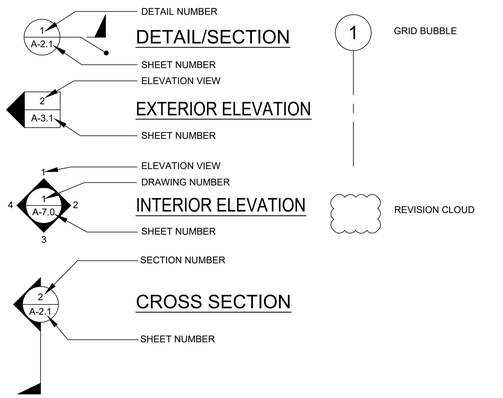
## (A) ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH SIGNAGE NOTES 1 THROUGH 7 ON THIS SHEET.

**THIS DETAIL FOR REFERENCE ONLY**

## SYMBOLS LEGEND




## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| AB | ANCHOR BOLT | FIN | FINISH | ℄ OR PL | PLATE |
| ABS | ABSOLUTE | FLR | FLOOR | PC | PRE-CHECKED |
| ABV | ABOVE | FN | FIELD NAILING | PLAS | PLASTER |
| ACC | ACCESS | FND | FOUNDATION | PLYWD | PLYWOOD |
| ADDL | ADDITIONAL | FOC | FACE OF CONCRETE | PNL | PANEL |
| ADJ | ADJACENT | FOS | FACE OF STUD | POC | POINT OF CONNECTION |
| AFF | ABOVE FINISH FLOOR | FTG | FOOTING | POT | PATH OF TRAVEL |
| AFG | ABOVE FINISH GRADE | FOF | FACE OF FINISH | PSF | POUNDS PER SQUARE FOOT |
| AGC | ABOVE GRADE CONCRETE | | | PSI | POUNDS PER SQUARE INCH |
| ALT | ALTERNATE | GA | GAUGE | PT | PRESSURE TREATED |
| AOR | ARCHITECT OF RECORD | GALV | GALVANIZE | | |
| APPROX | APPROXIMATE | GC | GENERAL CONTRACTOR | RAG | RETURN AIR GRILLE |
| ARCH | ARCHITECTURAL / ARCHITECT | GR | GRADE | RD | ROOF DRAIN |
| | | GYP | GYPSUM | REF | REFERENCE |
| BD | BOARD | GYP BD | GYPSUM BOARD | REINF | REINFORCE |
| BGC | BELOW GRADE CONCRETE | | | REQ'D | REQUIRED |
| BLDG | BUILDING | HB | HOSE BIBB | REV | REVISION |
| BLK | BLOCK | HD | HEAVY DUTY | RF | ROOF |
| BLKG | BLOCKING | HDR | HEADER | RM | ROOM |
| BM | BEAM | HDW | HARDWARE | RO | ROUGH OPENING |
| BOT | BOTTOM (OR BTM) | HF | HEM FIR | ROH | ROOF OVERHANG |
| BTWN | BETWEEN | HORIZ | HORIZONTAL | | |
| BU | BUILT UP | HT | HEIGHT | SCHED | SCHEDULE |
| | | HVAC | HEATING, VENTILATING, AND AIR CONDITIONING | SEC | SECTION |
| CAB | CABINET | | | SHT | SHEET |
| CBC | CALIFORNIA BUILDING CODE | | | SHTG | SHEATHING |
| CI | CAST IRON | | | SIM | SIMILAR |
| CJ | CONTROL JOINT | INCL | INCLUDED | SPEC | SPECIFICATION |
| CJP | COMPLETE JOINT PENETRATION | INFO | INFORMATION | SQ | SQUARE |
| | | INT | INTERIOR | SST | STAINLESS STEEL |
| ℄ | CENTER LINE | | | STD | STANDARD |
| CLG | CEILING | J-BOX | JUNCTION BOX | STIFF | STIFFENER |
| CO | CLEAN OUT | JST | JOIST | STL | STEEL |
| COL | COLUMN | JT | JOINT | STS | SELF-TAPPING SCREW |
| CONC | CONCRETE | | | STSMS | SELF-TAPPING SHEET METAL SCREW |
| CONN | CONNECTION | KO | KNOCK OUT | | |
| CONST | CONSTRUCTION | | | | |
| CONT | CONTINUOUS | LAB | LABORATORY | | |
| CPT | CARPET | LAM | LAMINATED | T&B | TOP AND BOTTOM |
| CSK | COUNTERSINK | LAV | LAVATORY | T&G | TONGUE AND GROOVE |
| CTR | CENTER | LB | POUNDS | TEL | TELEPHONE |
| | | LT | LIGHT | THK | THICK |
| DBL | DOUBLE | LT WT | LIGHT WEIGHT | TOC | TOP OF COLUMN |
| DET | DETAIL | LVR | LOUVER | TOS | TOP OF STEEL |
| DF | DOUGLAS FIR | | | TS | TUBE STEEL |
| DIA OR Ø | DIAMETER | MAX | MAXIMUM | TV | TELEVISION |
| DIAG | DIAGONAL | MB | MACHINE BOLT | TYP | TYPICAL |
| DIM | DIMENSION | MED | MEDIUM | | |
| DSA | DIVISION OF THE STATE ARCHITECT | MFR | MANUFACTURER | UBC | UNIFORM BUILDING CODE |
| | | MIN | MINIMUM | UON | UNLESS OTHERWISE NOTED |
| DWG | DRAWING | MISC | MISCELLANEOUS | | |
| | | MOD | MODULE | UR | URINAL |
| (E) | EXISTING | MTL | METAL | | |
| EA | EACH | | | VERT | VERTICAL |
| EJ | EXPANSION JOINT | (N) | NEW | VCT | VINYL COMPOSITION TILE |
| ELEV | ELEVATION | N | NORTH | | |
| EN | END NAIL | NIC | NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK | W/ | WITH |
| EQ | EQUAL | | | WC | WATER CLOSET |
| EQUIP | EQUIPMENT | NO | NUMBER | WCO | WALL CLEAN OUT |
| EW | EACH WAY | NTS | NOT TO SCALE | WD | WOOD |
| EXT | EXTERIOR | | | WH | WATER HEATER |
| | | OC | ON CENTER | WIC | WOODWORK INSTITUTE OF CALIFORNIA |
| FA | FIRE ALARM | OD | OUTSIDE DIAMETER | | |
| FCO | FLOOR CLEAN OUT | OH | OPPOSITE HAND | WND | WINDOW (OR WDW) |
| FF | FINISH FLOOR | OPNG | OPENING | W/O | WITHOUT |
| FG | FINISH GRADE | OPP | OPPOSITE | WP | WATER PROOF |

## SPECIFICATIONS

DIVISION 5 - METALS
- ALL WELDED JOINTS AND SURFACES SHALL BE GROUNDED SMOOTH, NO SHARP OR ABRASIVES CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAILS SHALL BE SMOOTH,
- ALL HANDRAILS SHALL BE ROUND OR SHALL HAVE RADIUSED EDGES (r = 1/8" MIN)

DIVISION 6 - WOOD AND PLASTICS
- ALL CABINET AND DRAWERS WILL HAVE U-SHAPED WIRE PULLS

DIVISION 9 - FINISHES
- CEILING INSTALLATION SHALL BE PER THE NOTES PROVIDED ON THIS SHEET.

DIVISION 10 - SPECIALITIES
- ALL TOILET ACCESSORIES SHALL BE INSTALLED AT THE HEIGHT AND CLEARANCES SHOWN ON SHEET P-1.01

DIVISION 22 - PLUMBING
- FAUCETS SHALL BE LEVER OPERATED (4" MIN BLADE) OR SHALL BE PUSH TYPE OR AUTOMATIC ELECTRONICALLY CONTROLLED. CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- FORCE TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LBS
- FORCE TO REMAIN OPEN FOR A MINIMUM OF 10 SECONDS WHEN SELF CLOSING VALVES ARE USED
- PIPE COVERS SHALL BE PROVIDED FOR WATER LINES AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVATORIES
- ACCESSIBLE SINKS SHALL NOT BE DEEPER THAN 6 1/2"

## ASSISTIVE LISTENING SYSTEM




ASSISTIVE LISTENING SYSTEM SIGN
(SYMBOL PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.4)

NOTES:
1. ASSISTIVE-LISTENING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTIONS 11B-216.10 AND 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.
2. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. 25% (MIN) OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3
3. SIGNAGE SHALL BE POSTED IN A PROMINENT PLACE INDICATING THE AVAILABILITY OF ASSISTIVE LISTENING DEVICES.
4. OWNER/SCHOOL DISTRICT SHALL PROVIDE A PERMANENT OR PORTABLE ASSISTIVE LISTENING SYSTEM.

IDENTIFICATION STAMP
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APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

| | |
|---|---|
| SILVER CREEK INDUSTRIES | 24' x 40' PC |
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-0.1 |

# WILDLAND URBAN INTERFACE REQUIREMENTS ☐

WHEN THIS BUILDING IS TO BE INSTALLED WHERE THE REQUIREMENTS OF CHAPTER 7A OF THE 2022 CBC ARE APPLICABLE COMPLIANCE WITH THE APPLICABLE REQUIREMENTS SHALL BE AS OUTLINED BELOW:

CHAPTER 7A REQUIREMENTS:

705A ROOFING

705A.1 - ROOF SHALL BE CLASS 'A'.
705A.2 - NOT APPLICABLE. NO VOIDS OCCUR, ROOF IS APPLIED DIRECTLY.
705A.3 - NOT APPLICABLE. NO VALLEYS OCCUR.
705A.4 - LEAF GUARDS/COVERS SHALL BE PROVIDED AT ALL GUTTERS.

706A VENTS

706A.2 - THE UNDER-FLOOR ACCESS AND VENT OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH A CLEAR OPENING NOT EXCEEDING 1/8".
706A.3 - THE SOFFIT VENTS SHALL BE VULCAN TECHNOLOGIES MODEL #VE OR VSC SOFFIT VENT COVERS (PER CASFM LISTING 8165-2192:0100).

707A EXTERIOR COVERINGS

707A.3 - EXTERIOR WALL FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER 1/2" OSB OVER STUDS OR 19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING# 8140-2031:0004).
707A.4 - NOT APPLICABLE. NO OPEN ROOF EAVES OCCUR.
707A.5 - SOFFIT FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER FRAMING OR ALLURA FIBER-CEMENT PANELS (NON-COMBUSTIBLE) (PER ESR-1668).
707A.6 - NOT APPLICABLE. DOES NOT OCCUR
707A.7 - NOT APPLICABLE. DOES NOT OCCUR
707A.8 - NOT APPLICABLE. DOES NOT OCCUR
707A.9 - NOT APPLICABLE. DOES NOT OCCUR

708A EXTERIOR DOORS AND WINDOWS

708A.2 - NOT APPLICABLE. DOES NOT OCCUR
708A.3 - EXTERIOR DOORS AND FRAMES ARE NON-COMBUSTIBLE (HOLLOW METAL).
708A.4 - NOT APPLICABLE.

709A - DECKING - THE EXTERIOR DECKING (WHERE APPLICABLE) IS A NON-COMBUSTIBLE STEEL FRAME AND DECK. SKIRTING MATERIAL (WHERE APPLICABLE) SHALL BE 19/32" DURATEMP SIDING (PER SFM LISTING# 8140-2031:0004).

710A - NOT APPLICABLE.

# WINDOW SCHEDULE

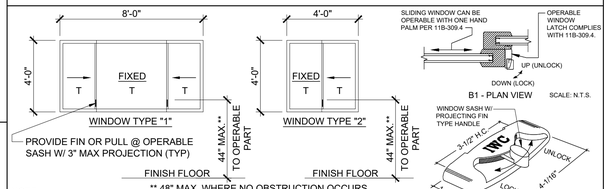
| WINDOW NO. | TYPE | SIZE WIDTH | SIZE HEIGHT | FRAME MAT. | OPERABLE | MAX U-FACTOR | REQUIRED SHGC | MIN VT | NFRC RATED | GLASS SPECS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | 8'-0" | 4'-0" | ANOD | YES | 0.520 | 0.350 | 0.610 | YES | DP | |
| B | 2 | 4'-0" | 4'-0" | ANOD | YES | 0.520 | 0.350 | 0.610 | YES | DP | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

# WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM FRAME
DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR GRAY - 3/16" ENERGYSHIELD
T: TEMPERED GLASS

NOTES:
1. ALL OPERABLE SASH SHALL HAVE SCREENS.
2. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON PLAN.

# WINDOW TYPE




NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST.
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS
4. ALL SAFETY GLAZING SHALL BE IDENTIFIED PER CBC CHAPTER 24.

** 48" MAX. WHERE NO OBSTRUCTION OCCURS




# DOOR SCHEDULE

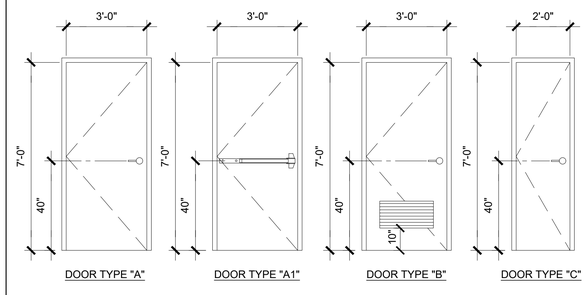
| DOOR NO | WIDTH | HEIGHT | DOOR TYPE | QTY | DOOR MAT/FIN | FRAME MAT/FIN | HARDWARE SET | LOCKABLE FROM INT. | NOTES* |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3'-0" | 7'-0" | A | | HM | KD | HW - 1 | YES | |
| 1P | 3'-0" | 7'-0" | A1 | | HM | KD | HW - 2 | YES | |
| 2 | 3'-0" | 7'-0" | A | | SCL | KD | HW - 3 | NO | |
| 3 | 3'-0" | 7'-0" | B | | HM | KD | HW - 4 | NO | |
| 4 | 3'-0" | 7'-0" | B | | HM | KD | HW - 5 | NO | NO CLOSER REQ'D. |
| 5 | 2'-0" | 7'-0" | C | | HM | KD | HW - 6 | NO | |

# DOOR MATERIAL AND FINISH ABBREVIATIONS

HM: 18GA HOLLOW METAL
WF: 16GA WELDED FRAME
AL: ALUMINUM
SST: STAINLESS STEEL
KD: KNOCK DOWN FRAME
SCL: SOLID CORE WOOD LEGACY
HC: HOLLOW CORE WOOD
PT: PAINTED

* EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 1.450 MAX

# DOOR TYPES & NOTES




1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTED AT 40" AFF HARDWARE TO BE OPENED FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
2. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
3. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
4. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
5. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.5,11B-404.1 & 1010.
6. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12° FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR.
7. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING;
   - THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   - THE MAXIMUM FORCE TO ACTIVATE ANY OPERABLE PART SHALL NOT EXCEED 5 LBS PER THE 2022 CBC, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
8. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES.
9. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE.
10. FLOOR STOP SHALL BE LOCATED 4" MAX FROM FACE OF WALL.

# FINISH SCHEDULE

| ROOM NAME | FLOORING FLOOR | FLOORING BASE | WALL FINISH FRONT | WALL FINISH LEFT | WALL FINISH REAR | WALL FINISH RIGHT | CEILING | CEILING HT | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| CLASSROOM 101 | CARP | 4" TS | TACK | TACK | TACK | TACK | CP | 8'-6" | |
| CLASSROOM 102 | CARP | 4" TS | TACK | TACK | TACK | TACK | CP | 8'-6" | |
| TOILET 103 | SV | 6" TS | FRP | FRP | FRP | FRP | CP | 8'-0" | SEE 10/A-5.70 |
| GIRLS 104 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | SEE 10/A-5.70 |
| BOYS 105 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | SEE 10/A-5.70 |
| STAFF 106 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | SEE 10/A-5.70 |
| STAFF 107 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | SEE 10/A-5.70 |
| PLUMBING CHASE | --- | --- | --- | --- | --- | --- | --- | --- | |

# FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING W/ FULLY SEALED JOINTS
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
SC: 6" SELF-COVE BASE, CONTINUE FLOOR MATERIAL UP THE WALL PER 10/A-5.70

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER ½" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

# FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2022 CBC. CARPET EDGED SHALL COMPLY WITH THE 2022 CBC

# DOOR HARDWARE

**CLASSROOM - EXTERIOR DOOR HW-1**

| | | | |
|---|---|---|---|
| LOCKSET | TAH LHV75-LFIC SAT | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| CLOSER | TAH DC851 DA | Finish 689 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |

**DOOR W/ PANIC HARDWARE - EXTERIOR DOOR HW-2**

| | | | |
|---|---|---|---|
| EXIT DEVICE | VON DUPRIN AX-99L-PA-2 | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 W/ 20-079 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| CLOSER | TAH DC851 DA | Finish 689 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

**STAFF RESTROOM / SINGLE-OCCUPANCY - INTERIOR DOOR HW-3**

| | | | |
|---|---|---|---|
| LOCKSET | TAL LVH40 SAT | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |

**BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-4**

| | | | |
|---|---|---|---|
| LOCKSET | TAH LHV70-LFIC SAT | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| CLOSER | TAH DC851 DA | Finish 689 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |
| LOUVER | ANEMO 24 x 12 | Finish Bronze | or equal |

**STAFF RESTROOM - EXTERIOR DOOR HW-5**

| | | | |
|---|---|---|---|
| LOCKSET | SCHLAGE L9496J-06A X 09-509 X L583-363 | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |
| LOUVER | ANEMO 24 x 12 | Finish Bronze | or equal |

**CHASE EXTERIOR DOOR - INTERIOR DOOR HW-6**

| | | | |
|---|---|---|---|
| LOCKSET | TAH LVH70 LFIC SAT | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |

# INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL:
INSULATING MATERIAL FOR WALLS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING, JOHNS-MANVILLE, OR EQUAL.

INSULATING MATERIAL FOR ROOFS SHALL BE CLOSED CELL SPRAY FOAM AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-6 PER EACH INCH OF THICKNESS, AN AIR PERMEANCE RATE OF NOT MORE THAN 0.02 L/s AT 75 Pa, AND A WATER VAPOR TRANSMISSION RATE OF NOT MORE THAN 0.9 PERMS. THE FOAM SHALL BE APPLIED TO FILL ALL VOIDS IN THE ROOF FRAMING MEMBERS.

MIN INSULATION VALUES:

WOOD STUD EXTERIOR WALL INSULATION (MIN.)
☐ R-13 (4" WALL @ UNCONDITIONED RESTROOM MODULE ONLY)
☐ R-19 (6" WALL)
☐ R-30 (8" WALL)

STEEL STUD EXTERIOR WALL INSULATION (MIN.)
☐ R-13 (4" WALL @ UNCONDITIONED RESTROOM MODULE ONLY)
☐ R-19 BATT + R-8.8 (MIN) CONTINUOUS RIGID FOAM INSULATION ON THE INTERIOR SIDE OF THE WALL ((6" WALL)
☐ R-30 BATT + R-8.8 (MIN) CONTINUOUS RIGID FOAM INSULATION ON THE INTERIOR SIDE OF THE WALL (8" WALL)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION
☐ NONE (CONCRETE MASS)
☐ R-11 (MIN) + CONCRETE MASS
☐ R-19 (MIN)

ROOF INSULATION (MIN.)
R-30 (5" MIN. DEPTH) CLOSED CELL SPRAY FOAM

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PROJECT NAME:

SHEET TITLE:

# SCHEDULES

REVISIONS
02/27/2026 BID SET
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2
3
4
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PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

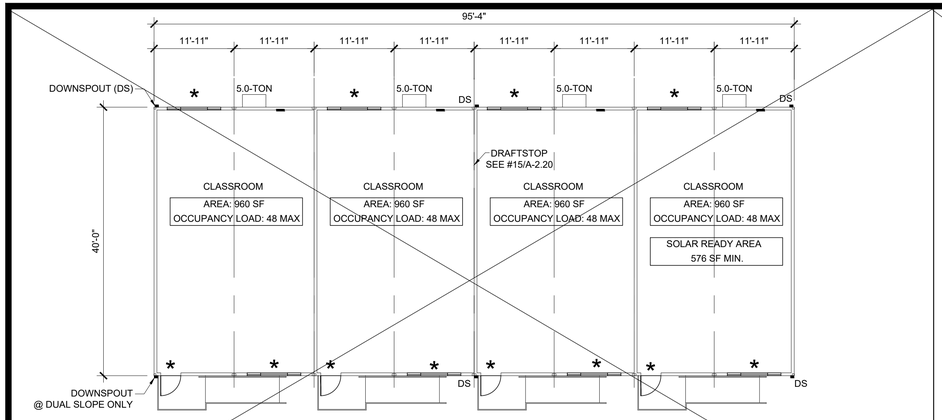
MODULAR BUILDING DESIGN PROFESSIONAL




SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.2



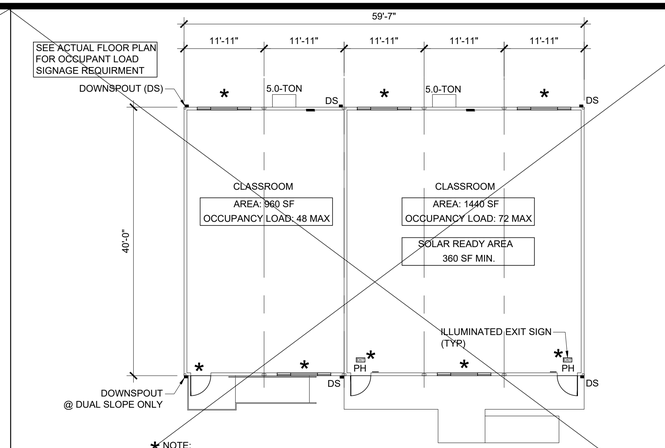

SEE ACTUAL FLOOR PLAN FOR OCCUPANT LOAD SIGNAGE REQUIRMENT

DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

* NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

## 96' x 40' KEY PLAN (TOTAL AREA - 3840 SF)

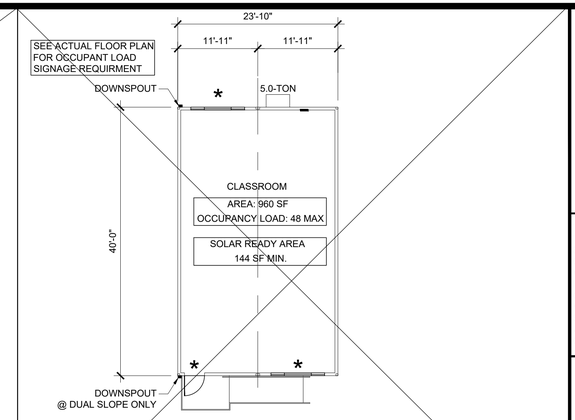
SCALE: 3/32" = 1' - 0" | 7




* NOTE:
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2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.
3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

## 60' x 40' KEY PLAN (TOTAL AREA - 2400 SF)

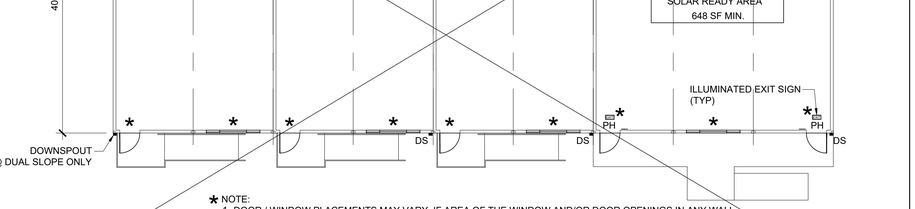
SCALE: 3/32" = 1' - 0" | 4




*NOTE:
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2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

## 24' x 40' KEY PLAN (TOTAL AREA - 960 SF)

SCALE: 3/32" = 1' - 0" | 1



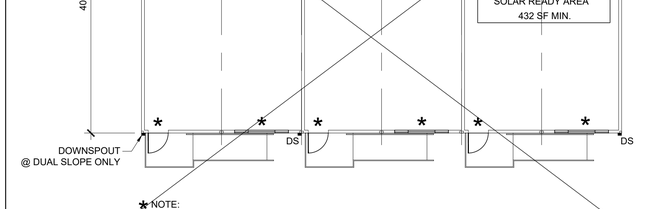

SEE ACTUAL FLOOR PLAN FOR OCCUPANT LOAD SIGNAGE REQUIRMENT

DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

* NOTE:
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3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

## 108' x 40' KEY PLAN (TOTAL AREA - 4320 SF)

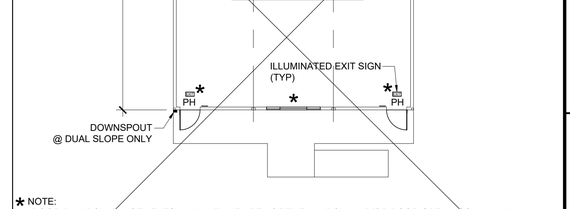
SCALE: 3/32" = 1' - 0" | 8




* NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

## 72' x 40' KEY PLAN (TOTAL AREA - 2880 SF)

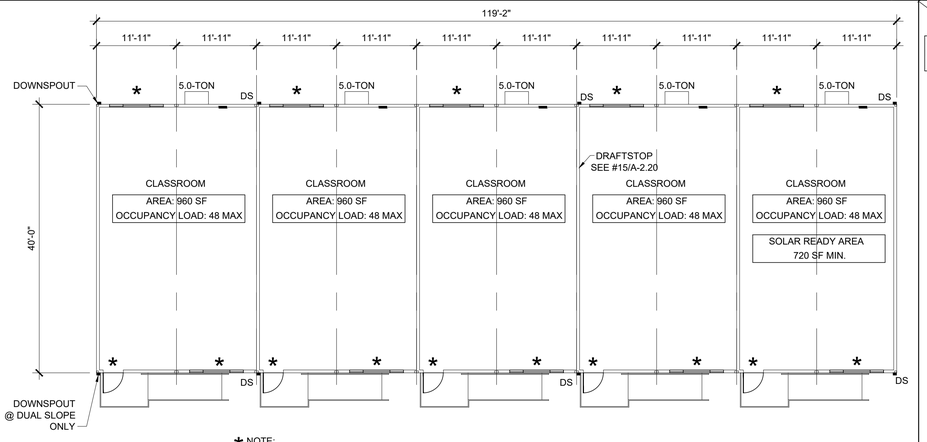
SCALE: 3/32" = 1' - 0" | 5




* NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.
3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

## 36' x 40' KEY PLAN (TOTAL AREA - 1440 SF)

SCALE: 3/32" = 1' - 0" | 2



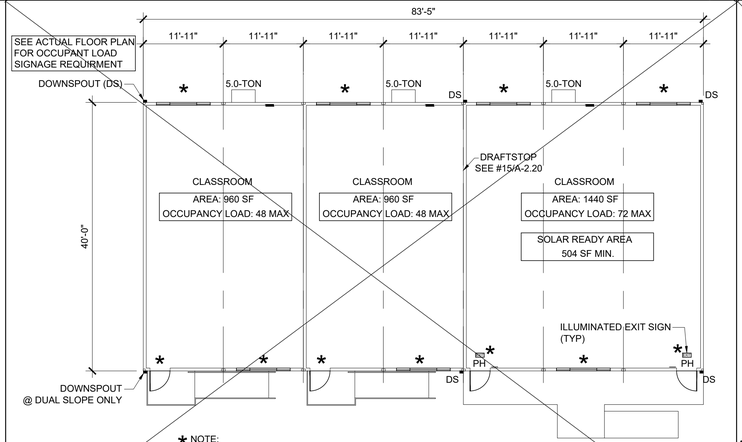

* NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

SEE ACTUAL FLOOR PLAN FOR OCCUPANT LOAD SIGNAGE REQUIRMENT

DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

## 120' x 40' KEY PLAN (TOTAL AREA - 4800 SF)

SCALE: 3/32" = 1' - 0" | 9

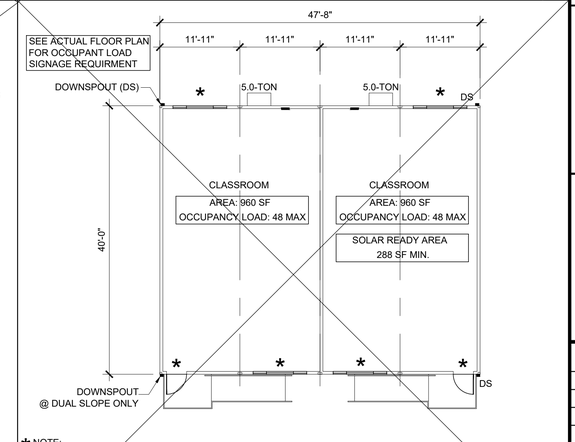



DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

* NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.
3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

## 84' x 40' KEY PLAN (TOTAL AREA - 3360 SF)

SCALE: 3/32" = 1' - 0" | 6




* NOTE:
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2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

## 48' x 40' KEY PLAN (TOTAL AREA - 1920 SF)

SCALE: 3/32" = 1' - 0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# TYPICAL KEY PLANS
## 24' - 120' x 40'

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.3

| Zone<br>Zip Code<br>(Weather Station) | Rotation | ☐ 24x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| Zone 14<br>92301<br>(PALMDALE) | 30 | 66.91 | 15.9% | 66.91 | 15.9% | 6.71 | 18.5% | PASS |
| | 75 | 69.23 | 16.2% | 69.23 | 16.2% | 6.92 | 18.9% | PASS |
| | 120 | 69.11 | 16.2% | 69.11 | 16.2% | 6.89 | 18.8% | PASS |
| | 165 | 59.59 | 14.5% | 59.59 | 14.5% | 6.06 | 17.0% | PASS |
| | 210 | 62.55 | 15.0% | 62.55 | 15.0% | 6.30 | 17.5% | PASS |
| | 255 | 64.42 | 15.3% | 64.42 | 15.3% | 6.47 | 17.9% | PASS |
| | 300 | 65.57 | 15.6% | 65.57 | 15.6% | 6.55 | 18.1% | PASS |
| | 345 | 59.02 | 14.4% | 59.02 | 14.4% | 6.03 | 17.0% | PASS |
| Zone 15<br>92225<br>(PALM SPRINGS) | 30 | 53.29 | 12.4% | 53.29 | 12.4% | 4.86 | 15.0% | PASS |
| | 75 | 57.27 | 13.1% | 57.27 | 13.1% | 5.22 | 15.8% | PASS |
| | 120 | 58.33 | 13.3% | 58.33 | 13.3% | 5.30 | 16.0% | PASS |
| | 165 | 48.62 | 11.5% | 48.62 | 11.5% | 4.44 | 13.9% | PASS |
| | 210 | 48.37 | 11.4% | 48.37 | 11.4% | 4.56 | 14.2% | PASS |
| | 255 | 51.01 | 11.9% | 51.01 | 11.9% | 4.76 | 14.6% | PASS |
| | 300 | 48.43 | 11.4% | 48.43 | 11.4% | 4.54 | 14.1% | PASS |
| | 345 | 46.89 | 11.1% | 46.89 | 11.1% | 4.32 | 13.6% | PASS |
| Zone 16<br>96006<br>(BLUE CANYON) | 30 | 37.03 | 10.4% | 37.03 | 10.4% | 18.90 | 31.4% | PASS |
| | 75 | 39.67 | 11.0% | 39.67 | 11.0% | 18.95 | 31.3% | PASS |
| | 120 | 38.43 | 10.7% | 38.43 | 10.7% | 18.88 | 31.2% | PASS |
| | 165 | 27.64 | 8.0% | 27.64 | 8.0% | 18.53 | 30.9% | PASS |
| | 210 | 40.17 | 11.1% | 40.17 | 11.1% | 19.06 | 31.5% | PASS |
| | 255 | 43.43 | 11.9% | 43.43 | 11.9% | 19.04 | 31.5% | PASS |
| | 300 | 40.04 | 11.1% | 40.04 | 11.1% | 18.80 | 31.2% | PASS |
| | 345 | 30.40 | 8.7% | 30.40 | 8.7% | 18.49 | 31.0% | PASS |

| ☐ 36x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|
| TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| 104.26 | 28.6% | 104.26 | 28.6% | 9.93 | 32.0% | PASS |
| 106.81 | 28.8% | 106.81 | 28.8% | 10.16 | 32.3% | PASS |
| 106.32 | 28.8% | 106.32 | 28.8% | 10.11 | 32.2% | PASS |
| 97.89 | 27.6% | 97.89 | 27.6% | 9.37 | 31.0% | PASS |
| 104.72 | 28.8% | 104.72 | 28.8% | 9.95 | 32.1% | PASS |
| 107.43 | 29.0% | 107.43 | 29.0% | 10.18 | 32.4% | PASS |
| 106.32 | 28.8% | 106.32 | 28.8% | 10.06 | 32.2% | PASS |
| 96.56 | 27.3% | 96.56 | 27.3% | 9.24 | 30.7% | PASS |
| 11.89 | 4.1% | 11.89 | 4.1% | 0.54 | 2.7% | PASS |
| 10.69 | 3.6% | 10.69 | 3.6% | 0.46 | 2.3% | PASS |
| 11.90 | 4.1% | 11.90 | 4.1% | 0.46 | 2.3% | PASS |
| 21.22 | 7.1% | 21.22 | 7.1% | 0.59 | 3.0% | PASS |
| 19.59 | 6.6% | 19.59 | 6.6% | 0.48 | 2.4% | PASS |
| 12.82 | 4.4% | 12.82 | 4.4% | 0.62 | 3.1% | PASS |
| 12.05 | 4.1% | 12.05 | 4.1% | 0.48 | 2.4% | PASS |
| 12.65 | 4.4% | 12.65 | 4.4% | 0.46 | 2.3% | PASS |
| 73.71 | 23.7% | 73.71 | 23.7% | 20.31 | 40.2% | PASS |
| 77.03 | 24.4% | 77.03 | 24.4% | 20.30 | 40.1% | PASS |
| 73.54 | 23.6% | 73.54 | 23.6% | 20.11 | 39.8% | PASS |
| 66.95 | 22.1% | 66.95 | 22.1% | 19.93 | 39.8% | PASS |
| 74.59 | 24.0% | 74.59 | 24.0% | 20.33 | 40.3% | PASS |
| 77.01 | 24.4% | 77.01 | 24.4% | 20.29 | 40.1% | PASS |
| 73.00 | 23.4% | 73.00 | 23.4% | 20.11 | 39.8% | PASS |
| 66.95 | 22.1% | 66.95 | 22.1% | 19.95 | 39.8% | PASS |

☐ **48x40**
(2) 5-ton units

(2) 24x40 CLASSROOMS

☐ **60x40**
(2) 5-ton units

(1) 24x40 CLASSROOM +
(1) 36x40 CLASSROOM

☐ **72x40**
(3) 5-ton units

(3) 24x40 CLASSROOMS

☐ **84x40**
(3) 5-ton units

(2) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **96x40**
(4) 5-ton units

(4) 24x40 CLASSROOMS

☐ **108x40**
(4) 5-ton units

(3) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **120x40**
(5) 5-ton units

(5) 24x40 CLASSROOMS

| Envelope Min Design - Zone: 1-16 | | |
|---|---|---|
| Building: 24x40 | | |
| Assembly | U-Value | Insulation R-Value |
| Walls: | 0.062 | R-19 batt |
| Floor: | 0.115 | None |
| Roof: | 0.055 | R-30 Foam |

| Envelope Min Design - Zone: 1-16 | | |
|---|---|---|
| Building: 36x40 | | |
| Assembly | U-Value | Insulation R-Value |
| Walls: | 0.062 | R-19 batt |
| Floor: | 0.066 | R-11 batt |
| Roof: | 0.055 | R-30 Foam |

| HVAC Min Design - Zone: 1-16 | | |
|---|---|---|
| Buildings: All | | |
| Tonnage | 5 | |
| Min. EER / HSPF | 12.0/8.5 | |
| Outside Air | See Ventilation Calcs on Mechanical Plans | |
| Occupancy Sensor | Yes | |
| DCV/ Economizer | Yes | |
| Cooling Stages (Min.) | 1 | |
| Allowable Mechanical Unit (See Equipment Schedule) | HP 1 STANDARD | HP 2 OPTIONAL |

LEGEND
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTES:
- Interior lights shall be dimmable LED fixtures, 51 Watts Max per fixtures, 4 fixtures per module per floor
- Windows shall be NFRC #INT-A-73-00213-00011 or equal, U-Factor = 0.520 (Max), SHGC = 0.350 (Max), Visual Transmittance = 0.610 (Min)
- Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
- Refer to sheet A-0.2 For windows specifications
- Refer to sheet A-0.2 For insulation specifications
- Refer to sheets A-0.3 for mechanical layout per classroom
- Refer to Mechanical plans for more info
- Where Steel stud walls are used the exterior wall assembly shall be as follows:
  U-Value 0.062 (max) - provide 6" (Nominal) studs @ 24" oc with R-19 batt cavity insulation and continious 1.5" rigid foam insulation (R=8.8 min) on the interior side of the wall.

DESIGN ENERGY VALUES BY BUILDING SIZE - CONC FLOOR - ROOF HVAC

ENERGY SPECS

IDENTIFICATION STAMP
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APP: 03-123590 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

DESIGN ENERGY VALUES
CONC FLOOR - ROOF HVAC

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.50

| Zone<br>Zip Code<br>(Weather Station) | Rotation | ☐ 24x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| Zone 14<br>92301<br>(PALMDALE) | 30 | 82.80 | 19.7% | 82.80 | 19.7% | 7.99 | 22.1% | 0.0% |
| | 75 | 85.05 | 19.9% | 85.05 | 19.9% | 8.19 | 22.4% | 0.0% |
| | 120 | 85.02 | 19.9% | 85.02 | 19.9% | 8.17 | 22.3% | 0.0% |
| | 165 | 75.40 | 18.3% | 75.40 | 18.3% | 7.33 | 20.6% | 0.0% |
| | 210 | 78.40 | 18.8% | 78.40 | 18.8% | 7.57 | 21.1% | 0.0% |
| | 255 | 80.35 | 19.1% | 80.35 | 19.1% | 7.74 | 21.4% | 0.0% |
| | 300 | 81.33 | 19.3% | 81.33 | 19.3% | 7.82 | 21.6% | 0.0% |
| | 345 | 74.96 | 18.3% | 74.96 | 18.3% | 7.31 | 20.7% | 0.0% |
| Zone 15<br>92225<br>(PALM SPRINGS) | 30 | 66.40 | 15.4% | 66.40 | 15.4% | 6.35 | 19.6% | 0.0% |
| | 75 | 70.63 | 16.1% | 70.63 | 16.1% | 6.72 | 20.3% | 0.0% |
| | 120 | 71.45 | 16.3% | 71.45 | 16.3% | 6.80 | 20.6% | 0.0% |
| | 165 | 61.72 | 14.6% | 61.72 | 14.6% | 5.93 | 18.6% | 0.0% |
| | 210 | 61.83 | 14.6% | 61.83 | 14.6% | 6.06 | 18.8% | 0.0% |
| | 255 | 64.40 | 15.0% | 64.40 | 15.0% | 6.26 | 19.3% | 0.0% |
| | 300 | 61.53 | 14.4% | 61.53 | 14.4% | 6.05 | 18.7% | 0.0% |
| | 345 | 59.93 | 14.2% | 59.93 | 14.2% | 5.80 | 18.3% | 0.0% |
| Zone 16<br>96006<br>(BLUE CANYON) | 30 | 48.32 | 13.5% | 48.32 | 13.5% | 19.97 | 33.1% | 0.0% |
| | 75 | 51.04 | 14.1% | 51.04 | 14.1% | 20.02 | 33.1% | 0.0% |
| | 120 | 49.49 | 13.7% | 49.49 | 13.7% | 19.94 | 33.0% | 0.0% |
| | 165 | 38.74 | 11.2% | 38.74 | 11.2% | 19.58 | 32.7% | 0.0% |
| | 210 | 51.37 | 14.2% | 51.37 | 14.2% | 20.12 | 33.3% | 0.0% |
| | 255 | 54.75 | 15.0% | 54.75 | 15.0% | 20.11 | 33.2% | 0.0% |
| | 300 | 51.32 | 14.2% | 51.32 | 14.2% | 19.87 | 33.0% | 0.0% |
| | 345 | 41.72 | 12.0% | 41.72 | 12.0% | 19.55 | 32.7% | 0.0% |

| ☐ 36x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|
| TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| 104.54 | 28.7% | 104.54 | 28.7% | 9.92 | 32.0% | PASS |
| 107.04 | 28.9% | 107.04 | 28.9% | 10.14 | 32.3% | PASS |
| 106.57 | 28.9% | 106.57 | 28.9% | 10.09 | 32.2% | PASS |
| 98.30 | 27.7% | 98.30 | 27.7% | 9.37 | 31.0% | PASS |
| 105.02 | 28.9% | 105.02 | 28.9% | 9.94 | 32.1% | PASS |
| 107.69 | 29.1% | 107.69 | 29.1% | 10.17 | 32.4% | PASS |
| 106.61 | 28.9% | 106.61 | 28.9% | 10.06 | 32.1% | PASS |
| 96.98 | 27.4% | 96.98 | 27.4% | 9.25 | 30.7% | PASS |
| 7.57 | 2.6% | 7.57 | 2.6% | 0.46 | 2.3% | PASS |
| 6.18 | 2.1% | 6.18 | 2.1% | 0.37 | 1.9% | PASS |
| 7.43 | 2.5% | 7.43 | 2.5% | 0.37 | 1.8% | PASS |
| 17.00 | 5.7% | 17.00 | 5.7% | 0.52 | 2.6% | PASS |
| 15.34 | 5.2% | 15.34 | 5.2% | 0.41 | 2.0% | PASS |
| 8.33 | 2.8% | 8.33 | 2.8% | 0.52 | 2.6% | PASS |
| 7.51 | 2.6% | 7.51 | 2.6% | 0.40 | 2.0% | PASS |
| 8.38 | 2.9% | 8.38 | 2.9% | 0.38 | 1.9% | PASS |
| 72.69 | 23.4% | 72.69 | 23.4% | 20.21 | 40.0% | PASS |
| 76.04 | 24.1% | 76.04 | 24.1% | 20.22 | 39.9% | PASS |
| 72.61 | 23.3% | 72.61 | 23.3% | 20.03 | 39.7% | PASS |
| 66.12 | 21.8% | 66.12 | 21.8% | 19.85 | 39.6% | PASS |
| 73.71 | 23.7% | 73.71 | 23.7% | 20.25 | 40.1% | PASS |
| 76.14 | 24.2% | 76.14 | 24.2% | 20.20 | 39.9% | PASS |
| 72.08 | 23.1% | 72.08 | 23.1% | 20.02 | 39.7% | PASS |
| 66.10 | 21.8% | 66.10 | 21.8% | 19.86 | 39.6% | PASS |

☐ **48x40**
(2) 5-ton units

(2) 24x40 CLASSROOMS

☐ **60x40**
(2) 5-ton units

(1) 24x40 CLASSROOM +
(1) 36x40 CLASSROOM

☐ **72x40**
(3) 5-ton units

(3) 24x40 CLASSROOMS

☐ **84x40**
(3) 5-ton units

(2) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **96x40**
(4) 5-ton units

(4) 24x40 CLASSROOMS

☐ **108x40**
(4) 5-ton units

(3) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **120x40**
(5) 5-ton units

(5) 24x40 CLASSROOMS

☐

| Envelope Min Design - Zone: 1-16 | | |
|---|---|---|
| Building: 24x40 | | |
| Assembly | U-Value | Insulation R-Value |
| Walls: | 0.062 | R-19 batt |
| Floor: | 0.115 | None |
| Roof: | 0.055 | R-30 Foam |

☐

| Envelope Min Design - Zone: 1-16 | | |
|---|---|---|
| Building: 36x40 | | |
| Assembly | U-Value | Insulation R-Value |
| Walls: | 0.062 | R-19 batt |
| Floor: | 0.066 | R-11 batt |
| Roof: | 0.055 | R-30 Foam |

| HVAC Min Design - Zone: 1-16 | | |
|---|---|---|
| Buildings: All | | |
| Tonnage | 5 | |
| Min. EER / COP | 11.0/3.3 | |
| Outside Air | See Ventilation Calcs on Mechanical Plans | |
| Occupancy Sensor | Yes | |
| DCV/ Economizer | Yes | |
| Cooling Stages (Min.) | 1 | |
| Allowable Mechanical Unit (See Equipment Schedule) | SPVU 1 | SPVU 2 |
| | STANDARD | OPTIONAL |

LEGEND
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTES:
- Interior lights shall be dimmable LED fixtures, 51 Watts Max per fixtures, 4 fixtures per module per floor
- Windows shall be NFRC #INT-A-73-00213-00011 or equal, U-Factor = 0.520 (Max), SHGC = 0.350 (Max), Visual Transmittance = 0.610 (Min)
- Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
- Refer to sheet A-0.2 For windows specifications
- Refer to sheet A-0.2 For insulation specifications
- Refer to sheets A-0.3 for mechanical layout per classroom
- Refer to Mechanical plans for more info
- Where Steel stud walls are used the exterior wall assembly shall be as follows:
  U-Value 0.062 (max) - provide 6" (Nominal) studs @ 24" oc with R-19 batt cavity insulation and continious 1.5" rigid foam insulation (R=8.8 min) on the interior side of the wall.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

DESIGN ENERGY VALUES
CONC FLOOR - WALL HVAC

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.51

| Zone<br>Zip Code<br>(Weather Station) | Rotation | ☐ 24x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| Zone 14<br>92301<br>(PALMDALE) | 30 | 73.52 | 17.5% | 73.52 | 17.5% | 6.86 | 18.9% | 0.0% |
| | 75 | 76.12 | 17.8% | 76.12 | 17.8% | 7.13 | 19.5% | 0.0% |
| | 120 | 76.70 | 18.0% | 76.70 | 18.0% | 7.15 | 19.5% | 0.0% |
| | 165 | 66.80 | 16.2% | 66.80 | 16.2% | 6.25 | 17.6% | 0.0% |
| | 210 | 70.21 | 16.9% | 70.21 | 16.9% | 6.52 | 18.2% | 0.0% |
| | 255 | 72.13 | 17.2% | 72.13 | 17.2% | 6.74 | 18.7% | 0.0% |
| | 300 | 72.99 | 17.3% | 72.99 | 17.3% | 6.80 | 18.8% | 0.0% |
| | 345 | 65.76 | 16.0% | 65.76 | 16.0% | 6.17 | 17.5% | 0.0% |
| Zone 15<br>92225<br>(PALM SPRINGS) | 30 | 74.37 | 17.3% | 74.37 | 17.3% | 6.65 | 20.5% | 0.0% |
| | 75 | 79.02 | 18.1% | 79.02 | 18.1% | 7.09 | 21.5% | 0.0% |
| | 120 | 80.35 | 18.4% | 80.35 | 18.4% | 7.22 | 21.8% | 0.0% |
| | 165 | 70.15 | 16.6% | 70.15 | 16.6% | 6.28 | 19.7% | 0.0% |
| | 210 | 70.45 | 16.6% | 70.45 | 16.6% | 6.41 | 19.9% | 0.0% |
| | 255 | 73.20 | 17.1% | 73.20 | 17.1% | 6.68 | 20.5% | 0.0% |
| | 300 | 70.07 | 16.4% | 70.07 | 16.4% | 6.46 | 20.0% | 0.0% |
| | 345 | 68.02 | 16.1% | 68.02 | 16.1% | 6.13 | 19.3% | 0.0% |
| Zone 16<br>96006<br>(BLUE CANYON) | 30 | 53.21 | 14.9% | 53.21 | 14.9% | 19.94 | 33.1% | 0.0% |
| | 75 | 56.14 | 15.5% | 56.14 | 15.5% | 20.03 | 33.1% | 0.0% |
| | 120 | 54.27 | 15.1% | 54.27 | 15.1% | 19.94 | 33.0% | 0.0% |
| | 165 | 43.50 | 12.5% | 43.50 | 12.5% | 19.57 | 32.7% | 0.0% |
| | 210 | 56.63 | 15.7% | 56.63 | 15.7% | 20.15 | 33.3% | 0.0% |
| | 255 | 59.76 | 16.4% | 59.76 | 16.4% | 20.14 | 33.3% | 0.0% |
| | 300 | 56.00 | 15.5% | 56.00 | 15.5% | 19.86 | 33.0% | 0.0% |
| | 345 | 46.08 | 13.2% | 46.08 | 13.2% | 19.50 | 32.7% | 0.0% |

| ☐ 36x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|
| TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| 108.49 | 29.8% | 108.49 | 29.8% | 10.33 | 33.3% | PASS |
| 111.28 | 30.0% | 111.28 | 30.0% | 10.61 | 33.8% | PASS |
| 111.15 | 30.1% | 111.15 | 30.1% | 10.57 | 33.7% | PASS |
| 103.09 | 29.0% | 103.09 | 29.0% | 9.77 | 32.3% | PASS |
| 108.68 | 29.9% | 108.68 | 29.9% | 10.31 | 33.3% | PASS |
| 112.56 | 30.4% | 112.56 | 30.4% | 10.69 | 34.1% | PASS |
| 111.92 | 30.4% | 111.92 | 30.4% | 10.60 | 33.9% | PASS |
| 101.71 | 28.7% | 101.71 | 28.7% | 9.66 | 32.0% | PASS |
| 24.08 | 8.3% | 24.08 | 8.3% | 2.04 | 10.2% | PASS |
| 22.73 | 7.8% | 22.73 | 7.8% | 2.03 | 10.1% | PASS |
| 24.75 | 8.4% | 24.75 | 8.4% | 2.08 | 10.4% | PASS |
| 33.76 | 11.4% | 33.76 | 11.4% | 2.10 | 10.6% | PASS |
| 32.23 | 10.8% | 32.23 | 10.8% | 2.01 | 10.1% | PASS |
| 25.30 | 8.6% | 25.30 | 8.6% | 2.22 | 11.0% | PASS |
| 25.43 | 8.7% | 25.43 | 8.7% | 2.16 | 10.8% | PASS |
| 25.08 | 8.7% | 25.08 | 8.7% | 1.97 | 10.0% | PASS |
| 87.28 | 28.1% | 87.28 | 28.1% | 21.14 | 41.8% | PASS |
| 91.12 | 28.9% | 91.12 | 28.9% | 21.21 | 41.8% | PASS |
| 87.55 | 28.1% | 87.55 | 28.1% | 21.00 | 41.6% | PASS |
| 80.13 | 26.5% | 80.13 | 26.5% | 20.70 | 41.3% | PASS |
| 88.08 | 28.3% | 88.08 | 28.3% | 21.14 | 41.9% | PASS |
| 91.33 | 29.0% | 91.33 | 29.0% | 21.20 | 41.9% | PASS |
| 87.11 | 28.0% | 87.11 | 28.0% | 21.01 | 41.6% | PASS |
| 80.21 | 26.5% | 80.21 | 26.5% | 20.73 | 41.4% | PASS |

☐ **48x40**
(2) 5-ton units

(2) 24x40 CLASSROOMS

☐ **60x40**
(2) 5-ton units

(1) 24x40 CLASSROOM +
(1) 36x40 CLASSROOM

☐ **72x40**
(3) 5-ton units

(3) 24x40 CLASSROOMS

☐ **84x40**
(3) 5-ton units

(2) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **96x40**
(4) 5-ton units

(4) 24x40 CLASSROOMS

☐ **108x40**
(4) 5-ton units

(3) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **120x40**
(5) 5-ton units

(5) 24x40 CLASSROOMS

| Envelope Min Design - Zone: 1-16 | | |
|---|---|---|
| Buildings: All | | |
| Assembly | U-Value | Insulation R-Value |
| Walls: | 0.062 | R-19 batt |
| Floor: | 0.054 | R-19 batt |
| Roof: | 0.055 | R-30 Foam |

| HVAC Min Design - Zone: 1-16 | |
|---|---|
| Building: 24 x 40 | |
| Tonnage | 5 |
| Min. EER / HSPF | 12.0/8.5 |
| Outside Air | See Ventilation Calcs on Mechanical Plans |
| Occupancy Sensor | Yes |
| DCV/ Economizer | Yes |
| Cooling Stages (Min.) | 1 |
| Allowable Mechanical Unit (See Equipment Schedule) | HP 1 STANDARD / HP 2 OPTIONAL |

| HVAC Min Design - Zone: 1-16 | |
|---|---|
| Buildings: 36 x 40 | |
| Tonnage | 5 |
| Min. EER / HSPF | 12.0/8.5 |
| Outside Air | See Ventilation Calcs on Mechanical Plans |
| Occupancy Sensor | Yes |
| DCV/ Economizer | Yes |
| Cooling Stages (Min.) | 2 |
| Allowable Mechanical Unit (See Equipment Schedule) | HP 2 STANDARD |

LEGEND
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTES:
- Interior lights shall be dimmable LED fixtures, 51 Watts Max per fixtures, 4 fixtures per module per floor
- Windows shall be NFRC #INT-A-73-00213-00011 or equal, U-Factor = 0.520 (Max), SHGC = 0.350 (Max), Visual Transmittance = 0.610 (Min)
- Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
- Refer to sheet A-0.2 For windows specifications
- Refer to sheet A-0.2 For insulation specifications
- Refer to sheets A-0.3 for mechanical layout per classroom
- Refer to Mechanical plans for more info
- Where Steel stud walls are used the exterior wall assembly shall be as follows:
  U-Value 0.062 (max) - provide 6" (Nominal) studs @ 24" oc with R-19 batt cavity insulation and continious 1.5" rigid foam insulation (R=8.8 min) on the interior side of the wall.

DESIGN ENERGY VALUES BY BUILDING SIZE - WOOD FLOOR - ROOF HVAC

ENERGY SPECS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

DESIGN ENERGY VALUES
WOOD FLOOR - ROOF HVAC

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.52

| Zone<br>Zip Code<br>(Weather Station) | Rotation | ☐ 24x40<br>(1) 5-ton unit | | | | | | | ☐ 36x40<br>(1) 5-ton unit | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TDV Eff. | % | TDV Total | % | Source EN. | % | Result | TDV Eff. | % | TDV Total | % | Source EN. | % | Result |
| **Zone 14**<br>92301<br>(PALMDALE) | 30 | **75.68** | 18.0% | **75.68** | 18.0% | **6.98** | 19.3% | **0.0%** | **95.31** | 26.2% | **95.31** | 26.2% | **8.77** | 28.3% | **PASS** |
| | 75 | **78.22** | 18.3% | **78.22** | 18.3% | **7.26** | 19.8% | **0.0%** | **98.31** | 26.5% | **98.31** | 26.5% | **9.05** | 28.8% | **PASS** |
| | 120 | **78.82** | 18.5% | **78.82** | 18.5% | **7.27** | 19.8% | **0.0%** | **97.91** | 26.5% | **97.91** | 26.5% | **8.99** | 28.7% | **PASS** |
| | 165 | **69.06** | 16.8% | **69.06** | 16.8% | **6.39** | 17.9% | **0.0%** | **88.70** | 25.0% | **88.70** | 25.0% | **8.13** | 26.9% | **PASS** |
| | 210 | **72.38** | 17.4% | **72.38** | 17.4% | **6.65** | 18.5% | **0.0%** | **95.51** | 26.3% | **95.51** | 26.3% | **8.75** | 28.3% | **PASS** |
| | 255 | **74.24** | 17.7% | **74.24** | 17.7% | **6.87** | 19.0% | **0.0%** | **98.80** | 26.7% | **98.80** | 26.7% | **9.07** | 28.9% | **PASS** |
| | 300 | **75.17** | 17.9% | **75.17** | 17.9% | **6.93** | 19.2% | **0.0%** | **98.08** | 26.6% | **98.08** | 26.6% | **8.98** | 28.7% | **PASS** |
| | 345 | **68.01** | 16.6% | **68.01** | **16.6%** | **6.32** | 17.9% | **0.0%** | **87.68** | 24.8% | **87.68** | **24.8%** | **8.04** | 26.7% | **PASS** |
| **Zone 15**<br>92225<br>(PALM SPRINGS) | 30 | **72.14** | 16.8% | **72.14** | 16.8% | **6.79** | 20.9% | **0.0%** | **7.51** | 2.6% | **7.51** | 2.6% | **0.51** | 2.5% | **PASS** |
| | 75 | **76.94** | 17.6% | **76.94** | 17.6% | **7.22** | 21.9% | **0.0%** | **6.59** | 2.2% | **6.59** | **2.2%** | **0.52** | 2.6% | **PASS** |
| | 120 | **78.02** | 17.8% | **78.02** | 17.8% | **7.34** | 22.2% | **0.0%** | **7.89** | 2.7% | **7.89** | 2.7% | **0.55** | 2.7% | **PASS** |
| | 165 | **67.89** | 16.1% | **67.89** | 16.1% | **6.41** | 20.1% | **0.0%** | **16.78** | 5.6% | **16.78** | 5.6% | **0.56** | 2.8% | **PASS** |
| | 210 | **68.26** | 16.1% | **68.26** | 16.1% | **6.53** | 20.3% | **0.0%** | **15.35** | 5.2% | **15.35** | 5.2% | **0.46** | 2.3% | **PASS** |
| | 255 | **70.52** | 16.4% | **70.52** | 16.4% | **6.80** | 20.9% | **0.0%** | **8.56** | 2.9% | **8.56** | 2.9% | **0.66** | 3.3% | **PASS** |
| | 300 | **67.87** | 15.9% | **67.87** | 15.9% | **6.61** | 20.5% | **0.0%** | **8.02** | 2.7% | **8.02** | 2.7% | **0.56** | 2.8% | **PASS** |
| | 345 | **65.76** | 15.6% | **65.76** | **15.6%** | **6.27** | 19.7% | **0.0%** | **8.18** | 2.8% | **8.18** | 2.8% | **0.43** | 2.2% | **PASS** |
| **Zone 16**<br>96006<br>(BLUE CANYON) | 30 | **53.58** | 15.0% | **53.58** | 15.0% | **19.96** | 33.1% | **0.0%** | **70.82** | 22.8% | **70.82** | 22.8% | **19.50** | 38.6% | **PASS** |
| | 75 | **56.56** | 15.7% | **56.56** | 15.7% | **20.06** | 33.2% | **0.0%** | **74.47** | 23.6% | **74.47** | 23.6% | **19.55** | 38.6% | **PASS** |
| | 120 | **54.70** | 15.2% | **54.70** | 15.2% | **19.96** | 33.0% | **0.0%** | **70.44** | 22.6% | **70.44** | 22.6% | **19.31** | 38.2% | **PASS** |
| | 165 | **43.85** | 12.6% | **43.85** | **12.6%** | **19.58** | 32.7% | **0.0%** | **63.49** | 21.0% | **63.49** | **21.0%** | **19.05** | 38.0% | **PASS** |
| | 210 | **57.00** | 15.8% | **57.00** | 15.8% | **20.16** | 33.3% | **0.0%** | **71.64** | 23.0% | **71.64** | 23.0% | **19.51** | 38.6% | **PASS** |
| | 255 | **60.18** | 16.5% | **60.18** | 16.5% | **20.16** | 33.3% | **0.0%** | **74.64** | 23.7% | **74.64** | 23.7% | **19.54** | 38.6% | **PASS** |
| | 300 | **56.39** | 15.6% | **56.39** | 15.6% | **19.88** | 33.0% | **0.0%** | **70.14** | 22.5% | **70.14** | 22.5% | **19.32** | 38.3% | **PASS** |
| | 345 | **46.54** | 13.3% | **46.54** | 13.3% | **19.52** | 32.7% | **0.0%** | **63.68** | 21.0% | **63.68** | 21.0% | **19.10** | 38.1% | **PASS** |

☐ **48x40**
(2) 5-ton units

(2) 24x40 CLASSROOMS

☐ **60x40**
(2) 5-ton units

(1) 24x40 CLASSROOM +
(1) 36x40 CLASSROOM

☐ **72x40**
(3) 5-ton units

(3) 24x40 CLASSROOMS

☐ **84x40**
(3) 5-ton units

(2) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **96x40**
(4) 5-ton units

(4) 24x40 CLASSROOMS

☐ **108x40**
(4) 5-ton units

(3) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **120x40**
(5) 5-ton units

(5) 24x40 CLASSROOMS

| Envelope Min Design - Zone: 1-16 | | |
|---|---|---|
| Buildings: All | | |
| Assembly | U-Value | Insulation R-Value |
| Walls: | 0.062 | R-19 batt |
| Floor: | 0.054 | R-19 batt |
| Roof: | 0.055 | R-30 Foam |

☐

| HVAC Min Design - Zone: 1-16 | | |
|---|---|---|
| Building: 24 x 40 | | |
| Tonnage | 5 | |
| Min. EER / COP | 11.0/3.3 | |
| Outside Air | See Ventilation Calcs on Mechanical Plans | |
| Occupancy Sensor | Yes | |
| DCV/ Economizer | Yes | |
| Cooling Stages (Min.) | 1 | |
| Allowable Mechanical Unit (See Equipment Schedule) | SPVU 1 STANDARD | SPVU 2 OPTIONAL |

☐

| HVAC Min Design - Zone: 1-16 | |
|---|---|
| Buildings: 36 x 40 | |
| Tonnage | 5 |
| Min. EER / COP | 11.0/3.3 |
| Outside Air | See Ventilation Calcs on Mechanical Plans |
| Occupancy Sensor | Yes |
| DCV/ Economizer | Yes |
| Cooling Stages (Min.) | 2 |
| Allowable Mechanical Unit (See Equipment Schedule) | SPVU 2 STANDARD |

LEGEND
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTES:
- Interior lights shall be dimmable LED fixtures, 51 Watts Max per fixtures, 4 fixtures per module per floor
- Windows shall be NFRC #INT-A-73-00213-00011 or equal, U-Factor = 0.520 (Max), SHGC = 0.350 (Max), Visual Transmittance = 0.610 (Min)
- Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
- Refer to sheet A-0.2 For windows specifications
- Refer to sheet A-0.2 For insulation specifications
- Refer to sheets A-0.3 for mechanical layout per classroom
- Refer to Mechanical plans for more info
- Where Steel stud walls are used the exterior wall assembly shall be as follows:
  U-Value 0.062 (max) - provide 6" (Nominal) studs @ 24" oc with R-19 batt cavity insulation and continious 1.5" rigid foam insulation (R=8.8 min) on the interior side of the wall.

DESIGN ENERGY VALUES BY BUILDING SIZE - WOOD FLOOR - WALL HVAC

ENERGY SPECS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

DESIGN ENERGY VALUES
WOOD FLOOR - WALL HVAC

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.53

| Project Name: | 04-121999 - 24x40 - CONC FLR - RF HVAC | Date Prepared: | 2023-07-17 |
|---|---|---|---|

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | 04-121999 - 24x40 - CONC FLR - RF HVAC | | | |
| 2 | Run Title | | | | |
| 3 | Project Location | - specify - | | | |
| 4 | City | - specify - | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 92301 | 7 | Compliance Software (version) | CBECC 2022.2.1 SP1 (1298) |
| 8 | Climate Zone | 14 | 9 | Building Orientation (deg) | 345 |
| 10 | Building Type(s) | • Relocable Public School Building for use in all climate zones Occupancy: E | 11 | Weather File | PALMDALE_STYP20.epw |
| 12 | Project Scope | • New complete scope | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope (ft²) | 960 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft²) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 960 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |





**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☐ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☒ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |





**C1. COMPLIANCE SUMMARY**

COMPLIES[3]

| | Time Dependent Valuaton (TDV) | | Source Energy Use |
|---|---|---|---|
| | Efficiency[1] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) |
| Standard Design | 410.64 | 410.64 | 35.39 |
| Proposed Design | 351.62 | 351.62 | 29.35 |
| **Compliance Margins** | **59.02** | **59.02** | **6.04** |
| | **Pass** | **Pass** | **Pass** |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*





**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)**

COMPLIES[2]

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 31.03 | 28.78 | 2.25 |
| Space Cooling | 107.73 | 107.28 | 0.45 |
| Indoor Fans | 178.08 | 131.18 | 46.9 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 61.19 | 61.28 | -0.09 |
| Indoor Lighting | 32.61 | 23.1 | 9.51 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **410.64** | **351.62** | **59.02 (14.4%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **410.64** | **351.62** | **59.02 (14.4%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 67.93 | 67.93 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **478.57** | **419.55** | **59.02 (12.3%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*





**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)**

COMPLIES[2]

| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Space Heating | 4.6 | 4.17 | 0.43 |
| Space Cooling | 4.04 | 4.1 | -0.06 |
| Indoor Fans | 17.7 | 12.77 | 4.93 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 6.48 | 6.49 | -0.01 |
| Indoor Lighting | 2.57 | 1.82 | 0.75 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **35.39** | **29.35** | **6.04 (17.1%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **35.39** | **29.35** | **6.04 (17.1%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **40.31** | **34.27** | **6.04 (15%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2





**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 1 | 0.9 | 0.1 | --- | --- | --- |
| Space Cooling | 2.7 | 2.6 | 0.1 | --- | --- | --- |
| Indoor Fans | 6 | 4.4 | 1.6 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | 2.3 | 2.3 | 0 | --- | --- | --- |
| Indoor Lighting | 1.2 | 0.8 | 0.4 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **13.2** | **11** | **2.2** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **13.2** | **11** | **2.2** | **0** | **0** | **0** |
| Receptacle | 2.5 | 2.5 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **15.7** | **13.5** | **2.2** | **0** | **0** | **0** |





**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/ft² / yr) | Proposed Design (kBtu/ft² / yr) | Margin (kBtu/ft² / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 55.8 | 47.98 | 7.82 | 14.01 |
| NET EUI[1] | 55.8 | 47.98 | 7.82 | 14.01 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[1] | 276 | 32 | 11.59 |
| East-Facing[2] | 440 | 0 | 0 |
| South-Facing[3] | 252 | 32 | 12.7 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*





**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| West-Facing[4] | 440 | 0 | 0 |
| **Total** | **1408** | **64** | **4.55** |
| Roof | 960 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| BuildingStory 1 | Air barrier - not verified |





**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value Interior | Continuous R-Value Exterior | Units | Value | Description of Assembly Layers | Status[1] |
| 2x6 T111 WALL | Exterior Wall | 1,408 | Wood | 19 | N/A | N/A | U-factor | 0.0619 | Wood siding - 1/2 in.<br>Vapor seal - plastic film - 1/16 in.<br>SCI - 2x6 WD STUD WALL R-19 16 OC<br>Gypsum Board - 1/2 in.<br>Acoustic Tile - 1/2 in. | N |
| SCI MTL ROOF | Roof | 960 | Metal | 30 | N/A | N/A | U-factor | 0.0554 | Metal Standing Seam - 1/16 in.<br>Building Paper - 1/16 in.<br>Plywood - 3/4 in.<br>SCI - STL JOIST ROOF R-30<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Acoustic Tile - 1/2 in. | N |
| SCI CONC FLOOR | Exterior Floor | 960 | N/A | 0 | N/A | N/A | U-factor | 0.1153 | Vented Crawl Space<br>Concrete - 80 lb/ft3 - 4 in.<br>Linoleum/cork tile - 1/4 in. | N |

*[1] Status: N - New, A - Altered, E - Existing*

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| SCI - STD HM DOOR | 21 | 1.45 | N |

*[1] Status: N - New, A - Altered, E - Existing*





**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area (ft²) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| NFRC #INT-A-73-00213-00011 | Vertical fenestration<br>Operable window<br>N/A | NFRC | Site built | 64 | 0.52 | 0.35 | 0.61 | N |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AirSystem 101 | Single Zone Heat Pump (SZHP) Air System | 1 | 57 | 0 | N/A | NA | 57 | EER<br>SEER | 12<br>15 | Fixed DB | N |

*[1] Status: N - New, A - Altered, E - Existing*





**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Supply Fan | | | | Return / Relief Fan | | | | | |
| Name or Item Tag | Qty | Design OA CFM | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | Status[1] |
| AirSystem 101 | 1 | 468 | 1,750 | 0.9 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AirSystem 101 | Single Zone Heat Pump (SZHP) Air System | No | Zone(s) With CO2 Sensor Vent. Control Fixed DB |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| ThermalZone 101 | Education - Classrooms (ages 9-18) | 31.2 | 468 | 0 | 960 | DCV |





**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| TerminalUnit 101 | Uncontrolled | 1 | N/A | N/A | 1,750 | N/A | 0 | N/A | N/A | N/A | ☐ |

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | | | Additional (Custom) Allowance | |
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| Classroom, Lecture, or Training Vocational | 960 | 408 | 0 | 0 | 0 |
| **Building Totals:** | **960** | **408** | **0** | **0** | **0** |

*[1]See Table 140.6-C*
*[2]See NRCC-LTI--E for unconditioned spaces*
*[3]Lighting information for existing spaces modeled is not included in this table*





**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

**Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | Installed Watts (Conditioned) | | | |
| Name or Item Tag | Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per luminaire | How is Wattage determined | Total Number of Luminaires | Installed Watts |
| SCI - 2x4 LED | --- | 51 | According to | 8 | 408 |

*[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

**Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 2 | 102 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 6 | 306 | 0 |
| | | | | | | Lighting Control Credits (Conditioned) Total (Watts) | | 0 |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

See NRCC-LTI-E for mandatory controls





**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Indoor Lighting | NRCA-LTI-03-A - Automatic Daylight Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |
| Mechanical | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |
| Mechanical | NRCA-MCH-19-A Occupancy Sensor Controls |





**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Mechanical | NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation |





**Documentation Author's Declaration Statement**

**1. I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: SILVER CREEK | Documentation Author Signature: |
| Company: SILVER CREEK | Signature Date: |
| Address: | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: , | Phone: 951-943-5393 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Envelope |
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Lighting |





| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Mechanical |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# PRF FORMS 24x40 - ZONE 14 WORST CASE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.54

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 1 of 19)

**Project Name:** 04-121999 - 24x40 - CONC FLR - RF HVAC — **Date Prepared:** 2023-07-17

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | 04-121999 - 24x40 - CONC FLR - RF HVAC | | | |
| 2 | Run Title | | | | |
| 3 | Project Location | - specify - | | | |
| 4 | City | - specify - | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 92225 | 7 | Compliance Software (version) | CBECC 2022.2.1 SP1 (1298) |
| 8 | Climate Zone | 15 | 9 | Building Orientation (deg) | 345 |
| 10 | Building Type(s) | • Relocable Public School Building for use in all climate zones Occupancy: E | 11 | Weather File | PALM-SPRINGS_STYP20.epw |
| 12 | Project Scope | • New complete scope | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope (ft²) | 960 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft²) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 960 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 2 of 19)

**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☐ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☒ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 3 of 19)

**C1. COMPLIANCE SUMMARY**

COMPLIES[3]

| | Time Dependent Valuaton (TDV) | | Source Energy Use |
|---|---|---|---|
| | Efficiency[1] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) |
| Standard Design | 421.74 | 421.74 | 31.74 |
| Proposed Design | 374.85 | 374.85 | 27.42 |
| **Compliance Margins** | **46.89** | **46.89** | **4.32** |
| | **Pass** | **Pass** | **Pass** |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 4 of 19)

**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)**

COMPLIES[2]

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 6.05 | 6.2 | -0.15 |
| Space Cooling | 176.5 | 176.12 | 0.38 |
| Indoor Fans | 163.21 | 126.15 | 37.06 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 43.76 | 43.56 | 0.2 |
| Indoor Lighting | 32.22 | 22.82 | 9.4 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **421.74** | **374.85** | **46.89 (11.1%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **421.74** | **374.85** | **46.89 (11.1%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 5 of 19)

**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 66.69 | 66.69 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **488.43** | **441.54** | **46.89 (9.6%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 6 of 19)

**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)**

COMPLIES[2]

| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Space Heating | 0.83 | 0.84 | -0.01 |
| Space Cooling | 8.73 | 8.65 | 0.08 |
| Indoor Fans | 15.02 | 11.51 | 3.51 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 4.59 | 4.6 | -0.01 |
| Indoor Lighting | 2.57 | 1.82 | 0.75 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **31.74** | **27.42** | **4.32 (13.6%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **31.74** | **27.42** | **4.32 (13.6%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 7 of 19)

**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **36.66** | **32.34** | **4.32 (11.8%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 8 of 19)

**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 0.2 | 0.2 | 0 | --- | --- | --- |
| Space Cooling | 5.2 | 5.1 | 0.1 | --- | --- | --- |
| Indoor Fans | 5.5 | 4.3 | 1.2 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | 1.6 | 1.6 | 0 | --- | --- | --- |
| Indoor Lighting | 1.2 | 0.8 | 0.4 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **13.7** | **12** | **1.7** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **13.7** | **12** | **1.7** | **0** | **0** | **0** |
| Receptacle | 2.5 | 2.5 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **16.2** | **14.5** | **1.7** | **0** | **0** | **0** |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 9 of 19)

**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/ft² / yr) | Proposed Design (kBtu/ft² / yr) | Margin (kBtu/ft² / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 57.58 | 51.54 | 6.04 | 10.49 |
| NET EUI[1] | 57.58 | 51.54 | 6.04 | 10.49 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[1] | 276 | 32 | 11.59 |
| East-Facing[2] | 440 | 0 | 0 |
| South-Facing[3] | 252 | 32 | 12.7 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 10 of 19)

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| West-Facing[4] | 440 | 0 | 0 |
| **Total** | **1408** | **64** | **4.55** |
| Roof | 960 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| BuildingStory 1 | Air barrier - not verified |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 11 of 19)

**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value Interior | Continuous R-Value Exterior | Units | Value | Description of Assembly Layers | Status[1] |
| 2x6 T111 WALL | Exterior Wall | 1,408 | Wood | 19 | N/A | N/A | U-factor | 0.0619 | Wood siding - 1/2 in.<br>Vapor seal - plastic film - 1/16 in.<br>SCI - 2x6 WD STUD WALL R-19 16 OC<br>Gypsum Board - 1/2 in.<br>Acoustic Tile - 1/2 in. | N |
| SCI MTL ROOF | Roof | 960 | Metal | 30 | N/A | N/A | U-factor | 0.0554 | Metal Standing Seam - 1/16 in.<br>Building Paper - 1/16 in.<br>Plywood - 3/4 in.<br>SCI - STL JOIST ROOF R-30<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Acoustic Tile - 1/2 in. | N |
| SCI CONC FLOOR | Exterior Floor | 960 | N/A | 0 | N/A | N/A | U-factor | 0.1153 | Vented Crawl Space<br>Concrete - 80 lb/ft3 - 4 in.<br>Linoleum/cork tile - 1/4 in. | N |

*[1] Status: N - New, A - Altered, E - Existing*

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| SCI - STD HM DOOR | 21 | 1.45 | N |

*[1] Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 12 of 19)

**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area (ft²) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| NFRC #INT-A-73-00213-00011 | Vertical fenestration<br>Operable window<br>N/A | NFRC | Site built | 64 | 0.52 | 0.35 | 0.61 | N |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AirSystem 101 | Single Zone Heat Pump (SZHP) Air System | 1 | 57 | 0 | N/A | NA | 57 | EER<br>SEER | 12<br>15 | Fixed DB | N |

*[1] Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 13 of 19)

**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Supply Fan | | | | Return / Relief Fan | | | | | |
| Name or Item Tag | Qty | Design OA CFM | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | Status[1] |
| AirSystem 101 | 1 | 468 | 1,750 | 0.9 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AirSystem 101 | Single Zone Heat Pump (SZHP) Air System | No | Zone(s) With CO2 Sensor Vent. Control Fixed DB |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| ThermalZone 101 | Education - Classrooms (ages 9-18) | 31.2 | 468 | 0 | 960 | DCV |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 14 of 19)

**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| TerminalUnit 101 | Uncontrolled | 1 | N/A | N/A | 1,750 | N/A | 0 | N/A | N/A | N/A | ☐ |

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | | | Additional (Custom) Allowance | |
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| Classroom, Lecture, or Training Vocational | 960 | 408 | 0 | 0 | 0 |
| **Building Totals:** | **960** | **408** | **0** | **0** | **0** |

*[1]See Table 140.6-C*
*[2]See NRCC-LTI--E for unconditioned spaces*
*[3]Lighting information for existing spaces modeled is not included in this table*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 15 of 19)

**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | Installed Watts (Conditioned) | | | |
| Name or Item Tag | Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per luminaire | How is Wattage determined | Total Number of Luminaires | Installed Watts |
| SCI - 2x4 LED | --- | 51 | According to | 8 | 408 |

*[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 2 | 102 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 6 | 306 | 0 |
| | | | | | | | Lighting Control Credits (Conditioned) Total (Watts) | 0 |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

See NRCC-LTI-E for mandatory controls



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 16 of 19)

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Indoor Lighting | NRCA-LTI-03-A - Automatic Daylight Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |
| Mechanical | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |
| Mechanical | NRCA-MCH-19-A Occupancy Sensor Controls |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 17 of 19)

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Mechanical | NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 18 of 19)

**Documentation Author's Declaration Statement**

**1. I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: SILVER CREEK | Documentation Author Signature: |
| Company: SILVER CREEK | Signature Date: |
| Address: | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: , | Phone: 951-943-5393 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Envelope |
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Lighting |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — NRCC-PRF-E

**Nonresidential Performance Compliance Method** — (Page 19 of 19)

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Mechanical |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# PRF FORMS 24x40 - ZONE 15 WORST CASE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.55

| Project Name: | 04-121999 - 24x40 - CONC FLR - RF HVAC | Date Prepared: | 2023-07-17 |
|---|---|---|---|

**A. General Information**

| # | Item | Value | # | Item | Value |
|---|---|---|---|---|---|
| 1 | Project Name | 04-121999 - 24x40 - CONC FLR - RF HVAC | | | |
| 2 | Run Title | | | | |
| 3 | Project Location | - specify - | | | |
| 4 | City | - specify - | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 96006 | 7 | Compliance Software (version) | CBECC 2022.2.1 SP1 (1298) |
| 8 | Climate Zone | 16 | 9 | Building Orientation (deg) | 165 |
| 10 | Building Type(s) | • Relocable Public School Building for use in all climate zones Occupancy: E | 11 | Weather File | BLUE-CANYON_STYP20.epw |
| 12 | Project Scope | • New complete scope | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope (ft²) | 960 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft²) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 960 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |





**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☐ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☒ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |





**C1. COMPLIANCE SUMMARY**

COMPLIES[3]

| | Time Dependent Valuaton (TDV) | | Source Energy Use |
|---|---|---|---|
| | Efficiency[1] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) |
| Standard Design | 347.46 | 347.46 | 59.92 |
| Proposed Design | 319.82 | 319.82 | 41.38 |
| **Compliance Margins** | **27.64** | **27.64** | **18.54** |
| | **Pass** | **Pass** | **Pass** |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*





**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)**

COMPLIES[2]

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 71.12 | 101.19 | -30.07 |
| Space Cooling | 20.15 | 18.52 | 1.63 |
| Indoor Fans | 183.24 | 136.22 | 47.02 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 41.89 | 41.89 | 0 |
| Indoor Lighting | 31.06 | 22 | 9.06 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **347.46** | **319.82** | **27.64 (8%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **347.46** | **319.82** | **27.64 (8%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 63.66 | 63.66 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **411.12** | **383.48** | **27.64 (6.7%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*





**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)**

COMPLIES[2]

| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Space Heating | 22.6 | 9.71 | 12.89 |
| Space Cooling | 1.36 | 1.31 | 0.05 |
| Indoor Fans | 18.3 | 13.45 | 4.85 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 15.09 | 15.09 | 0 |
| Indoor Lighting | 2.57 | 1.82 | 0.75 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **59.92** | **41.38** | **18.54 (30.9%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **59.92** | **41.38** | **18.54 (30.9%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **64.84** | **46.3** | **18.54 (28.6%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2





**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 0.1 | 2.6 | -2.5 | 23 | --- | --- |
| Space Cooling | 0.8 | 0.7 | 0.1 | --- | --- | --- |
| Indoor Fans | 6.1 | 4.5 | 1.6 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | --- | --- | --- | 15.8 | 15.8 | 0 |
| Indoor Lighting | 1.2 | 0.8 | 0.4 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **8.2** | **8.6** | **-0.4** | **38.8** | **15.8** | **23** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **8.2** | **8.6** | **-0.4** | **38.8** | **15.8** | **23** |
| Receptacle | 2.5 | 2.5 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **10.7** | **11.1** | **-0.4** | **38.8** | **15.8** | **23** |





**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/ft² / yr) | Proposed Design (kBtu/ft² / yr) | Margin (kBtu/ft² / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 78.45 | 55.91 | 22.54 | 28.73 |
| NET EUI[1] | 78.45 | 55.91 | 22.54 | 28.73 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[1] | 252 | 32 | 12.7 |
| East-Facing[2] | 440 | 0 | 0 |
| South-Facing[3] | 276 | 32 | 11.59 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*





**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| West-Facing[4] | 440 | 0 | 0 |
| **Total** | **1408** | **64** | **4.55** |
| Roof | 960 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| BuildingStory 1 | Air barrier - not verified |





**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value Interior | Continuous R-Value Exterior | Units | Value | Description of Assembly Layers | Status[1] |
| 2x6 T111 WALL | Exterior Wall | 1,408 | Wood | 19 | N/A | N/A | U-factor | 0.0619 | Wood siding - 1/2 in. Vapor seal - plastic film - 1/16 in. SCI - 2x6 WD STUD WALL R-19 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in. | N |
| SCI MTL ROOF | Roof | 960 | Metal | 30 | N/A | N/A | U-factor | 0.0554 | Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. SCI - STL JOIST ROOF R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in. | N |
| SCI CONC FLOOR | Exterior Floor | 960 | N/A | 0 | N/A | N/A | U-factor | 0.1153 | Vented Crawl Space Concrete - 80 lb/ft3 - 4 in. Linoleum/cork tile - 1/4 in. | N |

*[1] Status: N - New, A - Altered, E - Existing*

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| SCI - STD HM DOOR | 21 | 1.45 | N |

*[1] Status: N - New, A - Altered, E - Existing*





**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area (ft²) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| NFRC #INT-A-73-00213-00011 | Vertical fenestration Operable window N/A | NFRC | Site built | 64 | 0.52 | 0.35 | 0.61 | N |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AirSystem 101 | Single Zone Heat Pump (SZHP) Air System | 1 | 57 | 0 | N/A | NA | 57 | EER SEER | 12 15 | Fixed DB | N |

*[1] Status: N - New, A - Altered, E - Existing*





**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Supply Fan | | | | Return / Relief Fan | | | | | |
| Name or Item Tag | Qty | Design OA CFM | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | Status[1] |
| AirSystem 101 | 1 | 468 | 1,750 | 0.9 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AirSystem 101 | Single Zone Heat Pump (SZHP) Air System | No | Zone(s) With CO2 Sensor Vent. Control Fixed DB |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| ThermalZone 101 | Education - Classrooms (ages 9-18) | 31.2 | 468 | 0 | 960 | DCV |





**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| TerminalUnit 101 | Uncontrolled | 1 | N/A | N/A | 1,750 | N/A | 0 | N/A | N/A | N/A | ☐ |

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | | | Additional (Custom) Allowance | |
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| Classroom, Lecture, or Training Vocational | 960 | 408 | 0 | 0 | 0 |
| **Building Totals:** | **960** | **408** | **0** | **0** | **0** |

*[1]See Table 140.6-C*
*[2]See NRCC-LTI--E for unconditioned spaces*
*[3]Lighting information for existing spaces modeled is not included in this table*





**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | Installed Watts (Conditioned) | | | |
| Name or Item Tag | Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per luminaire | How is Wattage determined | Total Number of Luminaires | Installed Watts |
| SCI - 2x4 LED | --- | 51 | According to | 8 | 408 |

*[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 2 | 102 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 6 | 306 | 0 |
| Lighting Control Credits (Conditioned) Total (Watts) | | | | | | | | 0 |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

See NRCC-LTI-E for mandatory controls





**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Indoor Lighting | NRCA-LTI-03-A - Automatic Daylight Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |
| Mechanical | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |
| Mechanical | NRCA-MCH-19-A Occupancy Sensor Controls |





**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Mechanical | NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation |





**Documentation Author's Declaration Statement**

| **1. I certify that this Certificate of Compliance documentation is accurate and complete.** | |
|---|---|
| Documentation Author Name: SILVER CREEK | Documentation Author Signature: |
| Company: SILVER CREEK | Signature Date: |
| Address: | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: , | Phone: 951-943-5393 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Envelope |
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Lighting |





| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Mechanical |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# PRF FORMS 24x40 - ZONE 16 WORST CASE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.56

| Project Name: | 04-121999 - 36x40 - WD FLR - WALL HVAC | Date Prepared: | 2023-07-18 |
|---|---|---|---|

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | 04-121999 - 36x40 - WD FLR - WALL HVAC | | | |
| 2 | Run Title | | | | |
| 3 | Project Location | - specify - | | | |
| 4 | City | - specify - | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 92301 | 7 | Compliance Software (version) | CBECC 2022.2.1 SP1 (1298) |
| 8 | Climate Zone | 14 | 9 | Building Orientation (deg) | 345 |
| 10 | Building Type(s) | • Relocable Public School Building for use in all climate zones Occupancy: E | 11 | Weather File | PALMDALE_STYP20.epw |
| 12 | Project Scope | • New complete scope | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope ($ft^2$) | 1440 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area ($ft^2$) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 1440 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |





**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☐ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☒ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |





**C1. COMPLIANCE SUMMARY**

COMPLIES[3]

| | Time Dependent Valuaton (TDV) | | Source Energy Use |
|---|---|---|---|
| | Efficiency[1] ($kBtu/ft^2$ - yr) | Total[2] ($kBtu/ft^2$ - yr) | Total[2] ($kBtu/ft^2$ - yr) |
| Standard Design | 354.06 | 354.06 | 30.15 |
| Proposed Design | 266.39 | 266.39 | 22.1 |
| **Compliance Margins** | **87.67** | **87.67** | **8.05** |
| | **Pass** | **Pass** | **Pass** |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*





**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, $kBtu/ft^2$ - yr)**

COMPLIES[2]

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 28.01 | 36.84 | -8.83 |
| Space Cooling | 94.92 | 93.54 | 1.38 |
| Indoor Fans | 154.98 | 69.39 | 85.59 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 43.54 | 43.52 | 0.02 |
| Indoor Lighting | 32.61 | 23.1 | 9.51 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **354.06** | **266.39** | **87.67 (24.8%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **354.06** | **266.39** | **87.67 (24.8%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 67.93 | 67.93 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **421.99** | **334.32** | **87.67 (20.8%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*





**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, $kBtu/ft^2$ /yr)**

COMPLIES[2]

| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Space Heating | 4.15 | 5.45 | -1.3 |
| Space Cooling | 3.55 | 3.4 | 0.15 |
| Indoor Fans | 15.33 | 6.88 | 8.45 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 4.55 | 4.55 | 0 |
| Indoor Lighting | 2.57 | 1.82 | 0.75 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **30.15** | **22.1** | **8.05 (26.7%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **30.15** | **22.1** | **8.05 (26.7%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **35.07** | **27.02** | **8.05 (23%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2





**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 1.3 | 1.7 | -0.4 | --- | --- | --- |
| Space Cooling | 3.5 | 3.4 | 0.1 | --- | --- | --- |
| Indoor Fans | 7.9 | 3.5 | 4.4 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | 2.5 | 2.5 | 0 | --- | --- | --- |
| Indoor Lighting | 1.8 | 1.3 | 0.5 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **17** | **12.4** | **4.6** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **17** | **12.4** | **4.6** | **0** | **0** | **0** |
| Receptacle | 3.8 | 3.8 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **20.8** | **16.2** | **4.6** | **0** | **0** | **0** |





**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design ($kBtu/ft^2$ / yr) | Proposed Design ($kBtu/ft^2$ / yr) | Margin ($kBtu/ft^2$ / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 49.28 | 38.38 | 10.9 | 22.12 |
| NET EUI[1] | 49.28 | 38.38 | 10.9 | 22.12 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area ($ft^2$) | Total Fenestration Area ($ft^2$) | Window to Wall Ratio (%) |
| North-Facing[1] | 414 | 64 | 15.46 |
| East-Facing[2] | 440 | 0 | 0 |
| South-Facing[3] | 378 | 32 | 8.47 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*





**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area ($ft^2$) | Total Fenestration Area ($ft^2$) | Window to Wall Ratio (%) |
| West-Facing[4] | 440 | 0 | 0 |
| **Total** | **1672** | **96** | **5.74** |
| Roof | 1440 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| BuildingStory 1 | Air barrier - not verified |





**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area ($ft^2$) | Framing Type | Cavity R-Value | Continuous R-Value Interior | Continuous R-Value Exterior | Units | Value | Description of Assembly Layers | Status[1] |
| SCI PLYWD FLOOR | Exterior Floor | 1,440 | Metal | 19 | N/A | N/A | U-factor | 0.0544 | Vented Crawl Space<br>SCI - STL JOIST FLOOR R-19 >16 OC<br>Plywood - 1 in.<br>Linoleum/cork tile - 1/4 in. | N |
| 2x6 T111 WALL | Exterior Wall | 1,672 | Wood | 19 | N/A | N/A | U-factor | 0.0619 | Wood siding - 1/2 in.<br>Vapor seal - plastic film - 1/16 in.<br>SCI - 2x6 WD STUD WALL R-19 16 OC<br>Gypsum Board - 1/2 in.<br>Acoustic Tile - 1/2 in. | N |
| SCI MTL ROOF | Roof | 1,440 | Metal | 30 | N/A | N/A | U-factor | 0.0554 | Metal Standing Seam - 1/16 in.<br>Building Paper - 1/16 in.<br>Plywood - 3/4 in.<br>SCI - STL JOIST ROOF R-30<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Acoustic Tile - 1/2 in. | N |

*[1] Status: N - New, A - Altered, E - Existing*

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area ($ft^2$) | Overall U-factor | Status[1] |
| SCI - STD HM DOOR | 42 | 1.45 | N |

*[1] Status: N - New, A - Altered, E - Existing*





**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area ($ft^2$) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| NFRC #INT-A-73-00213-00011 | Vertical fenestration<br>Operable window<br>N/A | NFRC | Site built | 96 | 0.52 | 0.35 | 0.61 | N |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AirSystem 101 | Single Package VHP Air System | 1 | 52 | 0 | COP | 3.3 | 56 | EER | 11 | Fixed DB | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Supply Fan | | | | Return / Relief Fan | | | | | |
| Name or Item Tag | Qty | Design OA CFM | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | Status[1] |
| AirSystem 101 | 1 | 540 | 1,650 | 0.67 | BHP | VSD | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*





**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AirSystem 101 | Single Package VHP Air System | No | Zone(s) With CO2 Sensor Vent. Control Fixed DB |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| ThermalZone 101 | Education - Classrooms (ages 9-18) | 36 | 540 | 0 | 1440 | DCV |

**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| TerminalUnit 101 | Uncontrolled | 1 | N/A | N/A | 1,650 | N/A | 0 | N/A | N/A | N/A | ☐ |





**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | | | Additional (Custom) Allowance | |
| Occupancy Type[1] | Conditioned Floor Area[2] ($ft^2$) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| Classroom, Lecture, or Training Vocational | 1440 | 612 | 0 | 0 | 0 |
| **Building Totals:** | **1440** | **612** | **0** | **0** | **0** |

*[1]See Table 140.6-C*
*[2]See NRCC-LTI--E for unconditioned spaces*
*[3]Lighting information for existing spaces modeled is not included in this table*

**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

**Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 $w/ft^2$ in offices)**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | Installed Watts (Conditioned) | | | |
| Name or Item Tag | Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per luminaire | How is Wattage determined | Total Number of Luminaires | Installed Watts |
| SCI - 2x4 LED | --- | 51 | According to | 12 | 612 |

*[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*





**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

**Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 3 | 153 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 9 | 459 | 0 |
| | | | | | | Lighting Control Credits (Conditioned) Total (Watts) | | 0 |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

See NRCC-LTI-E for mandatory controls

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |





**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Indoor Lighting | NRCA-LTI-03-A - Automatic Daylight Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |
| Mechanical | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |
| Mechanical | NRCA-MCH-19-A Occupancy Sensor Controls |

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Mechanical | NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation |





**Documentation Author's Declaration Statement**

**1. I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: SILVER CREEK | Documentation Author Signature: |
| Company: SILVER CREEK | Signature Date: |
| Address: | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: , | Phone: 951-943-5393 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Envelope |
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Lighting |





| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Mechanical |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# PRF FORMS 36x40 - ZONE 14 WORST CASE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.57

| Project Name: | 04-121999 - 36x40 - CONC FLR - WALL HVAC | Date Prepared: | 2023-07-17 |
|---|---|---|---|

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | 04-121999 - 36x40 - CONC FLR - WALL HVAC | | | |
| 2 | Run Title | | | | |
| 3 | Project Location | - specify - | | | |
| 4 | City | - specify - | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 92225 | 7 | Compliance Software (version) | CBECC 2022.2.1 SP1 (1298) |
| 8 | Climate Zone | 15 | 9 | Building Orientation (deg) | 75 |
| 10 | Building Type(s) | • Relocable Public School Building for use in all climate zones Occupancy: E | 11 | Weather File | PALM-SPRINGS_STYP20.epw |
| 12 | Project Scope | • New complete scope | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope (ft²) | 1440 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft²) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 1440 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |





**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☐ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☒ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |





**C1. COMPLIANCE SUMMARY**

COMPLIES[3]

| | Time Dependent Valuaton (TDV) | | Source Energy Use |
|---|---|---|---|
| | Efficiency[1] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) |
| Standard Design | 292.9 | 292.9 | 20.07 |
| Proposed Design | 286.71 | 286.71 | 19.69 |
| **Compliance Margins** | **6.19** | **6.19** | **0.38** |
| | **Pass** | **Pass** | **Pass** |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*





**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)**

COMPLIES[2]

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 10.6 | 6.81 | 3.79 |
| Space Cooling | 150.25 | 156.03 | -5.78 |
| Indoor Fans | 68.71 | 69.74 | -1.03 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 31.12 | 31.31 | -0.19 |
| Indoor Lighting | 32.22 | 22.82 | 9.4 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **292.9** | **286.71** | **6.19 (2.1%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **292.9** | **286.71** | **6.19 (2.1%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 66.69 | 66.69 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **359.59** | **353.4** | **6.19 (1.7%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*





**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)**

COMPLIES[2]

| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Space Heating | 1.51 | 0.93 | 0.58 |
| Space Cooling | 7.29 | 7.43 | -0.14 |
| Indoor Fans | 5.48 | 6.29 | -0.81 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 3.22 | 3.22 | 0 |
| Indoor Lighting | 2.57 | 1.82 | 0.75 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **20.07** | **19.69** | **0.38 (1.9%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **20.07** | **19.69** | **0.38 (1.9%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*





**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **24.99** | **24.61** | **0.38 (1.5%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2





**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 0.4 | 0.3 | 0.1 | --- | --- | --- |
| Space Cooling | 6.6 | 6.8 | -0.2 | --- | --- | --- |
| Indoor Fans | 3.4 | 3.6 | -0.2 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | 1.8 | 1.8 | 0 | --- | --- | --- |
| Indoor Lighting | 1.8 | 1.3 | 0.5 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **14** | **13.8** | **0.2** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **14** | **13.8** | **0.2** | **0** | **0** | **0** |
| Receptacle | 3.8 | 3.8 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **17.8** | **17.6** | **0.2** | **0** | **0** | **0** |





**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/ft² / yr) | Proposed Design (kBtu/ft² / yr) | Margin (kBtu/ft² / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 42.18 | 41.7 | 0.48 | 1.14 |
| NET EUI[1] | 42.18 | 41.7 | 0.48 | 1.14 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[1] | 440 | 0 | 0 |
| East-Facing[2] | 414 | 64 | 15.46 |
| South-Facing[3] | 440 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*





**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| West-Facing[4] | 378 | 32 | 8.47 |
| **Total** | **1672** | **96** | **5.74** |
| Roof | 1440 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| BuildingStory 1 | Air barrier - not verified |





**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value | | Units | Value | Description of Assembly Layers | Status[1] |
| | | | | | Interior | Exterior | | | | |
| 2x6 T111 WALL | Exterior Wall | 1,672 | Wood | 19 | N/A | N/A | U-factor | 0.0619 | Wood siding - 1/2 in.<br>Vapor seal - plastic film - 1/16 in.<br>SCI - 2x6 WD STUD WALL R-19 16 OC<br>Gypsum Board - 1/2 in.<br>Acoustic Tile - 1/2 in. | N |
| SCI MTL ROOF | Roof | 1,440 | Metal | 30 | N/A | N/A | U-factor | 0.0554 | Metal Standing Seam - 1/16 in.<br>Building Paper - 1/16 in.<br>Plywood - 3/4 in.<br>SCI - STL JOIST ROOF R-30<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Acoustic Tile - 1/2 in. | N |
| SCI CONC FLOOR - R11 | Exterior Floor | 1,440 | Metal | 11 | N/A | N/A | U-factor | 0.0656 | Vented Crawl Space<br>SCI - CONC FLOOR JOISTS R-11<br>Concrete - 80 lb/ft3 - 4 in.<br>Linoleum/cork tile - 1/4 in. | N |

*[1] Status: N - New, A - Altered, E - Existing*

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| SCI - STD HM DOOR | 42 | 1.45 | N |

*[1] Status: N - New, A - Altered, E - Existing*





**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area (ft²) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| NFRC #INT-A-73-00213-00011 | Vertical fenestration<br>Operable window<br>N/A | NFRC | Site built | 96 | 0.52 | 0.35 | 0.61 | N |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AirSystem 101 | Single Package VHP Air System | 1 | 52.5 | 0 | COP | 3.3 | 54.5 | EER | 11 | Fixed DB | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Supply Fan | | | | Return / Relief Fan | | | | | |
| Name or Item Tag | Qty | Design OA CFM | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | Status[1] |
| AirSystem 101 | 1 | 540 | 1,750 | 0.75 | BHP | Constant Vol | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*





**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AirSystem 101 | Single Package VHP Air System | No | Zone(s) With CO2 Sensor Vent. Control Fixed DB |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | |
| Zone Name | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| ThermalZone 101 | Education - Classrooms (ages 9-18) | 36 | 540 | 0 | 1440 | DCV |

**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| System ID | System Type | Qty | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | VSD |
| TerminalUnit 101 | Uncontrolled | 1 | N/A | N/A | 1,750 | N/A | 0 | N/A | N/A | N/A | ☐ |





**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | | | Additional (Custom) Allowance | |
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| Classroom, Lecture, or Training Vocational | 1440 | 612 | 0 | 0 | 0 |
| **Building Totals:** | **1440** | **612** | **0** | **0** | **0** |

*[1]See Table 140.6-C*
*[2]See NRCC-LTI--E for unconditioned spaces*
*[3]Lighting information for existing spaces modeled is not included in this table*

**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

**Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| | | Installed Watts (Conditioned) | | | |
| Name or Item Tag | Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per luminaire | How is Wattage determined | Total Number of Luminaires | Installed Watts |
| SCI - 2x4 LED | --- | 51 | According to | 12 | 612 |

*[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*





**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

**Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 3 | 153 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 9 | 459 | 0 |
| | | | | | | | Lighting Control Credits (Conditioned) Total (Watts) | 0 |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

See NRCC-LTI-E for mandatory controls

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |





**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Indoor Lighting | NRCA-LTI-03-A - Automatic Daylight Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |
| Mechanical | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |
| Mechanical | NRCA-MCH-19-A Occupancy Sensor Controls |

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Mechanical | NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation |





**Documentation Author's Declaration Statement**

| 1. I certify that this Certificate of Compliance documentation is accurate and complete. | |
|---|---|
| Documentation Author Name: SILVER CREEK | Documentation Author Signature: |
| Company: SILVER CREEK | Signature Date: |
| Address: | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: , | Phone: 951-943-5393 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Envelope |
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Lighting |





| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Mechanical |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# PRF FORMS 36x40 - ZONE 15 WORST CASE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER
A-0.58

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 1 of 18)**

**Project Name:** 04-121999 - 36x40 - WD FLR - WALL HVAC — **Date Prepared:** 2023-07-18

| A. General Information | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | 04-121999 - 36x40 - WD FLR - WALL HVAC | | | |
| 2 | Run Title | | | | |
| 3 | Project Location | - specify - | | | |
| 4 | City | - specify - | 5 | Standards Version | Compliance 2022 |
| 6 | Zip code | 96006 | 7 | Compliance Software (version) | CBECC 2022.2.1 SP1 (1298) |
| 8 | Climate Zone | 16 | 9 | Building Orientation (deg) | 165 |
| 10 | Building Type(s) | • Relocable Public School Building for use in all climate zones Occupancy: E | 11 | Weather File | BLUE-CANYON_STYP20.epw |
| 12 | Project Scope | • New complete scope | 13 | Number of Dwelling Units | 0 |
| 14 | Total Conditioned Floor Area in Scope (ft²) | 1440 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft²) | 0 | 17 | Fuel Type | Natural gas |
| 18 | Nonresidential Conditioned Floor Area | 1440 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 2 of 18)**

**B. PROJECT SUMMARY**

*Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.*

| Building Components Complying via Performance | | | | | | Building Components Complying Prescriptively | |
|---|---|---|---|---|---|---|---|
| Envelope (See Table G) | Nonres | Performance | Solar Thermal Water Heating (See Table I3) | ☐ | Performance | The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). | |
| | MultiFam | Not Included | | ☒ | Not Included | | |
| Mechanical (See Table H) | Nonres | Performance | Covered Process: Commercial Kitchens (see Table J) | ☐ | Performance | Indoor Lighting (Unconditioned) 140.6 & 170.2(e) | NRCC-LTI-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | Outdoor Lighting 140.7 & 170.2(e) | NRCC-LTO-E is required |
| Domestic Hot Water (See Table I) | Nonres | Not Included | Covered Process: Laboratory Exhaust (see Table J) | ☐ | Performance | Sign Lighting 140.8 & 170.2(e) | NRCC-LTS-E is required |
| | MultiFam | Not Included | | ☒ | Not Included | **Building Components Complying with Mandatory Measures** | |
| Lighting (Indoor Conditioned, see Table K) | Nonres | Performance | Photovoltaics (see Table F) | ☐ | Performance | Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.) | |
| | MultiFam | Not Included | | ☒ | Not Included | Electrical Power Distribution 110.11 | NRCC-ELC-E is required |
| | | | Battery (see Table F) | ☐ | Performance | Commissioning 120.8 | NRCC-CXR-E is required |
| | | | | ☒ | Not Included | Solar and Battery 110.10 | NRCC-SAB-E is required |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 3 of 18)**

**C1. COMPLIANCE SUMMARY**

**COMPLIES[3]**

| | Time Dependent Valuaton (TDV) | | Source Energy Use |
|---|---|---|---|
| | Efficiency[1] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) | Total[2] (kBtu/ft² - yr) |
| Standard Design | 302.73 | 302.73 | 50.07 |
| Proposed Design | 239.24 | 239.24 | 31.01 |
| **Compliance Margins** | **63.49** | **63.49** | **19.06** |
| | Pass | Pass | Pass |

*[1] Efficiency measures include improvements like a better building envelope and more efficient equipment*
*[2] Compliance Totals include efficiency, photovoltaics and batteries*
*[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 4 of 18)**

**C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)**

**COMPLIES[2]**

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 60.15 | 98.26 | -38.11 |
| Space Cooling | 17.95 | 17.18 | 0.77 |
| Indoor Fans | 163.12 | 71.34 | 91.78 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 30.46 | 30.46 | 0 |
| Indoor Lighting | 31.05 | 22 | 9.05 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **302.73** | **239.24** | **63.49 (21%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **302.73** | **239.24** | **63.49 (21%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 5 of 18)**

**C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | 63.66 | 63.66 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **366.39** | **302.9** | **63.49 (17.3%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 6 of 18)**

**C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)**

**COMPLIES[2]**

| Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Space Heating | 19.06 | 9.93 | 9.13 |
| Space Cooling | 1.21 | 1.14 | 0.07 |
| Indoor Fans | 16.26 | 7.15 | 9.11 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 10.97 | 10.97 | 0 |
| Indoor Lighting | 2.57 | 1.82 | 0.75 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **50.07** | **31.01** | **19.06 (38.1%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **50.07** | **31.01** | **19.06 (38.1%)** |

*[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 7 of 18)**

**C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]**

| Non-Regulated Energy Component | Standard Design (SOURCE) | Proposed Design (SOURCE) | Compliance Margin (SOURCE)[1] |
|---|---|---|---|
| Receptacle | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **54.99** | **35.93** | **19.06 (34.7%)** |

*[1] Notes: This table is not used for Energy Code Compliance.*

**C6. 'ABOVE CODE' QUALIFICATIONS**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 8 of 18)**

**C7. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | 0.2 | 3.8 | -3.6 | 29 | --- | --- |
| Space Cooling | 1.1 | 1.1 | 0 | --- | --- | --- |
| Indoor Fans | 8.2 | 3.6 | 4.6 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | --- | --- | --- | 17.2 | 17.2 | 0 |
| Indoor Lighting | 1.8 | 1.3 | 0.5 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **11.3** | **9.8** | **1.5** | **46.2** | **17.2** | **29** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **11.3** | **9.8** | **1.5** | **46.2** | **17.2** | **29** |
| Receptacle | 3.8 | 3.8 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **15.1** | **13.6** | **1.5** | **46.2** | **17.2** | **29** |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 9 of 18)**

**C8. ENERGY USE INTENSITY (EUI)**

| | Standard Design (kBtu/ft² / yr) | Proposed Design (kBtu/ft² / yr) | Margin (kBtu/ft² / yr) | Margin Percentage |
|---|---|---|---|---|
| GROSS EUI[1] | 67.86 | 44.17 | 23.69 | 34.91 |
| NET EUI[1] | 67.86 | 44.17 | 23.69 | 34.91 |

*[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

**D1. EXCEPTIONAL CONDITIONS**

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| North-Facing[1] | 378 | 32 | 8.47 |
| East-Facing[2] | 440 | 0 | 0 |
| South-Facing[3] | 414 | 64 | 15.46 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 10 of 18)**

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Opaque Surfaces & Orientation | Total Gross Surface Area (ft²) | Total Fenestration Area (ft²) | Window to Wall Ratio (%) |
| West-Facing[4] | 440 | 0 | 0 |
| **Total** | **1672** | **96** | **5.74** |
| Roof | 1440 | 0 | 0 |

*Notes*
*[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
*[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
*[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
*[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

**G4. NONRESIDENTIAL AIR BARRIER**

| 01 | 02 |
|---|---|
| Building Story Name | Air Barrier |
| BuildingStory 1 | Air barrier - not verified |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 11 of 18)**

**G5. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface Name | Construction Type | Area (ft²) | Framing Type | Cavity R-Value | Continuous R-Value | | Units | Value | Description of Assembly Layers | Status[1] |
| | | | | | Interior | Exterior | | | | |
| SCI PLYWD FLOOR | Exterior Floor | 1,440 | Metal | 19 | N/A | N/A | U-factor | 0.0544 | Vented Crawl Space<br>SCI - STL JOIST FLOOR R-19 >16 OC<br>Plywood - 1 in.<br>Linoleum/cork tile - 1/4 in. | N |
| 2x6 T111 WALL | Exterior Wall | 1,672 | Wood | 19 | N/A | N/A | U-factor | 0.0619 | Wood siding - 1/2 in.<br>Vapor seal - plastic film - 1/16 in.<br>SCI - 2x6 WD STUD WALL R-19 16 OC<br>Gypsum Board - 1/2 in.<br>Acoustic Tile - 1/2 in. | N |
| SCI MTL ROOF | Roof | 1,440 | Metal | 30 | N/A | N/A | U-factor | 0.0554 | Metal Standing Seam - 1/16 in.<br>Building Paper - 1/16 in.<br>Plywood - 3/4 in.<br>SCI - STL JOIST ROOF R-30<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Acoustic Tile - 1/2 in. | N |

*[1] Status: N - New, A - Altered, E - Existing*

**G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Assembly Name | Area (ft²) | Overall U-factor | Status[1] |
| SCI - STD HM DOOR | 42 | 1.45 | N |

*[1] Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 12 of 18)**

**G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Fenestration Assembly Name | Fenestration Type/ Product Type / Frame Type | Certification Method[1] | Assembly Method | Area (ft²) | Overall U-factor | Overall SHGC | Overall VT | Status[2] |
| NFRC #INT-A-73-00213-00011 | Vertical fenestration Operable window N/A | NFRC | Site built | 96 | 0.52 | 0.35 | 0.61 | N |

*[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
*[2] Status: N - New, A - Altered, E - Existing*

**H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| Equipment Name | Equipment Type | Qty | Total Heating Output (kBtu/h) | Supp Heat Output (kBtu/h) | Efficiency Unit | Efficiency | Total Cooling Output (kBtu/h) | Efficiency Unit | Efficiency | Economizer Type (if present) | Status[1] |
| AirSystem 101 | Single Package VHP Air System | 1 | 52 | 0 | COP | 3.3 | 56 | EER | 11 | Fixed DB | N |

*[1] Status: N - New, A - Altered, E - Existing*

**H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Qty | Design OA CFM | Supply Fan | | | | Return / Relief Fan | | | | | Status[1] |
| | | | CFM | Power | Power Units | Control | Fan Type | CFM | Power | Power Units | Control | |
| AirSystem 101 | 1 | 540 | 1,650 | 0.67 | BHP | VSD | N/A | N/A | N/A | N/A | N/A | N |

*[1] Status: N - New, A - Altered, E - Existing*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 13 of 18)**

**H8. SYSTEM SPECIAL FEATURES**

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| System Name | Equipment Type | Interlocks per 140.4(n)[1] | Other Special Features and Controls |
| AirSystem 101 | Single Package VHP Air System | No | Zone(s) With CO2 Sensor Vent. Control Fixed DB |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*
*[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

**H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Zone Name | Mechanical Ventilation | | | | Conditioned Area (sf) | DCV or Occupant Sensor Controls, or Both |
| | Ventilation Function | # of People | Supply OA CFM | Exhaust CFM | | |
| ThermalZone 101 | Education - Classrooms (ages 9-18) | 36 | 540 | 0 | 1440 | DCV |

**H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| System ID | System Type | Qty | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | VSD |
| | | | Heating | Cooling | Design | Min. | Min. Ratio | Power | Power Units | Cycles | |
| TerminalUnit 101 | Uncontrolled | 1 | N/A | N/A | 1,650 | N/A | 0 | N/A | N/A | N/A | ☐ |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 14 of 18)**

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| Occupancy Type[1] | Conditioned Floor Area[2] (ft²) | Installed Lighting Power (Watts) | Lighting Control Credits (Watts) | Additional (Custom) Allowance | |
| | | | | Area Category Footnotes (Watts) | Area Category Footnotes (Watts) |
| Classroom, Lecture, or Training Vocational | 1440 | 612 | 0 | 0 | 0 |
| **Building Totals:** | **1440** | **612** | **0** | **0** | **0** |

*[1]See Table 140.6-C*
*[2]See NRCC-LTI--E for unconditioned spaces*
*[3]Lighting information for existing spaces modeled is not included in this table*

**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

**Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)**

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Installed Watts (Conditioned) | | | |
| | | Watts per luminaire | How is Wattage determined | Total Number of Luminaires | Installed Watts |
| SCI - 2x4 LED | --- | 51 | According to | 12 | 612 |

*[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 15 of 18)**

**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

**Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 3 | 153 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | SCI - 2x4 LED | 51 | 9 | 459 | 0 |
| Lighting Control Credits (Conditioned) Total (Watts) | | | | | | | | 0 |

**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL**

See NRCC-LTI-E for mandatory controls

**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

**Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Envelope | NRCI-ENV-E - Envelope (for all buildings) |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-E - For all buildings with Mechanical Systems |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-E - Indoor Lighting (for all buildings) |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 16 of 18)**

**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

**Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).**

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls. |
| Indoor Lighting | NRCA-LTI-03-A - Automatic Daylight Controls. |
| Mechanical | NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap |
| Mechanical | NRCA-MCH-03-A - Constant Volume Single Zone HVAC |
| Mechanical | NRCA-MCH-05-A - Air Economizer Controls |
| Mechanical | NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-12-A FDD for Packaged Direct Expansion Units |
| Mechanical | NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance |
| Mechanical | NRCA-MCH-19-A Occupancy Sensor Controls |

**N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

**Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online**

| Building Component | Form/Title |
|---|---|
| Mechanical | NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 17 of 18)**

**Documentation Author's Declaration Statement**

| **1. I certify that this Certificate of Compliance documentation is accurate and complete.** | |
|---|---|
| Documentation Author Name: SILVER CREEK | Documentation Author Signature: |
| Company: SILVER CREEK | Signature Date: |
| Address: | CEA/HERS Certification Identification (if applicable): |
| City/State/Zip: , | Phone: 951-943-5393 |

**Responsible Person's Declaration statement**

**I certify the following under penalty of perjury, under the laws of the State of California:**

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Envelope |
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Lighting |



**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**Nonresidential Performance Compliance Method** — **(Page 18 of 18)**

| | | |
|---|---|---|
| Responsible Designer Name: JOHN STARLIN | Responsible Designer Signature: | |
| Company: SILVER CREEK | | |
| Address: 2830 BARRETT AVE | Date Signed: | |
| City/State/Zip: PERRIS , CA 92571 | License #: 2475 | |
| Phone: 951-943-5393 | Title: Engineer | Scope: Mechanical |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
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PROJECT NAME:

SHEET TITLE:

# PRF FORMS 36x40 - ZONE 16 WORST CASE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.59

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-CXR-E |
|---|---|
| Project Name: SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 1 of 6) |
| Project Address: | Date Prepared: 2023-01-31T18:53:26-05:00 |

*This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Perris | 04 | Building Size (ft²) | 960 |
| 02 | Occupancy Type | Nonresidential | 05 | Nonresidential Conditioned Floor Area (ft²) | ≤ 10,000 ft² |
| 03 | Project Type | Newly constructed | 06 | HVAC System Type | Unitary or packaged equipment each serving one zone |
| | | | 07 | Climate Zone | 10 |

**B. PROJECT SCOPE**

*Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.*

**Commissioning Requirements per 120.8**

| | | | |
|---|---|---|---|
| 01 | Table F: Design Review Kickoff | 120.8(d)1 and 120.8(d)2 | The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design. |
| 02 | Table G: Owner's Project Requirements (OPR) | 120.8(b) | This requirement does not apply. |
| 03 | Table H: Basis of Design (BOD) | 120.8(c) | This requirement does not apply. |
| 04 | Table I: Design Review | 120.8(d) and 120.8(e) | The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design. |
| 05 | Table J: Commissioning Plan | 120.8(f) | This requirement does not apply. |
| 06 | Table K: Functional Performance Testing | 120.8(g) | This requirement does not apply. |
| 07 | Table L: Documentation and Training | 120.8(h) | This requirement does not apply. |
| 08 | Table M: Commissioning Report | 120.8(i) | This requirement does not apply. |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 2 of 6)
Project Address: Date Prepared: 2023-01-31T18:53:26-05:00

**C. COMPLIANCE RESULTS**

*Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Design Kickoff Review | Owner's Project Requirements | Basis of Design | Design Review | Commissioning Plan | Functional Performance Testing | Documentation and Training | Commissioning Report | Compliance Results |
| Table F | Table G | Table H | Table I | *Table J* | Table K | Table L | Table M | |
| Yes | | | Yes | | | | | COMPLIES |
| 10 | Design Reviewer(s) for the project include: | | John Starlin | | | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 3 of 6)
Project Address: Date Prepared: 2023-01-31T18:53:26-05:00

**F. DESIGN REVIEW KICKOFF MEETING**

*This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.*

**Design Review Kickoff Meeting Details**

| | | | | |
|---|---|---|---|---|
| 01 | Date of Design Review Kickoff Meeting | | | 2022-12-05 |
| 02 | Meeting Attendees: (one person may play multiple roles) | | | |
| ☒ | Owner/Facility Manager: | Ryan McIntosh | ☐ Design Reviewer(s) | |
| ☐ | Project Manager: | | ☒ Design Architect/ Engineer(s): | John Starlin |
| ☐ | Contractor: | | ☐ Certified Acceptance Test Tech(s): | |
| ☐ | Commissioning Provider: | | ☒ Energy/ T24 Part 6 Consultant: | John Starlin |

**Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1**

| | | Do the Design Reviewer(s) meet these qualifications? | |
|---|---|---|---|
| | The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code. | Yes | No |
| 03 | In addition, for buildings with < 10,000 ft², the design reviewer(s) may be the engineer or architect of record. The design reviewer(s) may also be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect or contractor. | ◉ | ○ |
| 04 | The design reviewer(s) for this project will be: | John Starlin | |

**Preliminary Construction Schedule**

| | | Start Date | Completion Date |
|---|---|---|---|
| 05 | Schematic Design | 2022-12-05 | 2022-12-05 |
| 06 | Design Development | 2022-12-05 | 2022-12-05 |
| 07 | Construction Documents | 2022-12-05 | 2023-02-24 |
| 08 | Construction | 2024-01-01 | 2024-01-01 |
| 09 | Building Turnover | 2024-01-01 | 2024-01-01 |

**Project Goals Related to Energy Efficiency**

| | | |
|---|---|---|
| 10 | Operational Costs | Code Minimum performance |
| 11 | Desired Building Lifespan | 30 - 50 years. |
| 12 | Equipment Lifecycle | Industry standard. |
| 13 | Project Energy Efficiency Goals | Code Minimum performance |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 4 of 6)
Project Address: Date Prepared: 2023-01-31T18:53:26-05:00

**F. DESIGN REVIEW KICKOFF MEETING**

| | | |
|---|---|---|
| 14 | Envelope Goals | Code minimum performance. |
| 15 | HVAC System Goals | Code minimum performance. |
| 16 | Indoor Lighting System Goals | Code minimum performance. |
| 17 | Outdoor Lighting System Goals | Code minimum performance. |
| 18 | Water Heating System Goals | Code minimum performance. |
| 19 | Equipment and System Specifications | Industry standard equipment. |
| 20 | Operations and Maintenance | No specific requirements. |

**G. OWNER'S PROJECT REQUIREMENTS (OPR)**

*This section does not apply to this project.*

**H. BASIS OF DESIGN (BOD)**

*This section does not apply to this project.*

**I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST**

*This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table I. during the Design Review Kickoff.*

| | | YES | NO |
|---|---|---|---|
| 01 | Attaching Completed Design Review Documentation? | ○ | ◉ |

**Design Review Checklist**

| | | |
|---|---|---|
| 02 | Envelope Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 03 | HVAC System Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 04 | HVAC Controls Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 05 | Indoor Lighting System Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 06 | Indoor Lighting Controls Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

CERTIFICATE OF COMPLIANCE, NONRESIDENTIAL BUILDING COMMISSIONING

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 5 of 6)
Project Address: Date Prepared: 2023-01-31T18:53:26-05:00

**I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST**

| | | |
|---|---|---|
| 07 | Outdoor Lighting System and Controls Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 08 | Water Heating System Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 09 | Other Systems and Features | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |

**J. COMMISSIONING PLAN**

*This section does not apply to this project.*

**K. FUNCTIONAL PERFORMANCE TESTING**

*This section does not apply to this project.*

**L. DOCUMENTATION AND TRAINING**

*This section does not apply to this project.*

**M. COMMISSIONING REPORT**

*This section does not apply to this project.*

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*There are no forms required for this project.*

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 6 of 6)
Project Address: Date Prepared: 2023-01-31T18:53:26-05:00

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible [under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance [responsible designer]
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| Project Name: SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 1 of 4) |
| Project Address: | Date Prepared: 2023-01-31T18:53:58-05:00 |

*This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Perris | 02 | Climate Zone | 10 |
| | | | 03 | Occupancy Types Within Project: | Classroom |

**B. PROJECT SCOPE**

*This table includes electrical systems that are within the scope of the permit application.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Electrical Service Designation/ Description | Scope of Work[1] | Rating[2] (kVA) | Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3] | System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b) | Demand Response Controls | Provides power to dwelling units/common living areas only in multifamily occupancy |
| Site feeder | Add/Alt to feeders and branch circuits only | --- | ☐ | ☐ | Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.5/ 160.5, and mechanical, Indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required. | ☐ |

*[1]FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
*[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
*[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 2 of 4)
Project Address: Date Prepared: 2023-01-31T18:53:58-05:00

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.*

| 01 | | 02 | | 03 | | 04 | 05 | 06 |
|---|---|---|---|---|---|---|---|---|
| Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F) | AND | Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G) | AND | Voltage Drop 130.5(c)/ 160.6(c) (See Table H) | AND | Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I) | Electric Ready 160.9 (See Table J) | **Compliance Results** |
| | AND | | AND | Yes | AND | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**H. VOLTAGE DROP**

*This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.*

| 01 | 02 | | | 03 | 04 | 05 | |
|---|---|---|---|---|---|---|---|
| Electrical Service Designation/Description | Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method | | | Location of Voltage Drop Calculations[1] | Sheet Number for Voltage Drop Calculations in Construction Documents | Field Inspector | |
| | | | | | | Pass | Fail |
| Site feeder | ☒ | Voltage drop less than 5% | ☐ | Contractor Responsible | | ☐ | ☐ |
| | | Permitted by CA Elec Code (Exception to 130.5(c))* | | | | | |

** NOTES: If "Permitted by CA Elec Code " * is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

*[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 3 of 4)
Project Address: Date Prepared: 2023-01-31T18:53:58-05:00

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-ELC-E - Must be submitted for all buildings |

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM Report Page: (Page 4 of 4)
Project Address: Date Prepared: 2023-01-31T18:53:58-05:00

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.6A

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. | | | |
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 1 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

| A. GENERAL INFORMATION | | | | |
|---|---|---|---|---|
| 01 | Project Location (city) | Perris | 04 Total Illuminated Hardscape Area (ft²) | 60 |
| 02 | Climate Zone | 10 | | |
| 03 | Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): | | | |
| ☐ LZ-0: Very Low - Undeveloped Parkland | ☐ LZ-2: Moderate - Urban Clusters | ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval | | |
| ☐ LZ-1: Low - Rural Areas | ☒ LZ-3: Moderately High - Urban Areas | | | |
| 05 | Occupancy Types within Project | | | |
| • Classroom | | | | |

**B. PROJECT SCOPE**

*This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.*

**My Project Consists of:**

| 01 | 02 | |
|---|---|---|
| ☒ New Lighting System | Must Comply with Allowances from 140.7 / 170.2(e)6 | |
| ☐ Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No | |
| 03 | 04 | 05 |
| % of Existing Luminaires Being Altered[1] | Sum Total of Luminaires Being Added or Altered | Calculation Method |
| ☐ < 10% ☐ >= 10% and < 50% ☐ >= 50% | | |

***Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.***

*[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 2 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.*

| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | 09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I) | + | Per Application 140.7(d)2 / 170.2(e)6 (See Table J) | + | Sales Frontage 140.7(d)2 (See Table K) | + | Ornamental 140.7(d)2 / 170.2(e)6 (See Table L) | + | Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M) | OR | Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N) | = | **Total Allowed** (Watts) | ≥ | **Total Actual** (Watts) | **07 must be >= 08** |
| 258.06 | + | 19 | + | --- | + | --- | + | --- | OR | --- | = | 277.06 | ≥ | 30 | COMPLIES |
| | | | | | | | | | | | | **Shielding Compliance (See Table G for Details)** | | | N/A |
| | | | | | | | | | | | | **Controls Compliance (See Table H for Details)** | | | COMPLIES |

(Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv — columns 01–06; Compliance Results — columns 07–09)

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

Selections made in Certificates of Installation Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

{NRCI-LTO-01-E Explanation} 1



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 3 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

*For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

**Designed Wattage:**

| 01 | 02 | | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | | Watts per luminaire[1, 2] | How is Wattage determined | Total Number Luminaires[2] | Luminaire Status[3] | Excluded per 140.7(a) / 170.2(e)6A | Design Watts | Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4] | Field Inspector Pass | Fail |
| F-1 | 0 Watt LED Wallpack | ☐ Linear | 30 | Mfr. Spec | 1 | New | ☐ | 30 | NA: < 6200 lumens | ☐ | ☐ |
| | | | | | | | **Total Design Watts:** | 30 | | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
*EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)*

*[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
*[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
*[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
*[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

**G. SHIELDING REQUIREMENTS (BUG)**

*This section does not apply to this project.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 4 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**H. OUTDOOR LIGHTING CONTROLS**

*This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.*
*Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit*

**Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings**

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Area Description | Shut-Off 130.2(c)1 / 160.5(c) | Auto-Schedule 130.2(c)2 / 160.5(c) | Motion Sensor 130.2(c)3 / 160.5(c) | Field Inspector Pass | Fail |
| Entry: "F-1" | Photocontrol | Provided | NA: Facade, etc. >=24 ft | ☐ | ☐ |

*[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
*[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
*[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 5 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**

*This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

| 01 | | | | |
|---|---|---|---|---|
| ☒ General Hardscape Allowance Table I (below) | "Use it or lose it" Allowance (select all that apply) (select all that apply): ☒ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☐ Per Specific Area Table M |

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|
| Area Description | Area Wattage Allowance (AWA): Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Linear Wattage Allowance (LWA): Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | Total General AWA + LWA (Watts) |
| Entry | 60 | 0.021 | 1.26 | 34 | 0.2 | 6.8 | 8.06 |
| | | | | | | **Initial Wattage Allowance for Entire Site (Watts):** | 250 |
| | | | | | | **Instances of Initial Wattage Allowance (LZ 0 only)[1]** | |
| | | | | | | **Total General Hardscape Allowance (Watts):** | 258.06 |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 6 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**J. LIGHTING ALLOWANCE: PER APPLICATION**

*This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Application per Table 140.7-B[1] | CALCULATED ALLOWANCE (Watts): # of Locations | Allowance per Location[2] | Extra Allowance (Watts) | DESIGN WATTS: Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (Watts) |
| Entry Door | Building Entrance/Exit | 1 | 19 | 19 | F-1 | 30 | 1 | 30 | 19 |
| | | | | | | | Total Design Watts for this Area: | 30 | |
| | | | | | | | **Total Allowance (Watts) All Areas:** | | 19 |

*[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
*[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
*[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

*This section does not apply to this project.*

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

*This section does not apply to this project.*

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**

*This section does not apply to this project.*

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**

*This section does not apply to this project.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 7 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-LTO-E - Must be submitted for all buildings |

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | Entry: "F-1" |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 8 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-01-31T18:54:22-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-16-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-16-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |



# CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING

STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations. | | | |
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 1 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-02T16:17:35-05:00 |

| A. GENERAL INFORMATION | | | | |
|---|---|---|---|---|
| 01 | Project Location (city) | Perris | 02 Climate Zone | 10 |
| 03 | Occupancy Types Within Project (select all that apply): | | | |
| • Classroom sinks and restroom lavatories | | | | |

**B. PROJECT SCOPE**

*This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.*

| 01 | 02 | 03 | | |
|---|---|---|---|---|
| My project consists of (check all that apply): | System Type[1,2] | System Components | | |
| ☒ New system (DHW system being installed for the first time in newly constructed building) | Individual System (serving nonresidential spaces) | ☒ Equipment | ☒ Distribution | ☒ Controls |
| ☐ System Alteration (equipment, distribution or controls) | | ☐ Equipment | ☐ Distribution | ☐ Controls |

*[1] FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
*[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
*[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

**C. COMPLIANCE RESULTS**

*Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.*

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Domestic Hot Water Equipment Table F | Distribution Systems Table G | Controls Table H | **Compliance Results** |
| Yes | Yes | Yes | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 2 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-02T16:17:35-05:00 |

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**F. DOMESTIC HOT WATER EQUIPMENT**

*This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.*

**Equipment Schedule: Water Heating Efficiency and Standby Loss**

| 03 | | 04 | | 05 | | | 06 |
|---|---|---|---|---|---|---|---|
| System Name | WH-1 | Exception to 140.5(c)/ 170.2(d)3 | Exceptions Do Not Apply | ☐ | Gas Service Water Heating System >= 1MMBtu/h[1] | Capacity-weighted Average Efficiency % | |

| 07 | 08 | 09 | 10 | | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Equipment Type | Volume (gal) | Rated Input Capacity (Btu/h) | Max GPM/ First Hour Rating (FHR) | Rated Efficiency | Minimum Efficiency Required | Efficiency Unit | Designed Standby Loss | Maximum Standby Loss |
| WH-1 | Consumer Rated Electric Instantaneous ( <=12kW) | <=2 | 10,264 | 0 <= GPM <1.7 | 0.91 | 0.91 | UEF | | |

*[1] FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

**Water Heating Equipment All Occupancies**

| | Yes | No | Not Applicable | Requirement |
|---|---|---|---|---|
| 18 | ☐ | ☐ | ☒ | Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3 |
| 19 | ☐ | ☐ | ☒ | New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5 |
| 20 | ☐ | ☐ | ☒ | Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6 |
| 21 | ☐ | ☐ | ☒ | School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater. |



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 3 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-02T16:17:35-05:00 |

**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**

*This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).*

**Mandatory Pipe Insulation All Occupancies**

| | | |
|---|---|---|
| 13 | ☐ | For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation. |
| 14 | ☒ | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated |
| 15 | ☒ | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve. |

**TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS**

| Fluid Temperature Range ( °F) | Conductivity Range (Btu-in per hour per ft² per °F) | Insulation Mean Rating Temp ( °F) | Nominal Pipe Diameter (in) – Minimum Insulation Required: < 1 | 1 to < 1.5 | 1.5 to < 4 | 1.5 to < 4 Multifamily & Hotel/Motel |
|---|---|---|---|---|---|---|
| 105-140 | 0.22 - 0.28 | 100 | 1.0 in or R-7.7 | 1.5 in or R-12.5 | 1.5 in or R-11 | 2.0 in or R-16 |



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 4 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-02T16:17:35-05:00 |

**H. DOMESTIC HOT WATER CONTROLS**

*This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).*

| | Yes | No | Not Applicable | Requirement |
|---|---|---|---|---|
| 01 | ☒ | ☐ | ☐ | Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a). |
| 02 | ☐ | ☐ | ☒ | Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0. |
| 03 | ☐ | ☐ | ☒ | Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility. |
| 04 | ☐ | ☐ | ☒ | For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions. |
| 05 | ☐ | ☐ | ☒ | For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d). |
| 06 | ☐ | ☐ | ☒ | Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h. |
| 07 | ☐ | ☐ | ☒ | Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume. |
| 08 | ☐ | ☐ | ☒ | Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited. |

**I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-PLB-E - Must be submitted for all buildings |



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 5 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-02T16:17:35-05:00 |

**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*There are no forms required for this project.*



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | SILVER CREEK PC - TYPICAL CLASSROOM | **Report Page:** | **(Page 6 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-02T16:17:35-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-16-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-16-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |



# CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL




SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

# A-0.6B

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-PV | Report Page: (Page 1 of 5) |
| Project Address: | Date Prepared: 2023-02-17T18:05:07-05:00 |

*This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | N/A | 04 | Building Occupancies | School or Classroom |
| 02 | Climate Zone | 15 | 05 | Construction Type | New construction |
| 03 | Conditioned Floor Area (ft²) | 4800 | 06 | Number of Stories | Bldg <= 3 stories |

**B. PROJECT SCOPE**

*The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.*

**Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)**

| | 01 |
|---|---|
| ☐ | Provided PV system and battery storage sized per 140.10/ 170.2 (g and h) |
| ☐ | Exception to PV and Battery: Not enough Solar Access Roof Area |
| ☐ | Exception to PV and Battery: Required PV < 4kW |
| ☐ | Exception to PV and Battery: No contiguous Solar Access Roof Area |
| ☐ | Exception to PV and Battery: Can't meet snow load |
| ☐ | Exception to PV and Battery: Multi-tenant without VNEM or Community Solar |
| ☐ | The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form. |
| ☐ | The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program. |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90125-0223-0002 Report Generated: 2023-02-17 15:05:11

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-PV | Report Page: (Page 2 of 5) |
| Project Address: | Date Prepared: 2023-02-17T18:05:07-05:00 |

**Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)**

| | 01 |
|---|---|
| ☐ | The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.<br>Compliance meets Exception 2 to solar ready requirements in 110.10(b). |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.*

| Allocated Solar Zone | | | Installed PV System | | | | Installed SWH System | | | Smart Tstat and Alternative EE Measure | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 Required Minimum Area (ft²) | <= | 02 Designated Area (ft²) | OR | 03 Required Minimum DC Power Rating (Watts) | <= | 04 Designed DC Power Rating (Watts) | OR | 05 Required Minimum Solar Savings Fraction | <= | 06 Designed/Rated Solar Savings Fraction | OR | 07 JA5 Compliant Thermostat Specified? | 08 Alternative Energy Efficiency Measure | |
| (See Table F) | | | | (See Tables G or J) | | | | (See Table H) | | | | (See Table I) | | |
| | <= | | OR | 11,810 | <= | 11,810 | OR | | <= | | OR | | | COMPLIES |
| Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c). | | | | | | | | | | | | | | |
| Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J. | | | | | | | | | | | | | | Not Applicable |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90125-0223-0002 Report Generated: 2023-02-17 15:05:11

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-PV | Report Page: (Page 3 of 5) |
| Project Address: | Date Prepared: 2023-02-17T18:05:07-05:00 |

**F. ALLOCATED SOLAR ZONE**

*This section does not apply to this project.*

**G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION**

*This section does not apply to this project.*

**H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS**

*This section does not apply to this project.*

**I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION**

*This section does not apply to this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90125-0223-0002 Report Generated: 2023-02-17 15:05:11

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-PV | Report Page: (Page 4 of 5) |
| Project Address: | Date Prepared: 2023-02-17T18:05:07-05:00 |

**J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS**

*This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.*

**Photovoltaic (PV) System**

| 01 Occupancy | 02 Conditioned Floor Area (ft²) | 03 Area of New Roof[1] (ft²) | 04 Roof Area < 70% Solar Access[2] (ft²) | 05 Plansheet or Document showing Solar Access Calculations | 06 Occupied Roof Area[3] (ft²) | 07 Solar Access Roof Area (SARA) (ft²) | 08 Min Size of PV System Required (kWdc) |
|---|---|---|---|---|---|---|---|
| School or Classroom | 4,800 | 5,700 | 0 | Sheet A-0.7 | 0 | 5,700 | 11.8 |
| | | | | | | **Total Min Size PV System Required for all Spaces (kWdc):** | 11.81 |
| | | | | | | **Total Size PV System in Design (kWdc):** | 11.81 |

[1]*FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.*
[2]*Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.*
[3]*As specified by CBC Section 503.1.4.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements. |

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90125-0223-0002 Report Generated: 2023-02-17 15:05:11

CERTIFICATE OF COMPLIANCE, SOLAR & BATTERY - PV

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: | Report Page: (Page 5 of 5) |
| Project Address: | Date Prepared: 2023-02-17T18:05:07-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building submits to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90125-0223-0002 Report Generated: 2023-02-17 15:05:11

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 1 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

*This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | N/A | 04 | Building Occupancies | School or Classroom |
| 02 | Climate Zone | 15 | 05 | Construction Type | New construction |
| 03 | Conditioned Floor Area (ft²) | 960 | 06 | Number of Stories | Bldg <= 3 stories |

**B. PROJECT SCOPE**

*The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.*

**Compliance with Solar Readiness Requirements in 110.10(b)1B**

| | 01 |
|---|---|
| ☒ | Provide Solar Ready Area no exceptions | The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F. |
| ☐ | Exception to Solar Ready Area: Installed Solar Photovoltaic System | The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G. |
| ☐ | Exception to Solar Ready Area: Installed Solar Water Heating System | The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. |
| ☐ | Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure | The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I. |
| ☐ | Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport | Plan sheet showing roof designed for vehicular traffic, parking or heliport |
| ☐ | Exception to Solar Ready Area: Roof too small | The project is new construction and has a total roof area <= 533 square feet[1] |
| ☐ | Exception to Solar Ready Area: Number of building stories | The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories. |

[1]*FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 2 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

**Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)**

| | 01 |
|---|---|
| ☐ | Provided PV system and battery storage sized per 140.10/ 170.2 (g and h) |
| ☐ | Exception to PV and Battery: Not enough Solar Access Roof Area |
| ☒ | Exception to PV and Battery: Required PV < 4kW |
| ☐ | Exception to PV and Battery: No contiguous Solar Access Roof Area |
| ☐ | Exception to PV and Battery: Can't meet snow load |
| ☐ | Exception to PV and Battery: Multi-tenant without VNEM or Community Solar |
| ☐ | The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form. |
| ☐ | The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program. |

**Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)**

| | 01 |
|---|---|
| ☐ | The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.<br>Compliance meets Exception 2 to solar ready requirements in 110.10(b). |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 3 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.*

| Allocated Solar Zone | | | Installed PV System | | | | Installed SWH System | | | Smart Tstat and Alternative EE Measure | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 Required Minimum Area (ft²) | <= | 02 Designated Area (ft²) | OR | 03 Required Minimum DC Power Rating (Watts) | <= | 04 Designed DC Power Rating (Watts) | OR | 05 Required Minimum Solar Savings Fraction | <= | 06 Designed/Rated Solar Savings Fraction | OR | 07 JA5 Compliant Thermostat Specified? | 08 Alternative Energy Efficiency Measure | |
| (See Table F) | | | | (See Tables G or J) | | | | (See Table H) | | | | (See Table I) | | |
| 171 | <= | 172 | OR | 0 | <= | 0 | OR | | <= | | OR | | | COMPLIES |
| N/A | | | | Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c). | | | | | | | | | | COMPLIES |
| Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J. | | | | | | | | | | | | | | Not Applicable |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 4 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

**F. ALLOCATED SOLAR ZONE**

*This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.*

**Required Minimum Solar Zone**

| 01 Minimum Solar Zone Area Calculation Method | 02 Total New or Added Roof Area (ft²) | 03 Total New or Added Roof Area Covered with Skylights (ft²) | 04 Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Sky)) (ft²) | 05 Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1] | 06 Potential Solar Zone Areas: Roof areas with >= 70% Solar Access: Low-Sloped Area ( <= 2:12 pitch) (ft²) | Steep-Sloped Area ( > 2:12 pitch) Oriented 90 < : 300 ° (ft²) | Total Potential Solar Zone Area (ft²) | 07 Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²) | 08 Required Minimum Solar Zone Area (ft²) |
|---|---|---|---|---|---|---|---|---|---|
| Total New or Added Roof Area | 1140 | 0 | 171 | | | | | | 171 |

**Designated Solar Zone Subareas**

| 09 Subarea Name or Tag | 10 Building Plan Reference | 11 Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch) | 12 Is Steep-Sloped Roof or Overhang between 90 and 300 degrees? | 13 Subarea Complies with Title 24, Part 9 | 14 Solar Zone Subarea Free of Obstructions per §110.10(b)3A | 15 Subarea is Required Distance from Potential Obstructions per §110.10(b)3B | 16 Is the Smallest Dimension 5 feet or greater? | 17 Min. Area Required per Subarea (ft²) | 18 Designated Area (ft²) | 19 Subarea Complies? |
|---|---|---|---|---|---|---|---|---|---|---|
| Solar Zone | Roof plans sheets A-3.xx | Low slope | | Yes | Yes | Yes | Yes | 80 | 172 | COMPLIES |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 5 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

**Interconnection Pathways**

| | |
|---|---|
| location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c). | N/A |

[2]*FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.*

**G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION**

*This section does not apply to this project.*

**H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS**

*This section does not apply to this project.*

**I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION**

*This section does not apply to this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 6 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

**J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS**

*This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.*

**Photovoltaic (PV) System**

| 01 Occupancy | 02 Conditioned Floor Area (ft²) | 03 Area of New Roof[1] (ft²) | 04 Roof Area < 70% Solar Access[2] (ft²) | 05 Plansheet or Document showing Solar Access Calculations | 06 Occupied Roof Area[3] (ft²) | 07 Solar Access Roof Area (SARA) (ft²) | 08 Min Size of PV System Required (kWdc) |
|---|---|---|---|---|---|---|---|
| School or Classroom | 960 | 1,140 | 0 | Roof plans A-3.xx | 0 | 1,140 | 1.36 |
| | | | | | | **Total Min Size PV System Required for all Spaces (kWdc):** | 0 |
| | | | | | | **Total Size PV System in Design (kWdc):** | 0 |

[1]*FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.*
[2]*Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.*
[3]*As specified by CBC Section 503.1.4.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements. |

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-SAB-E |
|---|---|
| Project Name: 40- PC-Solar Ready | Report Page: (Page 7 of 7) |
| Project Address: | Date Prepared: 2023-02-17T18:06:54-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building submits to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

CERTIFICATE OF COMPLIANCE, SOLAR & BATTERY - SOLAR READY AREAS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.6C

STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
|---|---|---|
| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 1 of 6) |
| Project Address: | | Date Prepared: 2023-02-02T16:17:35-05:00 |

*This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Perris | 02 | Climate Zone | 10 |
| 03 | Occupancy Types Within Project (select all that apply): | | | | |

● Classroom sinks and restroom lavatories

**B. PROJECT SCOPE**

*This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.( 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.*

| 01 | 02 | 03 |
|---|---|---|
| My project consists of (check all that apply): | System Type[1,2] | System Components |
| ☒ New system (DHW system being installed for the first time in newly constructed building) | Individual System (serving nonresidential spaces) | ☒ Equipment ☒ Distribution ☒ Controls |
| ☐ System Alteration (equipment, distribution or controls) | | ☐ Equipment ☐ Distribution ☐ Controls |

*[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
*[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
*[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

**C. COMPLIANCE RESULTS**

*Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.*

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Domestic Hot Water Equipment | Distribution Systems | Controls | Compliance Results |
| Table F | Table G | Table H | |
| Yes | Yes | Yes | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*



STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
|---|---|---|
| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 2 of 6) |
| Project Address: | | Date Prepared: 2023-02-02T16:17:35-05:00 |

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**F. DOMESTIC HOT WATER EQUIPMENT**

*This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 for addition and alteration scopes.*

**Equipment Schedule: Water Heating Efficiency and Standby Loss**

| 03 | 04 | | | 05 | | 06 | | |
|---|---|---|---|---|---|---|---|---|
| System Name | WH-1 | Exception to 140.5(c)/ 170.2(d)3 | Exceptions Do Not Apply | ☐ | Gas Service Water Heating System >= 1MMBtu/h[1] | Capacity-weighted Average Efficiency % | | |
| 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
| Name or Item Tag | Equipment Type | Volume (gal) | Rated Input Capacity (Btu/h) | Rated Efficiency | Minimum Efficiency Required | Efficiency Unit | Designed Standby Loss | Maximum Standby Loss |
| WH-1 | Consumer Rated Electric Instantaneous ( <=12kW) | <=2 | 10,264 | 0 <= GPM <1.7 | 0.91 | UEF | | |

*[1]FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

**Water Heating Equipment All Occupancies**

| | Yes | No | Not Applicable | Requirement |
|---|---|---|---|---|
| 18 | ☐ | ☐ | ☒ | Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3 |
| 19 | ☐ | ☐ | ☒ | New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5 |
| 20 | ☐ | ☐ | ☒ | Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6 |
| 21 | ☐ | ☐ | ☒ | School buildings < 25,000 ft[2] and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater. |



STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
|---|---|---|
| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 3 of 6) |
| Project Address: | | Date Prepared: 2023-02-02T16:17:35-05:00 |

**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**

*This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).*

**Mandatory Pipe Insulation All Occupancies**

| | | |
|---|---|---|
| 13 | ☐ | For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except:<br>• Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members<br>• Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5.<br>• Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation. |
| 14 | ☒ | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:<br>• Recirculating system piping, including supply and return piping of the water heater<br>• The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system<br>• Pipes that are externally heated |
| 15 | ☒ | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve. |

**TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS**

| Fluid Temperature Range ( °F) | Conductivity Range (Btu-in per hour per ft[2] per °F) | Insulation Mean Rating Temp ( °F) | Nominal Pipe Diameter (in) | | | |
|---|---|---|---|---|---|---|
| | | | < 1 | 1 to < 1.5 | 1.5 to < 4 | 1.5 to < 4 Multifamily & Hotel/Motel |
| | | | Minimum Insulation Required | | | |
| 105-140 | 0.22 - 0.28 | 100 | 1.0 in or R-7.7 | 1.5 in or R-12.5 | 1.5 in or R-11 | 2.0 in or R-16 |



STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

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**H. DOMESTIC HOT WATER CONTROLS**

*This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).*

| | Yes | No | Not Applicable | Requirement |
|---|---|---|---|---|
| 01 | ☒ | ☐ | ☐ | Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a). |
| 02 | ☐ | ☐ | ☒ | Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code §13.0. |
| 03 | ☐ | ☐ | ☒ | Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility. |
| 04 | ☐ | ☐ | ☒ | For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions. |
| 05 | ☐ | ☐ | ☒ | For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d). |
| 06 | ☐ | ☐ | ☒ | Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows:<br>• Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure<br>• Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h. |
| 07 | ☐ | ☐ | ☒ | Boiler combustion air fans with motor >= 10 hp shall meet one of the following<br>• The fan motor shall be driven by a variable speed drive OR<br>• The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume. |
| 08 | ☐ | ☐ | ☒ | Newly installed boilers with an input capacity (d gte/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited. |

**I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-PLB-E - Must be submitted for all buildings |



STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
|---|---|---|
| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 5 of 6) |
| Project Address: | | Date Prepared: 2023-02-02T16:17:35-05:00 |

**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*There are no forms required for this project.*



STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
|---|---|---|
| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 6 of 6) |
| Project Address: | | Date Prepared: 2023-02-02T16:17:35-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-16-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-16-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |



CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | 40- PC-12x40 -1-mod Restroom | Report Page: (Page 1 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T11:47:24-05:00 |

*This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 04 | Total Conditioned Floor Area (ft[2]) | 0 |
| 02 | Climate Zone | 10 | 05 | Total Unconditioned Floor Area (ft[2]) | 480 |
| 03 | Occupancy Types Within Project (select all that apply): | | 06 | # of Stories (Habitable Above Grade) | 1 |

● School or Classroom

**B. PROJECT SCOPE**

*This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (ft[2]) | Calculation Method | Area (ft[2]) |
| ☒ New Lighting System | N/A | 0 | Complete Building Method | 480 |
| ☐ New Lighting System - Parking Garage | N/A | 0 | N/A | 0 |
| **Total Area of Work (ft[2])** | | | 480 | |



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
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**C. COMPLIANCE RESULTS**

*If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.*

| Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e) | Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) | | | | | | Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | | 08 | | 09 |
| | Complete Building 140.6(c)1 | Area Category 140.6(c)2 / 170.2(e)4 | Area Category Additional 140.6(c)2N / 170.2(e)4Av (+) | Tailored 140.6(c)3 / 170.2(e)4B (+) | | Total Allowed (Watts) | | Total Designed (Watts) | Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) | | Total Adjusted (Watts) *Includes Adjustments | 05 must be >= 08 140.6 / 170.2(e) |
| | [See Table I] | [See Table I] | [See Table J] | [See Table K] | | | | [See Table F] | [See Table P] | | | |
| **Conditioned** | | | | | = | | > | | | = | | |
| **Unconditioned** | 288 | | | | = | 288 | ≥ | 255 | | = | 255 | COMPLIES |
| | | | | | | | | **Controls Compliance (See Table H for Details)** | | | | COMPLIES |
| | | | | | | | | **Rated Power Reduction Compliance (See Table Q for Details)** | | | | |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
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| Project Name: | 40- PC-12x40 -1-mod Restroom | Report Page: (Page 3 of 7) |
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**F. INDOOR LIGHTING FIXTURE SCHEDULE**

*This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.*

**Designed Wattage: Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How is Wattage determined | Total Number of Luminaires | Excluded per 140.6(a)3 / 170.2(e)2C | Design Watts | Field Inspector | |
| | | | | | | | | | Pass | Fail |
| F-1 | Lay-in LED Fixture | No | NA | 51 | MfL Spec | 5 | No | 255 | ☐ | ☐ |
| | | | | | **Total Designed Watts: UNCONDITIONED SPACES** | | | 255 | | |

*[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%./80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
*[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

**G. MODULAR LIGHTING SYSTEMS**

*This section does not apply to this project.*

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

*This table includes lighting controls for conditioned and unconditioned spaces.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| | | Field Inspector | |
| | | Pass | Fail |
| Mandatory Demand Response 110.12(c) | Shut-off controls 130.1(c) / 160.5(b)4C | | |
| NA < 4,000W subject to multilevel | See Area/Space Level Controls | ☐ | ☐ |



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
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**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Manual Area Controls 130.1(a) / 160.5(b)4A | Multi-Level Controls 130.1(b) / 160.5(b)4B | Shut-Off Controls 130.1(c) // 160.5(b)4C | Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D | Secondary Daylighting 130.1(d) / 160.5(b)4D | Interlocked Systems 140.6(a)1/ 170.2(e)2A | Field Inspector | |
| | | | | | | | | Pass | Fail |
| Restroom | School or Classroom | Auth. Personnel | Dimmer | Occupancy Sensor | NA; Not daylit zone | NA; Not daylit zone | No | ☐ | ☐ |
| | | | | | | | 13 | | |
| | | | | | | | Plan Sheet Showing Daylit Zones: | | |

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

*Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used..*

**Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft[2]) | Area (ft[2]) | Allowed Wattage (Watts) | Additional Allowance / Adjustment | |
| | | | | | Area Category | PAF |
| Restroom | School or Classroom | 0.6 | 480 | 288 | No | No |
| | | **TOTALS:** | 480 | 288 | See Tables J, or P for detail | |

**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

*This section does not apply to this project.*



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

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**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

*This section does not apply to this project.*

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

*This section does not apply to this project.*

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

*This section does not apply to this project.*

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS**

*This section does not apply to this project.*

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

*This section does not apply to this project.*

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

*This section does not apply to this project.*

**Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS**

*This section does not apply to this project.*

**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

*This section does not apply to this project.*



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

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**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

*This section does not apply to this project.*

**T. DWELLING UNIT LIGHTING**

*This section does not apply to this project.*

**U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-LTI-E - Must be submitted for all buildings |

**V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | Restroom |



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

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| Project Name: | 40- PC-12x40 -1-mod Restroom | Report Page: (Page 7 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T11:47:24-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |



SINGLE MODULE TOILET BUILDING OPTION - INTERIOR LIGHTING COMPLIANCE FORMS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc


PROJECT NAME:

SHEET TITLE:

# SINGLE MODULE TOILET BUILDING COMPLIANCE FORMS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.6D

STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
|---|---|---|
| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 1 of 6) |
| Project Address: | | Date Prepared: 2023-02-02T16:17:35-05:00 |

*This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Perris | 02 | Climate Zone | 10 |
| 03 | Occupancy Types Within Project (select all that apply): | | | | |

• Classroom sinks and restroom lavatories

**B. PROJECT SCOPE**

*This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.1/ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.*

| 01 | 02 | 03 | |
|---|---|---|---|
| My project consists of (check all that apply): | System Type[1,2] | System Components | |
| ☒ New system (DHW system being installed for the first time in newly constructed building) | Individual System (serving nonresidential spaces) | ☒ Equipment | ☒ Distribution ☒ Controls |
| ☐ System Alteration (equipment, distribution or controls) | | ☐ Equipment | ☐ Distribution ☐ Controls |

*[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
*[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
*[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

**C. COMPLIANCE RESULTS**

*Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.*

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Domestic Hot Water Equipment | Distribution Systems | Controls | Compliance Results |
| Table F | Table G | Table H | |
| Yes | Yes | Yes | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

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STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
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| Project Name: | SILVER CREEK PC - TYPICAL CLASSROOM | Report Page: (Page 2 of 6) |
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**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**F. DOMESTIC HOT WATER EQUIPMENT**

*This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 for addition and alteration scopes.*

**Equipment Schedule: Water Heating Efficiency and Standby Loss**

| 03 | 04 | | | 05 | | 06 | | |
|---|---|---|---|---|---|---|---|---|
| System Name | WH-1 | Exception to 140.5(c)/ 170.2(d)3 | Exceptions Do Not Apply | ☐ | Gas Service Water Heating System >= 1MMBtu/h[1] | Capacity-weighted Average Efficiency % | | |
| 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
| Name or Item Tag | Equipment Type | Volume (gal) | Rated Input Capacity (Btu/h) | Rated Efficiency | Minimum Efficiency Required | Efficiency Unit | Designed Standby Loss | Maximum Standby Loss |
| WH-1 | Consumer Rated Electric Instantaneous ( <=12kW) | <=2 | 10,264 | 0 <= GPM <1.7 | 0.91 | UEF | | |

*[1]FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

**Water Heating Equipment All Occupancies**

| Yes | No | Not Applicable | Requirement |
|---|---|---|---|
| ☐ | ☐ | ☒ | 18 Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3 |
| ☐ | ☐ | ☒ | 19 New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5 |
| ☐ | ☐ | ☒ | 20 Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6 |
| ☐ | ☐ | ☒ | 21 School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater. |

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**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**

*This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).*

**Mandatory Pipe Insulation All Occupancies**

| | | |
|---|---|---|
| 13 | ☐ | For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except:<br>• Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members<br>• Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5.<br>• Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation. |
| 14 | ☒ | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:<br>• Recirculating system piping, including supply and return piping of the water heater<br>• The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system<br>• Pipes that are externally heated |
| 15 | ☒ | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve. |

**TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS**

| Fluid Temperature Range ( °F) | Conductivity Range (Btu-in per hour per ft² per °F) | Insulation Mean Rating Temp ( °F) | Nominal Pipe Diameter (in) | | | |
|---|---|---|---|---|---|---|
| | | | < 1 | 1 to < 1.5 | 1.5 to < 4 | 1.5 to < 4 Multifamily & Hotel/Motel |
| | | | Minimum Insulation Required | | | |
| 105-140 | 0.22 - 0.28 | 100 | 1.0 in or R-7.7 | 1.5 in or R-12.5 | 1.5 in or R-11 | 2.0 in or R-16 |

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STATE OF CALIFORNIA
**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
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**H. DOMESTIC HOT WATER CONTROLS**

*This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).*

| Yes | No | Not Applicable | Requirement |
|---|---|---|---|
| ☒ | ☐ | ☐ | 01 Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a). |
| ☐ | ☐ | ☒ | 02 Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code §13.0. |
| ☐ | ☐ | ☒ | 03 Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility. |
| ☐ | ☐ | ☒ | 04 For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions. |
| ☐ | ☐ | ☒ | 05 For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d). |
| ☐ | ☐ | ☒ | 06 Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows:<br>• Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure<br>• Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h. |
| ☐ | ☐ | ☒ | 07 Boiler combustion air fans with motor >= 10 hp shall meet one of the following<br>• The fan motor shall be driven by a variable speed drive OR<br>• The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume. |
| ☐ | ☐ | ☒ | 08 Newly installed boilers with an input capacity (if gtie/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited. |

**I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-PLB-E - Must be submitted for all buildings |

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**Domestic Water Heating System** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-PLB-E |
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**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*There are no forms required for this project.*

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-16-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-16-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

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STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
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*This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.*

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 04 | Total Conditioned Floor Area (ft²) | 0 |
| 02 | Climate Zone | 10 | 05 | Total Unconditioned Floor Area (ft²) | 960 |
| 03 | Occupancy Types Within Project (select all that apply): | | 06 | # of Stories (Habitable Above Grade) | 1 |

• School or Classroom

**B. PROJECT SCOPE**

*This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (ft²) | Calculation Method | Area (ft²) |
| ☒ New Lighting System | N/A | 0 | Complete Building Method | 960 |
| ☐ New Lighting System - Parking Garage | N/A | 0 | N/A | 0 |
| **Total Area of Work (ft²)** | | | 960 | |

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**C. COMPLIANCE RESULTS**

*If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.*

| Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e) | Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) | | | | | | Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | | 08 | | 09 |
| | Complete Building 140.6(c)1 | Area Category 140.6(c)2 / 170.2(e)4 | Area Category Additional 140.6(c)2N / 170.2(e)4Av (+) | Tailored 140.6(c)3 / 170.2(e)4B (+) | Total Allowed (Watts) | | Total Designed (Watts) | Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) | = | Total Adjusted (Watts) *Includes Adjustments | | 05 must be >= 08 140.6 / 170.2(e) |
| | [See Table I] | [See Table I] | [See Table J] | [See Table K] | | | [See Table F] | [See Table P] | | | | |
| **Conditioned** | | | | | = | | | | = | | | |
| **Unconditioned** | 576 | | | | = | 576 | ≥ | 510 | = | 510 | | COMPLIES |
| | | | | | | | | Controls Compliance (See Table H for Details) | | | | COMPLIES |
| | | | | | | | | Rated Power Reduction Compliance (See Table Q for Details) | | | | |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

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**F. INDOOR LIGHTING FIXTURE SCHEDULE**

*This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.*

**Designed Wattage: Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How is Wattage determined | Total Number of Luminaires | Excluded per 140.6(a)3 / 170.2(e)2C | Design Watts | Field Inspector | |
| | | | | | | | | | Pass | Fail |
| F-1 | Lay-in LED Fixture | No | NA | 51 | MfL Spec | 10 | No | 510 | ☐ | ☐ |
| | | | | | **Total Designed Watts: UNCONDITIONED SPACES** | | | 510 | | |

*[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%./80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
*[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

**G. MODULAR LIGHTING SYSTEMS**

*This section does not apply to this project.*

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

*This table includes lighting controls for conditioned and unconditioned spaces.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| | | Field Inspector | |
| | | Pass | Fail |
| Mandatory Demand Response 110.12(c) | Shut-off controls 130.1(c) / 160.5(b)4C | | |
| NA < 4,000W subject to multilevel | See Area/Space Level Controls | ☐ | ☐ |

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**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Manual Area Controls 130.1(a) / 160.5(b)4A | Multi-Level Controls 130.1(b) / 160.5(b)4B | Shut-Off Controls 130.1(c) // 160.5(b)4C | Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D | Secondary Daylighting 130.1(d) / 160.5(b)4D | Interlocked Systems 140.6(a)1/ 170.2(e)2A | Field Inspector | |
| | | | | | | | | Pass | Fail |
| Restroom | School or Classroom | Auth. Personnel | Dimmer | Occupancy Sensor | NA; Not daylit zone | NA; Not daylit zone | No | ☐ | ☐ |
| | | | | | | | 13 | | |
| | | | | | | | Plan Sheet Showing Daylit Zones: | | |

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

*Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used..*

**Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Additional Allowance / Adjustment | |
| | | | | | Area Category | PAF |
| Restroom | School or Classroom | 0.6 | 960 | 576 | No | No |
| | | **TOTALS:** | 960 | 576 | See Tables J, or P for detail | |

**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

*This section does not apply to this project.*

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**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

*This section does not apply to this project.*

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

*This section does not apply to this project.*

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

*This section does not apply to this project.*

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS**

*This section does not apply to this project.*

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

*This section does not apply to this project.*

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

*This section does not apply to this project.*

**Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS**

*This section does not apply to this project.*

**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

*This section does not apply to this project.*

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**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

*This section does not apply to this project.*

**T. DWELLING UNIT LIGHTING**

*This section does not apply to this project.*

**U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-LTI-E - Must be submitted for all buildings |

**V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | Restroom |

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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: B8455-0223-0002 Report Generated: 2023-02-20 08:51:43

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# TWO MODULE TOILET BUILDING COMPLIANCE FORMS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

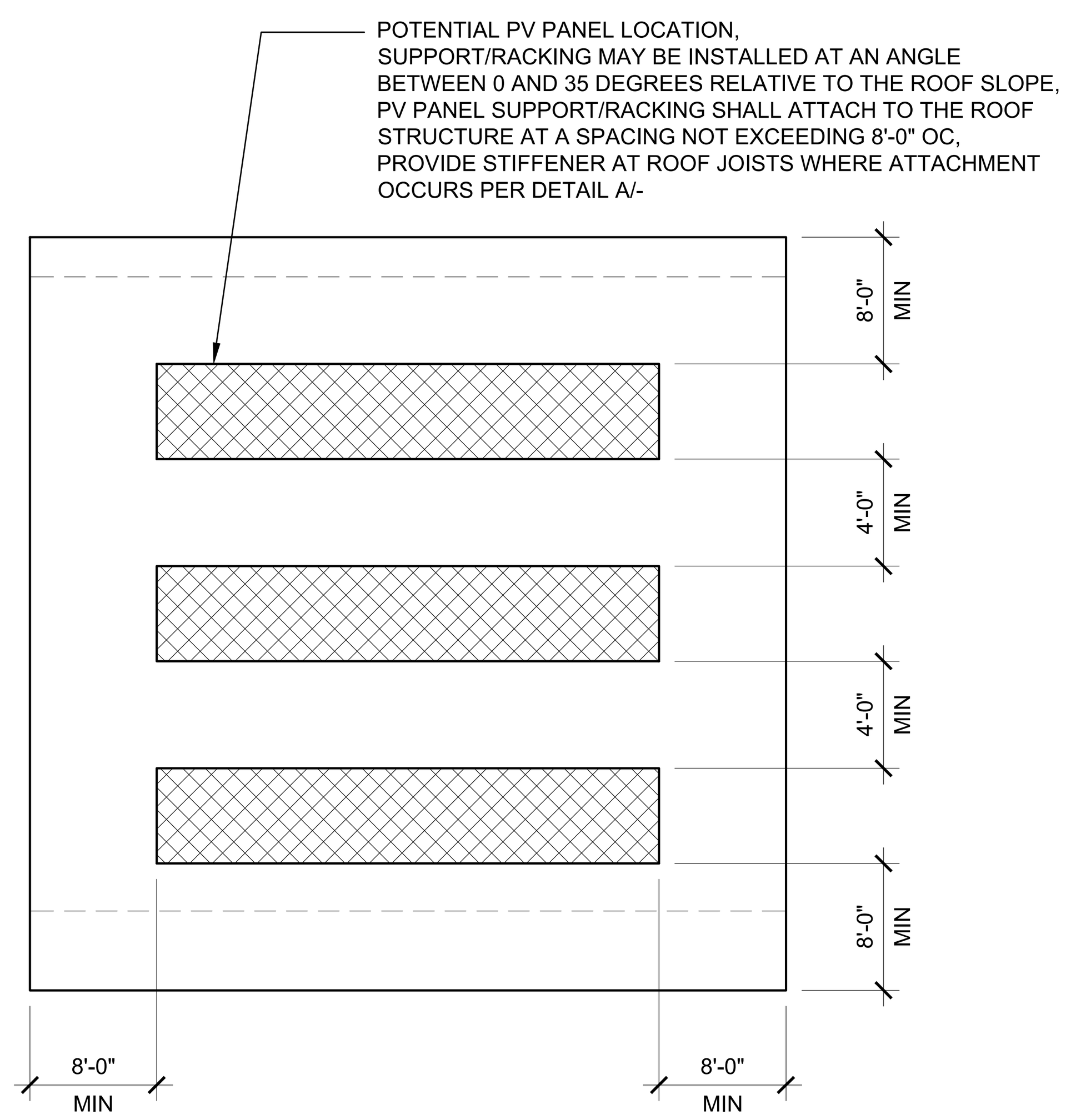
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER
A-0.6E

CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

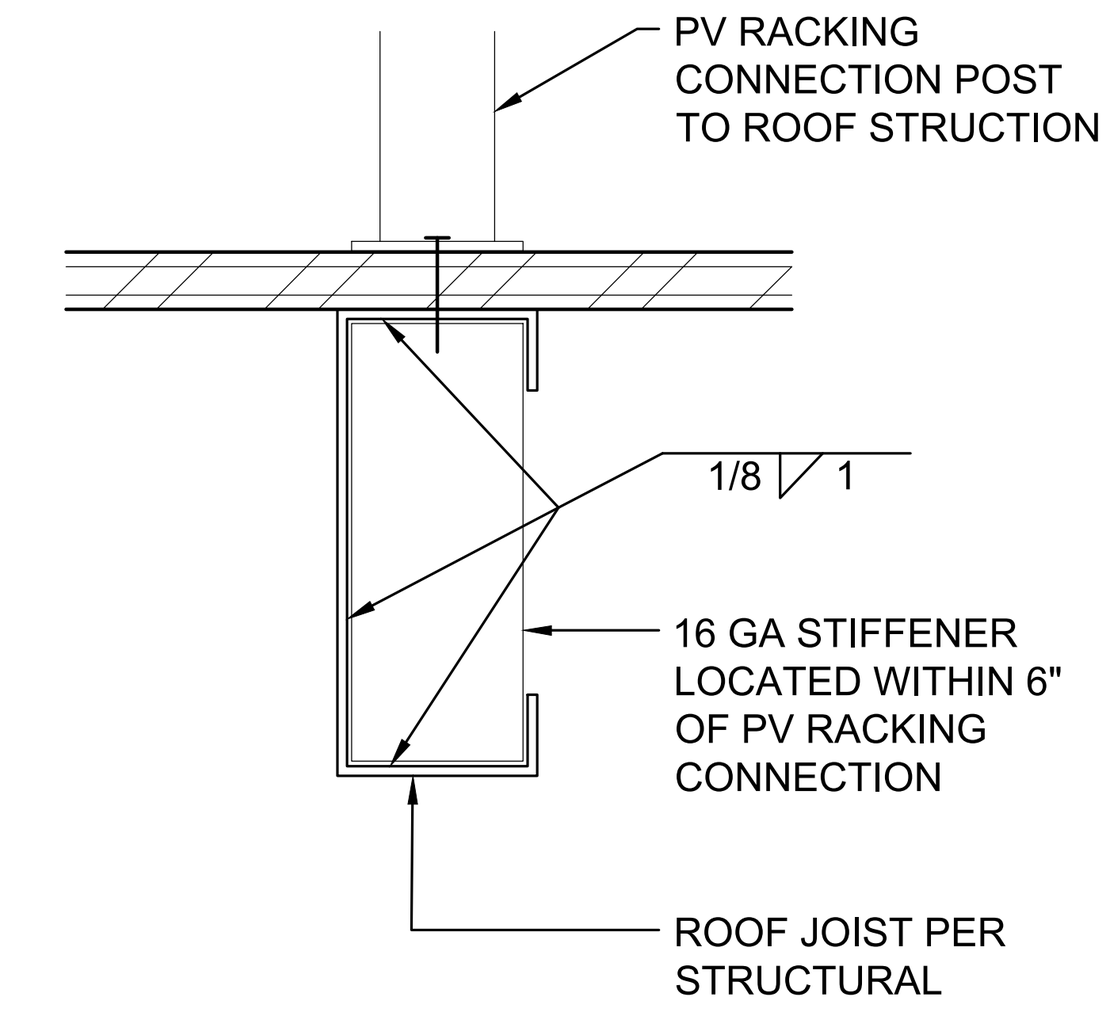
TWO MODULE TOILET BUILDING OPTION - INTERIOR LIGHTING COMPLIANCE FORMS

NOTE:
THE PC ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE MASS OF A PV SYSTEM (TOTAL ALLOWANCE IS EQUAL TO 0.6 POUNDS x THE TOTAL ROOF AREA) TO BE DESIGNED AND INSTALLED UNDER THE PROJECT SPECIFIC APPLICATION.

THE PC ROOF STRUCTURE HAS BEEN DESIGNED TO ACCOMMODATE THE POTENTIAL UPLIFT ON THE ROOF FRAMING MEMBERS WHEN THE PV SYSTEM IS INSTALLED PER THE EDGE CLEARANCE AND SPACING AS INDICATED BELOW.




PV PANEL LOCATION KEYPLAN




STIFFENER AT PV RACKING CONNECTION SCALE : 3" = 1'-0" A

**REQUIRED PV SYSTEM SIZE (kW)**

| CLIMATE ZONE | BUILDING SIZE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 24'x40' | 36'x40' | 48'x40' | 60'x40' | 72'x40' | 84'x40' | 96'x40' | 108'x40' | 120'x40' |
| | APPROXIMATE CONDITIONED FLOOR AREA | | | | | | | | |
| | 960 | 1440 | 1920 | 2400 | 2880 | 3360 | 3840 | 4320 | 4800 |
| 1 | NONE | NONE | NONE | NONE | NONE | 4.3 | 4.9 | 5.5 | 6.1 |
| 2 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 3 | NONE | NONE | NONE | NONE | NONE | 4.3 | 4.9 | 5.5 | 6.1 |
| 4 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 5 | NONE | NONE | NONE | NONE | NONE | 4.3 | 4.9 | 5.5 | 6.1 |
| 6 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 7 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 8 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 9 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 10 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 11 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 12 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 13 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 14 | NONE | NONE | NONE | NONE | 4.7 | 5.5 | 6.3 | 7.0 | 7.8 |
| 15 | NONE | NONE | 4.7 | 5.9 | 7.1 | 8.3 | 9.4 | 10.6 | 11.8 |
| 16 | NONE | NONE | NONE | NONE | NONE | 4.3 | 4.9 | 5.5 | 6.1 |
| ALL ZONES | NONE | NONE | 4.7 | 5.9 | 7.1 | 8.3 | 9.4 | 10.6 | 11.8 |

THE PRESCRIPTIVE MINIMUM REQUIRED PV SYSTEM SIZE IS INDICATED IN THE CHART ABOVE. THE ACTUAL PV SYSTEM SHALL BE INCLUDED IN THE PROJECT SPECIFIC DRAWING PACKAGE. ALL PV SYSTEM COMPONENT, CONNECTIONS AND DETAILING SHALL BE INCLUDED IN THE PROJECT SPECIFIC DRAWING PACKAGE.

WHERE THE PROJECT SPECIFIC DRAWING PACKAGE INDICATES THAT THE BUILDING IS BEING APPROVED FOR A SPECIFIC CLIMATE ZONE THE (MINIMUM) PV SYSTEM SIZE SHALL BE AS INDICATED FOR THAT CLIMATE ZONE IN THE CHART ABOVE. WHERE THE BUILDING IS INTENDED TO BE ELIGIBLE FOR RELOCATION TO ANY CLIMATE ZONE THE (MINIMUM) PV SYSTEM SIZE SHALL BE AS INDICATED IN THE "ALL ZONES" ROW.

## PV SYSTEM SIZING AND INSTALLATION REQUIREMENTS 3

### CALIFORNIA ENERGY CODE - MANDATORY MEASURES

#### INTERIOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- EACH ROOM AND AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL BE EQUIPPED WITH MANUAL ON AND OFF LIGHTING CONTROLS PER SECTION 130.1(a).
- ALL ROOMS AND AREAS 100 SF OR GREATER AND WITH MORE THAN 0.5 WATT PER SF OF LIGHTING LOAD WITH 2 OR MORE LUMINAIRES SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM. CONTROL STEPS SHALL MEET REQUIREMENTS IN TABLE 130.1-A.
- PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR IN ALL ROOMS.
- ALL GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIT ZONES AND SKYLIT DAYLIT ZONES IN ENCLOSED SPACES WITH 120 WATTS, OR MORE IN COMBINED PRIMARY/SKYLIT ZONES AND 24 SF, OR MORE OF FENESTRATION, SHALL BE CONTROLLED WITH AUTOMATIC DAYLIGHTING CONTROLS PER SECTION 130.1(d).

#### OUTDOOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- ALL OUTDOOR LIGHTING SHALL BE OPERATED WITH CONTROLS WHICH AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE PER SECTION 130.2(c).
- ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS WHICH ARE CONTROLLED BY AN AUTOMATIC SCHEDULING CONTROL PER SECTION 130.2(c).

#### SPACE CONDITIONING EQUIPMENT MANDATORY MEASURES:

- ALL SPACE CONDITIONING EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.2.
- MECHANICAL VENTILATION SHALL BE PROVIDED PER SECTION 120.1.
- ALL SPACE CONDITIONING CONTROLS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.2.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.4.

#### BUILDING ENVELOPE MANDATORY MEASURES:

- ALL FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.6.
- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION PER SECTION 110.7.
- ALL INSULATION, ROOFING PRODUCTS AND RADIANT BARRIERS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.8.
- THE WEIGHTED AVERAGE U-FACTOR OF THE ROOF ASSEMLY SHALL NOT EXCEED 0.075 PER SECTION 120.7(a).
- THE WEIGHTED AVERAGE U-FACTOR OF THE EXTERIOR WALL ASSEMBLY SHALL NOT EXCEED 0.110 PER SECTION 120.7(b).
- THE WEIGHTED AVERAGE U-FACTOR OF THE FLOOR ASSEMBLY SHALL NOT EXCEED 0.071 PER SECTION 120.7(c).

#### SOLAR READY AND ELECTRICAL DISTRIBUTION MANDATORY MEASURES:

- A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING PER SECTION 110.10(b).
- A PATHWAY SHALL BE PROVIDED FROM THE SOLAR ZONE TO AN INDICATED LOCATION SUITABLE FOR THE FUTURE INSTALLATION OF INVERTERS AND METERING EQUIPMENT PER SECTION 110.10(c).
- ELECTRICAL SERVICE METERING SHALL UTILIZE A PERMANENTLY INSTALLED METERING SYSTEM PER SECTION 130.5(a).
- SEPERATION OF ELECTRICAL CIRCUITS SHALL NOT BE REQUIRED WHERE ELECTRICAL SERVICE OR FEEDER IS RATED AT 50 KVA OR LESS PER SECTION 130.5(b).
- THE VOLTAGE DROP TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5% PER SECTION 130.5(c).

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE
-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

THIS LIST OF REQUIRED ACCEPTANCE TESTS FOR THE PROJECT IS FOUND IN THE LAST PAGES OF THE ENERGY COMPLIANCE REPORTS (T24) UNDER DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE.

## CALIFORNIA ENERGY CODE - MANDATORY MEASURES 1

### CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.
4. A MINIMUM OF 65% (BY WEIGHT) OF THE NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.
5. CONSTRUCTION WASTE MATERIALS SHALL BE COLLECTED IN CO-MINGLED CONTAINERS EXCEPT STEEL AND WOOD SHALL BE COLLECTED SEPARATELY.
6. CONSTRUCTION WASTE SHALL BE HAULED, SEPARATED, AND MEASURED BY CR+R (OR AN EQUAL WASTE MANAGEMENT COMPANY). A REPORT SHALL BE PROVIDED INDICATING THE DIVERSION RATE (BY VOLUME).

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

### IEQ PLAN

A. CONSTRUCTION PHASE:
1. FILTERS
I. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.
II. ALL FILTERS SHALL HAVE A MERV RATING OF 13 OR GREATER (2" THICK).
III. A PRESSURE GAUGE SHALL BE INSTALLED AT ALL MECHANICAL EQUIPMENT REQUIRING FILTERS WHICH MEASURES THE PRESSURE DROP ACROSS THE FILTER AND WHICH IS MARKED TO INDICATE WHEN THE FILTER REQUIRES CLEANING OR REPLACEMENT
2. PROTECTION OF MATERIALS
I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
IV. ONCE INSTALLED ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOC EMISSIONS HAVE DISSIPATED.
III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
IV. WHEN TEMPORARY MECHANICAL VENTILATION IS USED A CONSTRUCTION FILTER SHALL BE INSTALLED WITH MERV RATING OF NOT LESS THAN 13 (2" THICK). THE CONSTRUCTION FILTER SHALL BE REPLACED PRIOR TO OCCUPANCY.
V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOC EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
VII. CARPETED SURFACES SHALL BE VACUUMED PER THE CRJ/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

### LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM THESE PRODUCTS.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. SEE DETAIL A/- FOR TYPICAL FLOOR AND WALL FINISH DIAGRAM.

ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

### OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

### ACOUSTICAL CONTROL

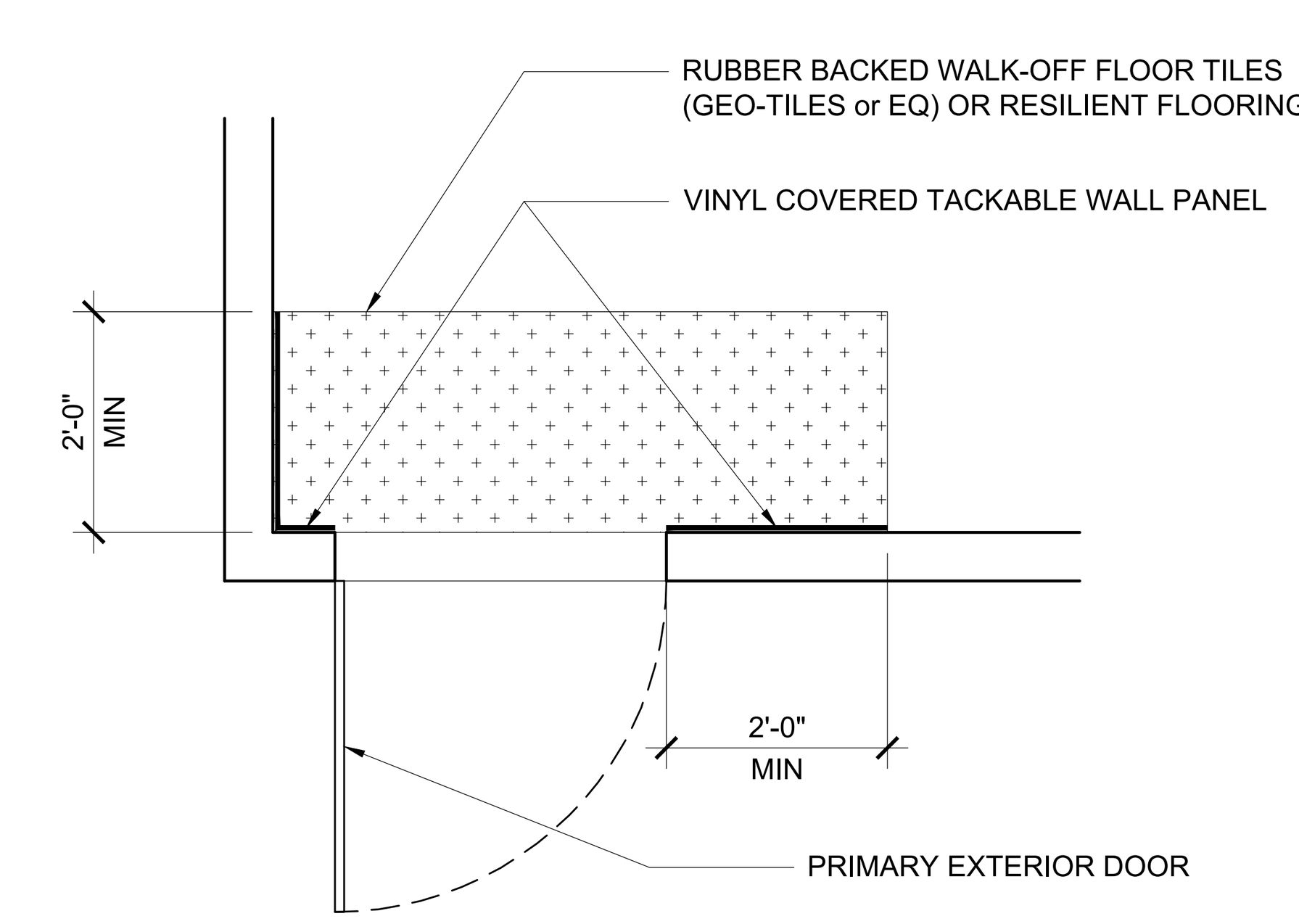
INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. ONE OF THE FOLLOWING ASSEMBLY SHALL BE USED:

☐ 2x4 (MIN) STUDS @ 24" O.C. WITH 1 LAYER OF 1/2" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., GYP BD SHALL BE FASTENED TO THE STUDS w/ 1-1/4" TYPE W SCREWS AT 12" OC, JOINTS SHALL BE STAGGERED (DESIGN #NGC 2012065)(STC-42)

☐ 2x4 (MIN) STUDS @ 16" O.C. WITH 2 LAYER OF 5/8" TYPE "X" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., BASE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/1-7/8" 6d COATED NAILS AT 6" OC, FACE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/2-3/8" 8d COATED NAILS AT 8" OC, VERTICAL JOINTS SHALL OCCUR OVER A STUD, STAGGER JOINTS EACH LAYER AND EACH SIDE (DESIGN #NGC 2364) (STC-41)

WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDINGS CONSTRUCTED PER THIS PC SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.507.4. THE ARCHITECT OF RECORD FOR THE PROJECT SITE THE PC BUILDING IS TO BE INSTALLED UPON SHALL IDENTIFY ANY ADDITIONAL NOISE TRANSMISSION MEASURES WHICH ARE REQUIRED BASED UPON THE NOISE LEVEL PRESENT AT THE PROJECT SITE. IF NECESSARY EXTERIOR WALL, ROOF AND WINDOW ASSEMBLIES MEETING THE STC AND OR OITC RATINGS SPECIFIED IN SECTIONS 5.507.4.1 + 5.507.4.1.1 SHALL BE UTILIZED.

WHEN THE PC BUILDING IS PLACED ADJACENT TO ANOTHER BUILDING, A SEPARATION (AIR GAP) OF NOT LESS THAN 6" SHALL BE PROVIDED.




A PRIMARY EXTERIOR WALL FINISH DIAGRAM

## CALGREEN SPECIFICATIONS 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:
PV SYSTEM REQUIREMENTS, ENERGY MANDATORY MEASURES & CALGREEN SPEC'S

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

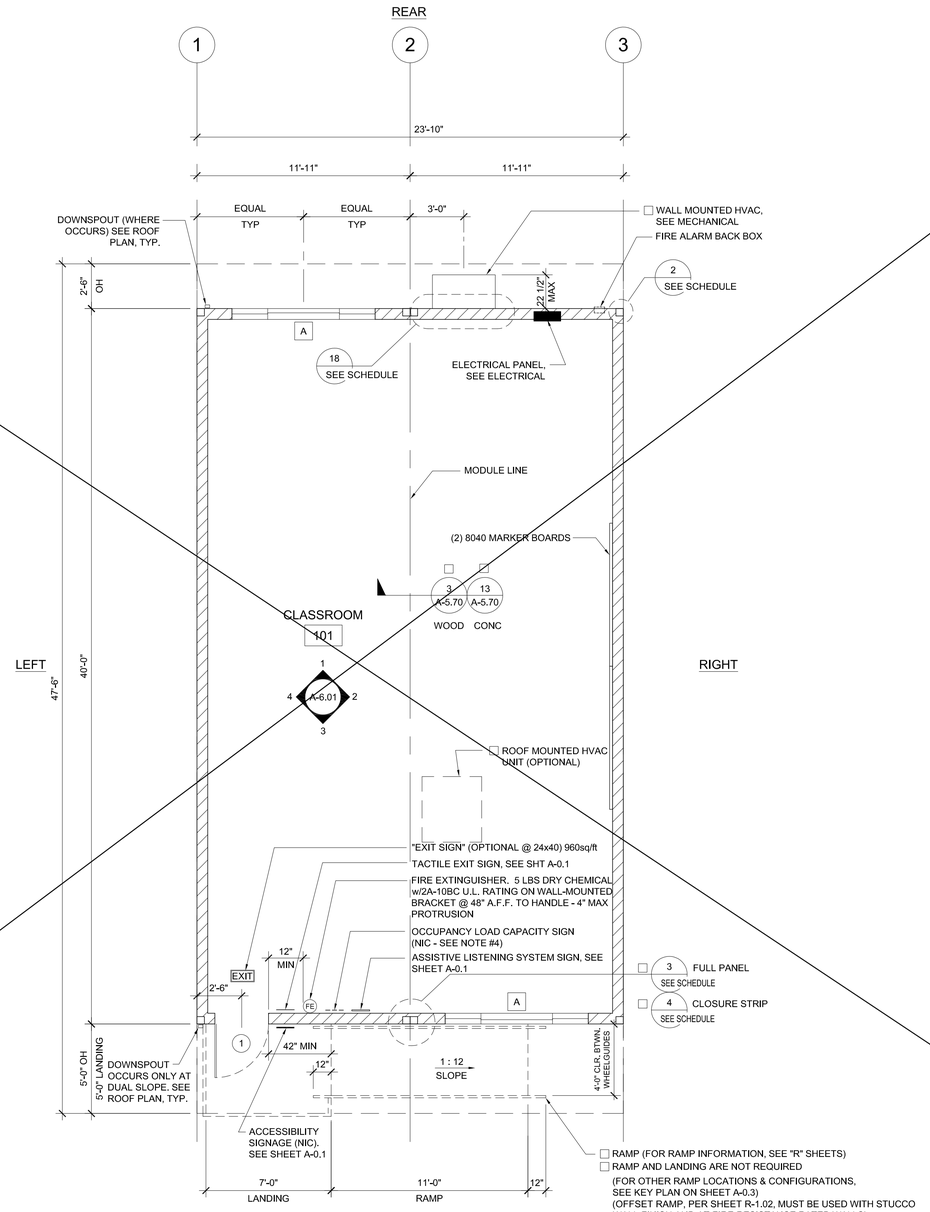
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER
A-0.7




FRONT

## NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, REQUIRED PV SYSTEM CAPACITY (kW), WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = $S_S$
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 ART. 3.30 (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
7. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION
8. INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY
11. TOILET ROOM FLOORING AND BASE SHALL BE INSTALLED PER 10/A-5.70 IN LIEU OF PROVIDING A CURB (IR 23-2)
12. DOORS SHALL PROVIDED WITH MINIMUM 4' CANOPY OR ROOF OVERHANG

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## WALL LEGEND

NOMINAL 4" WALL STUD ☐

NOMINAL 6" WALL STUD ☐

NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2

(#) DOOR PER SCHEDULE SHEET A-0.2

NOTES:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (OR 6" NOMINAL STEEL STUD) (MIN). EXCEPTION: AT UNCONDITIONED RESTROOM MODULES.

2x4 (OR 4" NOMINAL STEEL STUD) WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH AT UNCONDITIONED RESTROOM MODULES WITH WALLS OVER 9'-0" IN HEIGHT.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

## SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.5)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

FLOOR PLAN

SCALE: 1/4" = 1'-0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# FLOOR PLAN
24' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

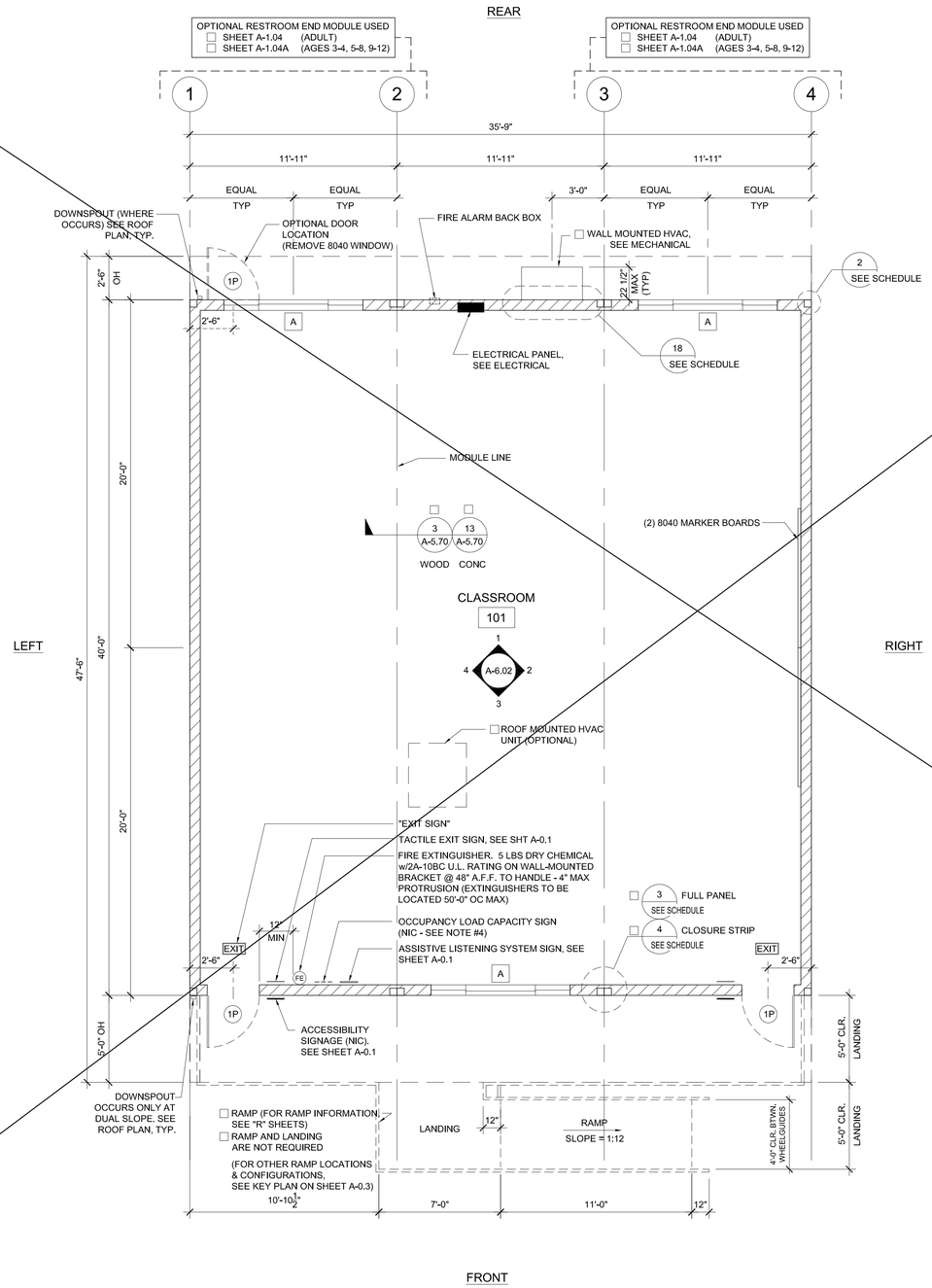
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-1.01




FRONT

## NOTES

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   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, REQUIRED PV SYSTEM CAPACITY (kW), WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = $S_S$
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9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY
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12. DOORS SHALL PROVIDED WITH MINIMUM 4' CANOPY OR ROOF OVERHANG

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
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## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
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| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## WALL LEGEND

NOMINAL 4" WALL STUD ☐

NOMINAL 6" WALL STUD ☐

NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2

(#) DOOR PER SCHEDULE SHEET A-0.2

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## SYMBOLS LEGEND

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# FLOOR PLAN
36' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

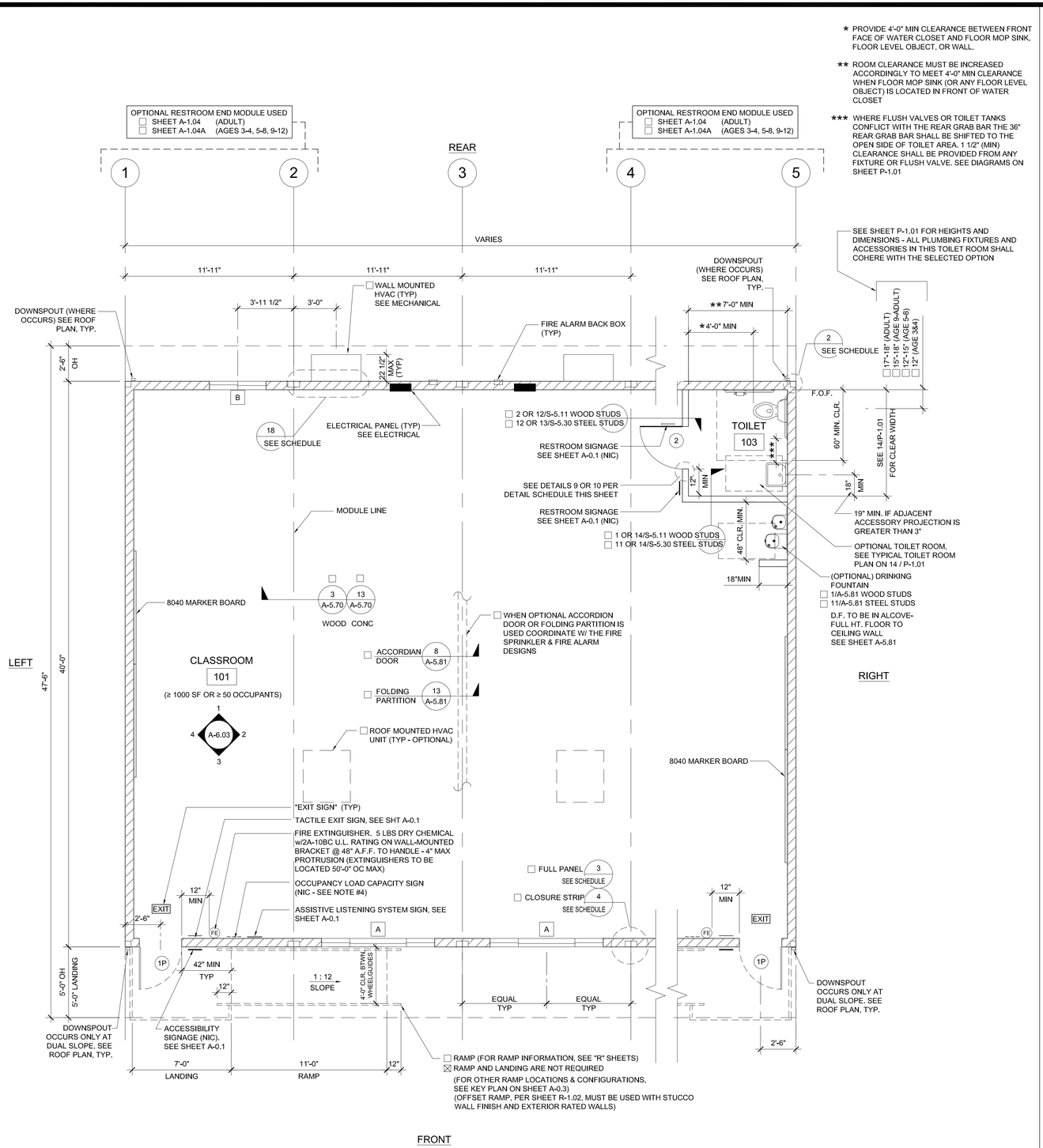
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLAND
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

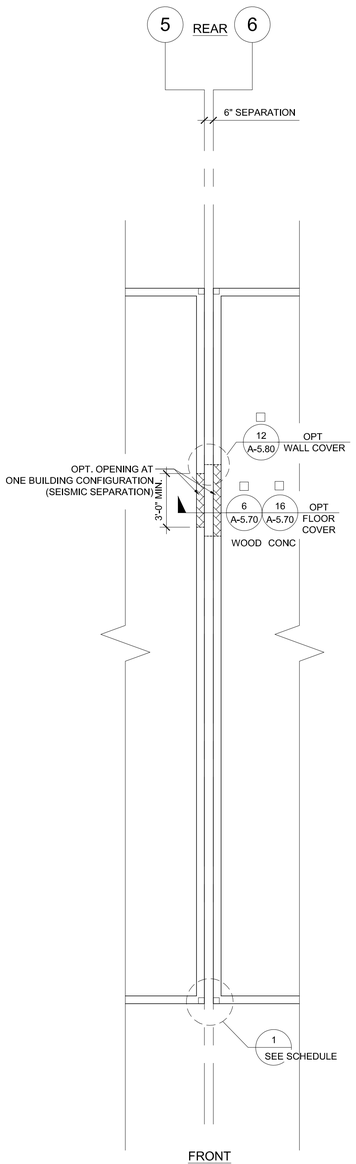
P.C. SHEET NUMBER
A-1.02




FRONT

NOTE:
- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 8' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED.

FLOOR PLAN — SCALE: 1/4" = 1'-0" — 2




FRONT

FLOOR SEPARATION PLAN OPTION — SCALE: 1/4" = 1'-0" — 1

## NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1)
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12. DOORS SHALL PROVIDED WITH MINIMUM 4' CANOPY OR ROOF OVERHANG

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## WALL LEGEND

NOMINAL 4" WALL STUD ☐
NOMINAL 6" WALL STUD ☐
NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2
# DOOR PER SCHEDULE SHEET A-0.2

NOTES:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (OR 6" NOMINAL STEEL STUD) (MIN). EXCEPTION: AT UNCONDITIONED RESTROOM MODULES.

2x4 (OR 4" NOMINAL STEEL STUD) WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH AT UNCONDITIONED RESTROOM MODULES WITH WALLS OVER 9'-0" IN HEIGHT.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

## SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.5)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# FLOOR PLAN
## 48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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APP. 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

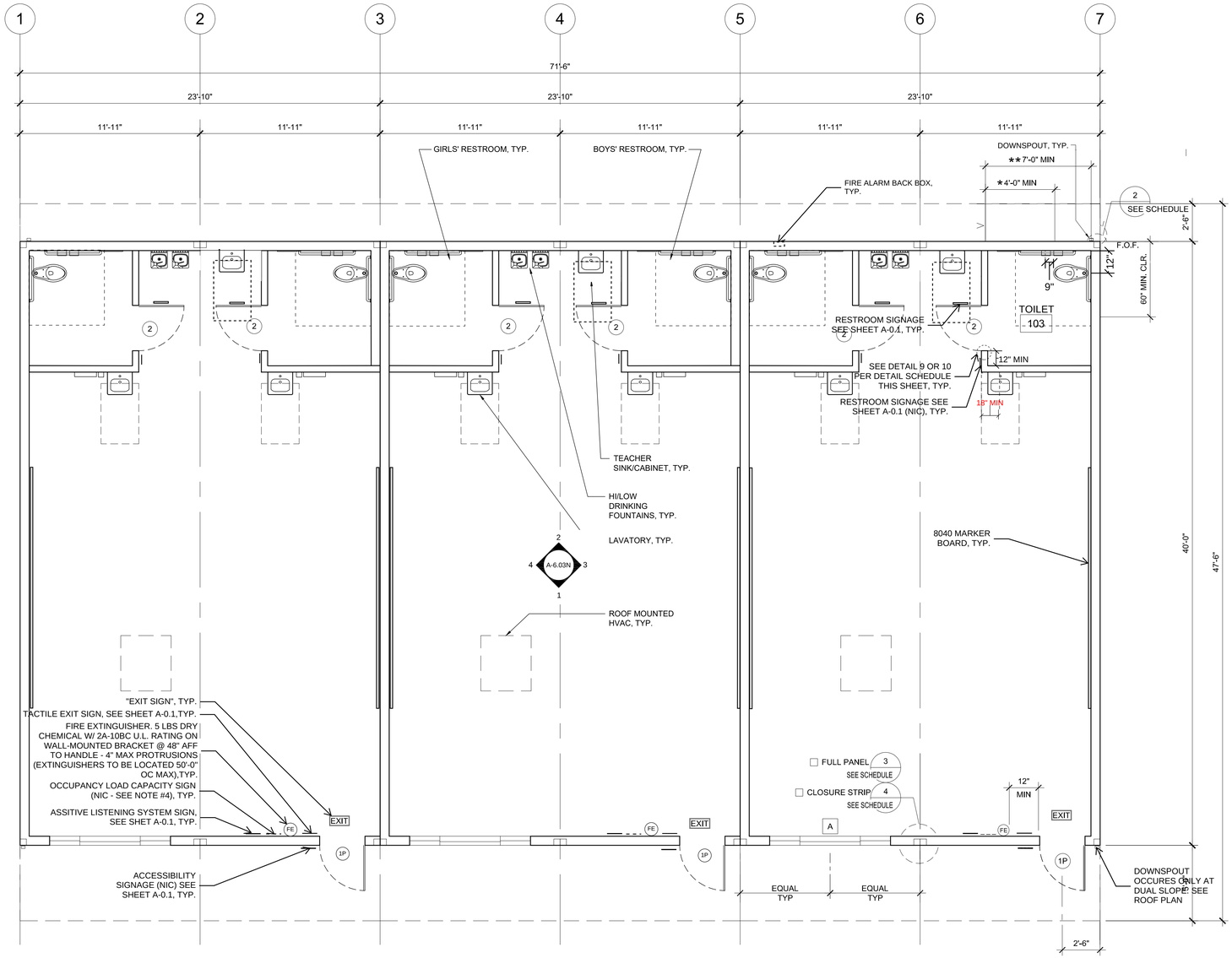
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARUN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-1.03 |




★ PROVIDE 4'-0" MIN CLEARANCE BETWEEN FRONT FACE OF WATER CLOSET AND FLOOR MOP SINK, FLOOR LEVEL OBJECT, OR WALL.

★★ ROOM CLEARANCE MUST BE INCREASED ACCORDINGLY TO MEET 4'-0" MIN CLEARANCE WHEN FLOOR MOP SINK (OR ANY FLOOR LEVEL OBJECT) IS LOCATED IN FRONT OF WATER CLOSET

★★★ WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF TOILET AREA. 1 1/2" (MIN) CLEARANCE SHALL BE PROVIDED FROM ANY FIXTURE OR FLUSH VALVE. SEE DIAGRAMS ON SHEET P-1.01

## NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, REQUIRED PV SYSTEM CAPACITY (kW), WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = $S_S$
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 ART. 3.30 (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
7. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION
8. INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY
11. TOILET ROOM FLOORING AND BASE SHALL BE INSTALLED PER 10/A-5.70 IN LIEU OF PROVIDING A CURB (IR 23-2)
12. DOORS SHALL PROVIDED WITH MINIMUM 4' CANOPY OR ROOF OVERHANG

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## WALL LEGEND

NOMINAL 4" WALL STUD ☐
NOMINAL 6" WALL STUD ☐
NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2

(#) DOOR PER SCHEDULE SHEET A-0.2

NOTES:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (OR 6" NOMINAL STEEL STUD) (MIN). EXCEPTION: AT UNCONDITIONED RESTROOM MODULES.

2x4 (OR 4" NOMINAL STEEL STUD) WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH AT UNCONDITIONED RESTROOM MODULES WITH WALLS OVER 9'-0" IN HEIGHT.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

## SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.5)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

# ROSEMEAD SD
# MILDRED B. JANSON ES
# (3) CLASSROOM BLDG'S

SHEET TITLE:

## FLOOR PLAN
48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

REFER TO EQUIVALENT SHEET
PC 04-121999
- FOR ELEMENTS NOT SHOWN ON THIS "N" SHEET -

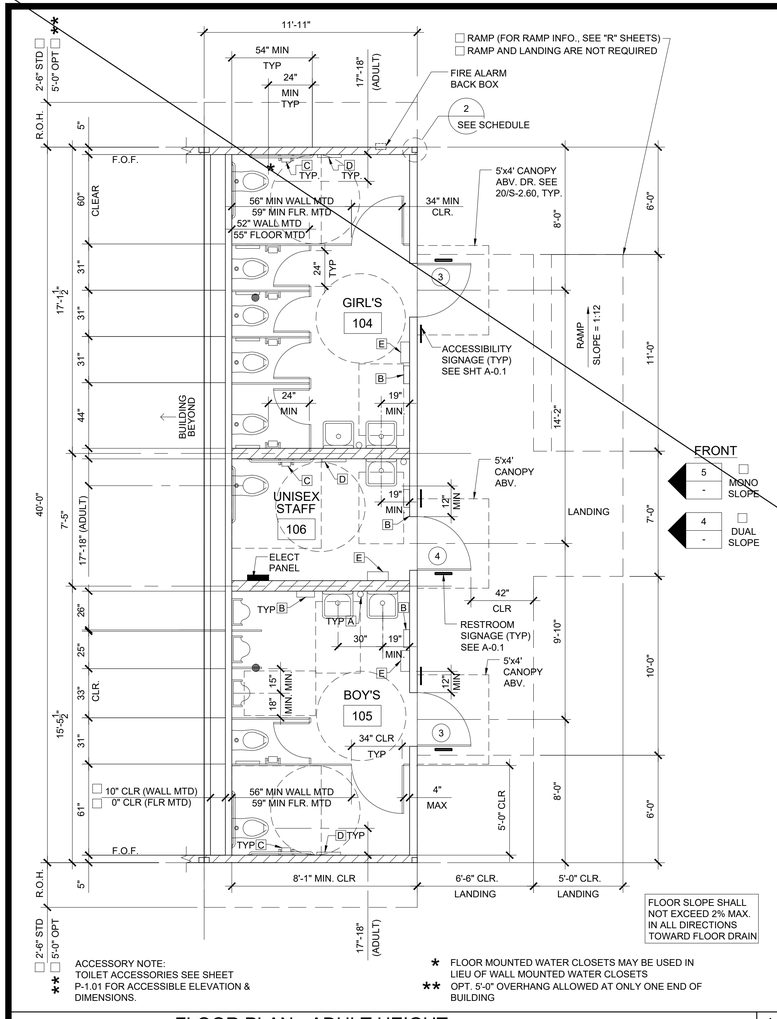
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40'

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

SHEET NUMBER
A-1.03N




ACCESSORY NOTE:
TOILET ACCESSORIES SEE SHEET P-1.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

## FLOOR PLAN - ADULT HEIGHT

SCALE: 1/4" = 1' - 0" | 1

## NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = $S_S$.
2. NOT USED
3. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
4. ACCESSORIES SHALL NOT ENCROACH REQUIRED CLEAR SPACE. LOCATION OF LAVATORY TO BE 19" MIN. FROM FACE OF FINISH OF WALL WHEN ACCESSORIES (PAPER TOWEL DISPENSERS, ELECTRIC HAND DRYERS, ETC.) HAVING A 4" PROJECTION ARE TO BE INSTALLED, SO AS NOT TO ENCROACH INTO THE 30" x 48" CLEAR SPACE.
5. TOILET ROOM FLOORING AND BASE SHALL BE INSTALLED PER 10/A-5.70 IN LIEU OF PROVIDING A CURB (IR 23-2)

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## WALL LEGEND

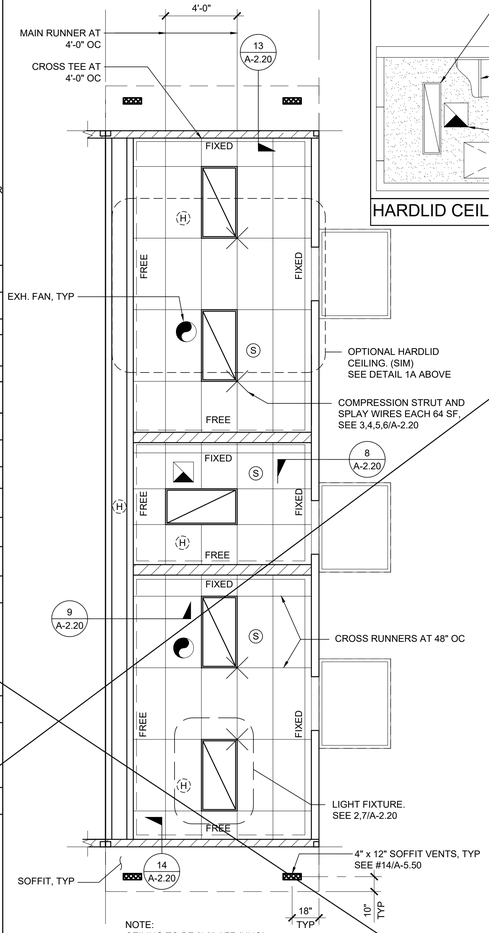
NOMINAL 4" WALL STUD ☐
NOMINAL 6" WALL STUD ☐
NOMINAL 8" WALL STUD ☐

## SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE
30"x48" CLEAR SPACE

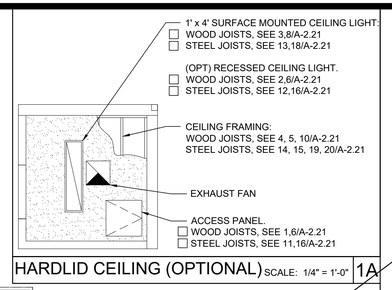
## TOILET ACCESSORIES

- A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION
- B PAPER TOWEL DISPENSER: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE
- C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
- D TOILET SEAT COVER DISPENSER: SURFACE MOUNTED
- E WALL MOUNTED WASTE RECEPTACLE, 6" MAX PROJECTION, 12" MAX ABV. FIN FLR TO BTM.



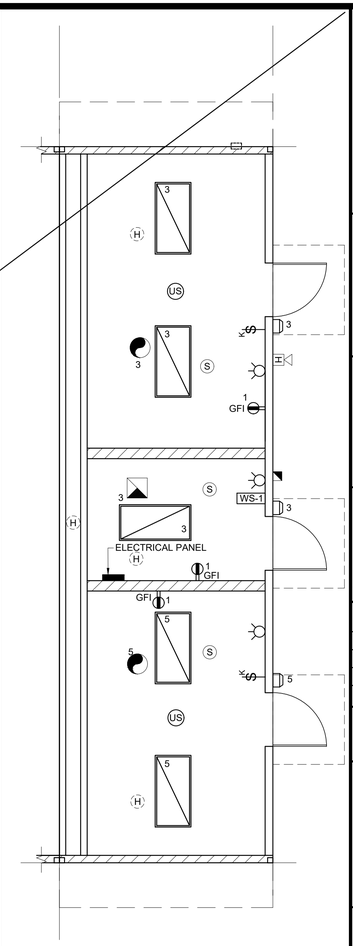

## REFLECTED CEILING PLAN

SCALE: 1/4" = 1' - 0" | 2




## HARDLID CEILING (OPTIONAL)

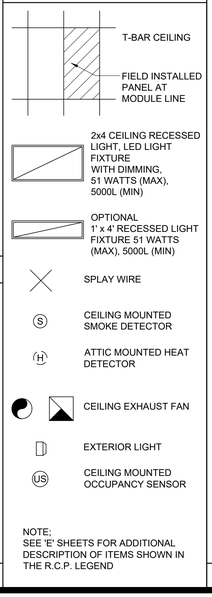
SCALE: 1/4" = 1'-0" | 1A



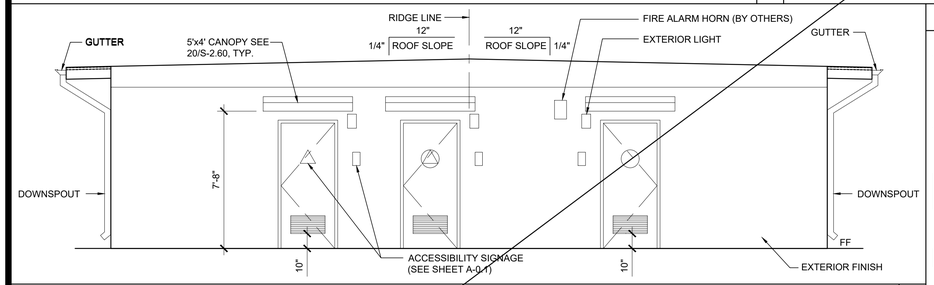

## ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0" | 3

## R.C.P. LEGEND

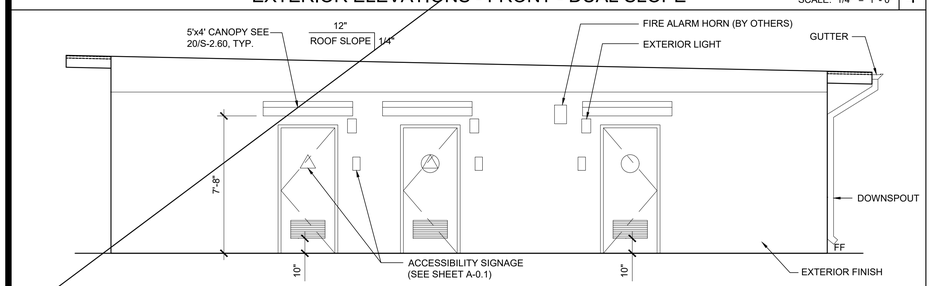



NOTE:
SEE 'E' SHEETS FOR ADDITIONAL DESCRIPTION OF ITEMS SHOWN IN THE R.C.P. LEGEND




## EXTERIOR ELEVATIONS - FRONT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 4




## EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 5

NOTES:
1. SEE SHEET A-0.2 FOR DOOR TYPE AND SCHEDULES
2. SEE SHEET A-1.04A FOR ALTERNATE AGE GROUP HEIGHTS

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOLTS: 120/208 V | | | | | PANEL: "B" | | | | | | | | | | | FEED: BOTTOM | |
| MAIN: 100A | | | | | LOCATION: INTERIOR ACCESS | | | | | | | | | | | MOUNTING: FLUSH | |
| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
| RECEPTACLES / GFI | 3 | 540 | | 20 | 1 | 1 | | | 2 | | | | | | |
| INTERIOR/EXTERIOR LIGHTING/EXHAUST FAN | 7 | | 560 | 20 | 1 | 3 | | | 4 | | | | | | |
| INTERIOR/EXTERIOR LIGHTING/EXHAUST FAN | 4 | 365 | | 20 | 1 | 5 | | | 6 | | | | | | |
| | | | | | 1 | 7 | | | 8 | | | | | | |
| DED. - SOLAR READY | | | | | | 9 | | | 10 | | | | | | |
| DED. - SOLAR READY | | | | | | 11 | | | 12 | 20 | 1 | | 40 | | FIRE ALARM |
| A = 905 WATTS / PHASE | | 905 | 560 | | | | | | | | | | 40 | | B = 600 WATTS / PHASE |
| TOTAL = 1805 WATTS | | 7.2 AMPS | | 120/208 VOLTS | | | | | | | | 1 Ø | | 3 WIRE | |

## ELECTRICAL PANEL

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DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# OPTIONAL RESTROOM END MODULE

## ADULT HEIGHT PLAN & ELEV'S

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

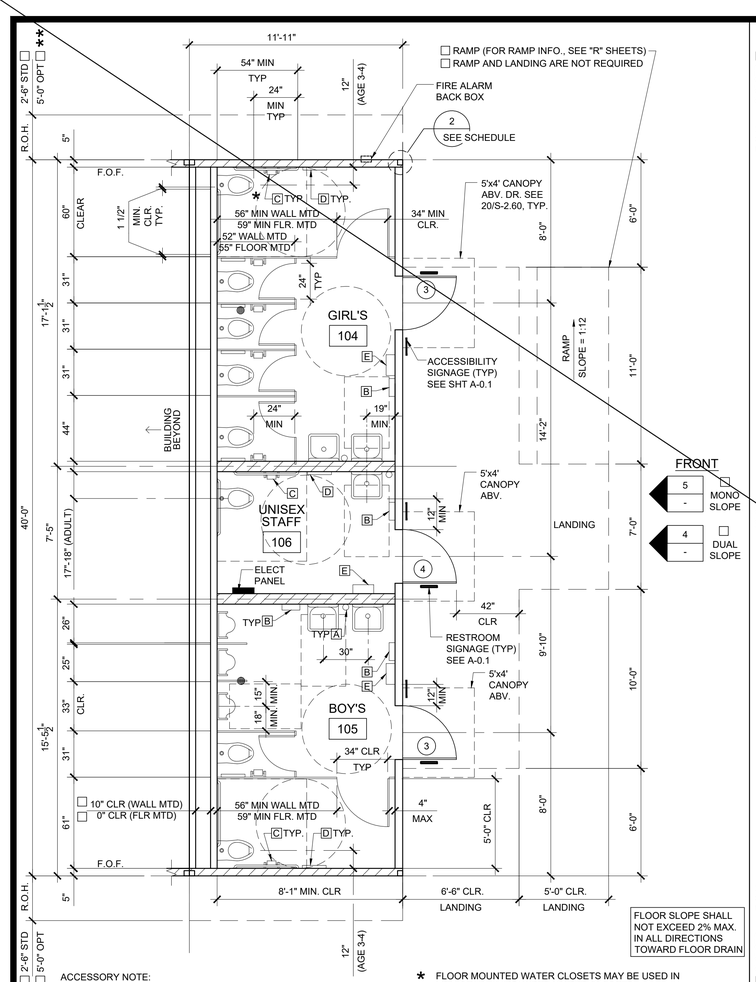
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-1.04



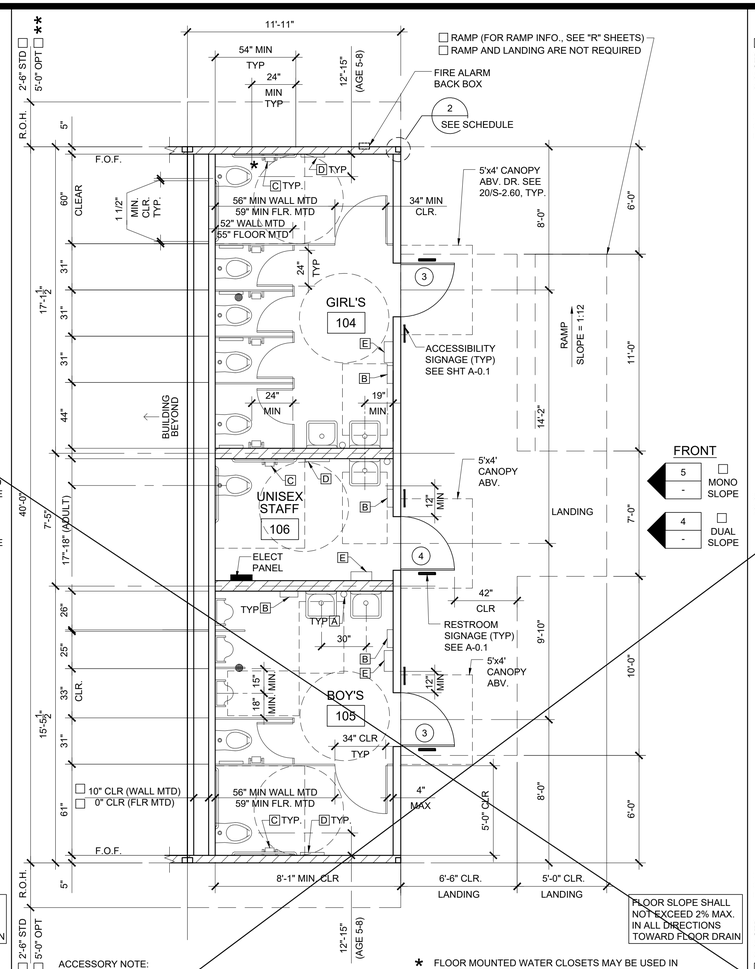

ACCESSORY NOTE:
TOILET ACCESSORIES SEE SHEET P-1.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

## FLOOR PLAN - AGE 3-4

SCALE: 1/4" = 1' - 0" | 3



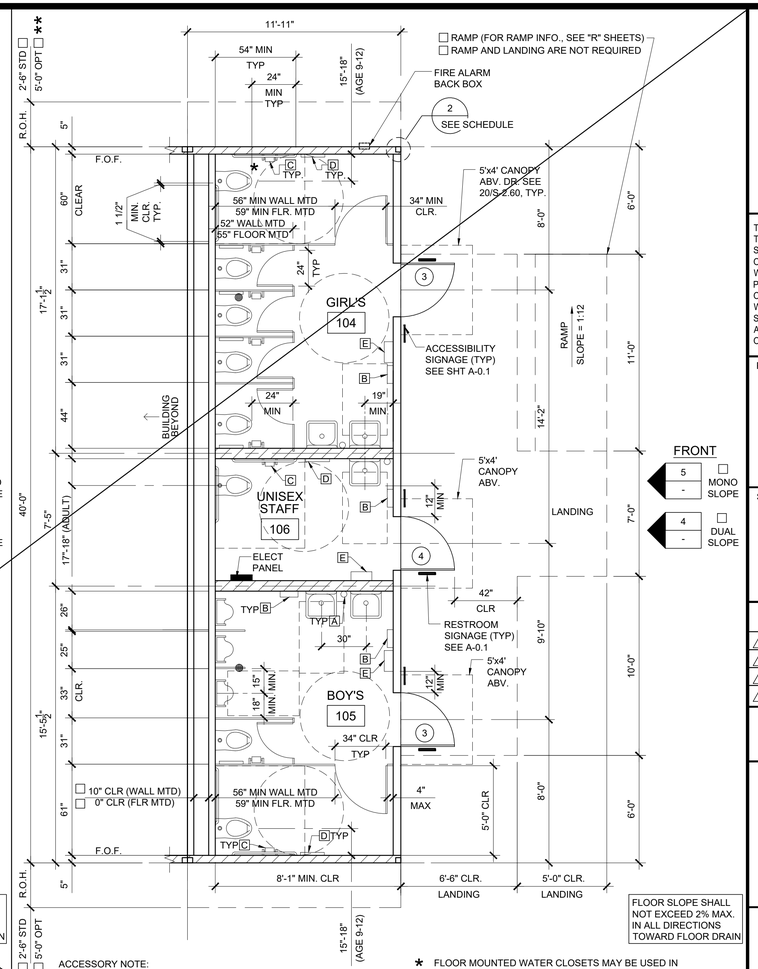

ACCESSORY NOTE:
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* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

## FLOOR PLAN - AGE 5-8

SCALE: 1/4" = 1' - 0" | 2




ACCESSORY NOTE:
TOILET ACCESSORIES SEE SHEET P-1.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

## FLOOR PLAN - AGE 9-12

SCALE: 1/4" = 1' - 0" | 1

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# OPTIONAL RESTROOM END MODULE

## ALTERNATE HEIGHT PLANS

| REVISIONS |
|---|
| 02/27/2026 BID SET |
| 2 |
| 3 |
| 4 |
| 5 |

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN 'N STARLING
24575
STRUCTURAL
STATE OF CALIFORNIA

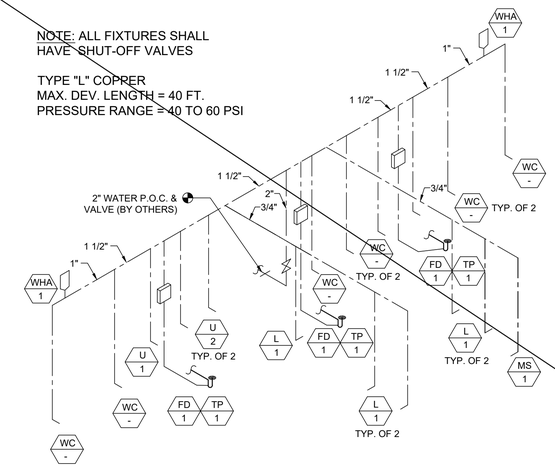
| SILVER CREEK INDUSTRIES 24' x 40' PC | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-1.04A

NOTE: ALL FIXTURES SHALL HAVE SHUT-OFF VALVES

TYPE "L" COPPER
MAX. DEV. LENGTH = 40 FT.
PRESSURE RANGE = 40 TO 60 PSI

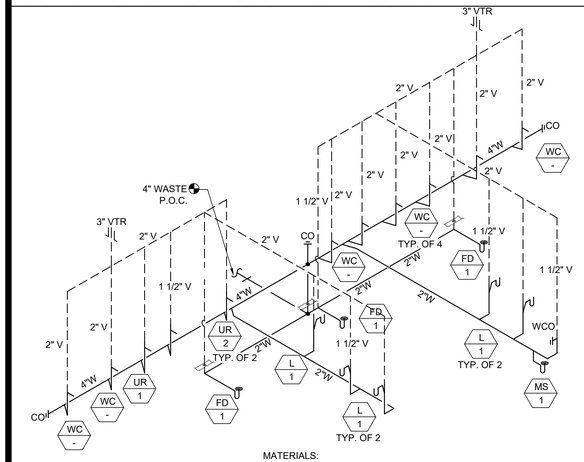



WATER LINE

SEE NOTES THIS SHEET

## SUPPLY ISOMETRIC - FLOOR AND WALL MOUNT

SCALE: N.T.S. | 9




MATERIALS:

- ABS SCHEDULE 40 IS STANDARD
- CAST IRON W/ NO HUB CONNECTOR IS OPTION FOR BLDG. OVER 2160 SF.
- BASED ON 1/4" PER FOOT SLOPE

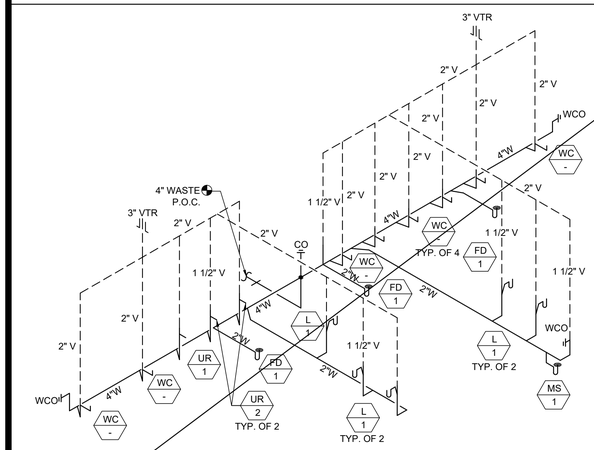
VENT LINE

WASTE LINE

SEE NOTES THIS SHEET

## WASTE AND VENTING ISOMETRIC - WALL MOUNT

SCALE: N.T.S. | 10




MATERIALS:

- ABS SCHEDULE 40 IS STANDARD
- CAST IRON W/ NO HUB CONNECTOR IS OPTION FOR BLDG. OVER 2160 SF.
- BASED ON 1/4" PER FOOT SLOPE

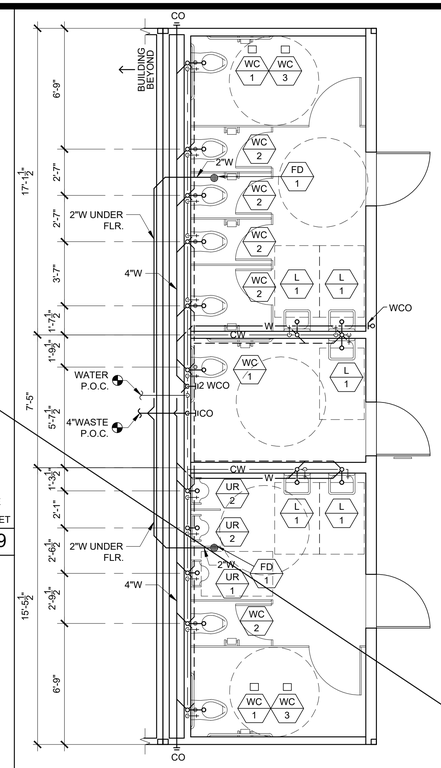
VENT LINE

WASTE LINE

SEE NOTES THIS SHEET

## WASTE AND VENTING ISOMETRIC - FLOOR MOUNT

SCALE: N.T.S. | 11

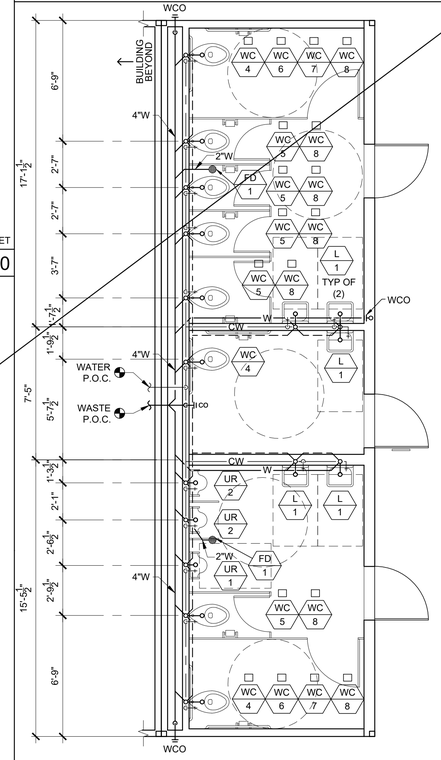



## WALL MOUNT

SEE NOTES THIS SHEET
SCALE: 1/4" = 1-0"

## PLUMBING PLAN (AGE 5-8, 9-12 & ADULT)

7

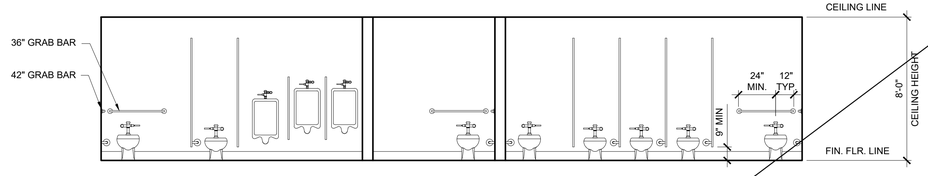



## FLOOR MOUNT

SEE NOTES THIS SHEET
SCALE: 1/4" = 1-0"

## PLUMBING PLAN (AGE 3-4, 5-8, 9-12 & ADULT)

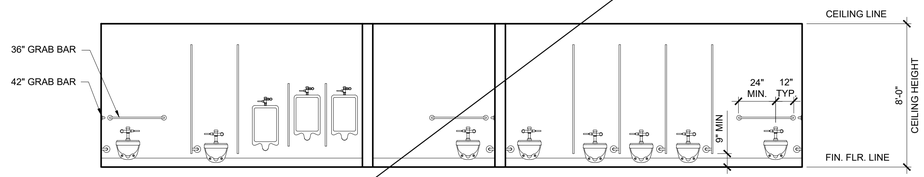
8




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

## PLUMBING FIXTURE ELEVATION - FLOOR MOUNTED (ADULT)

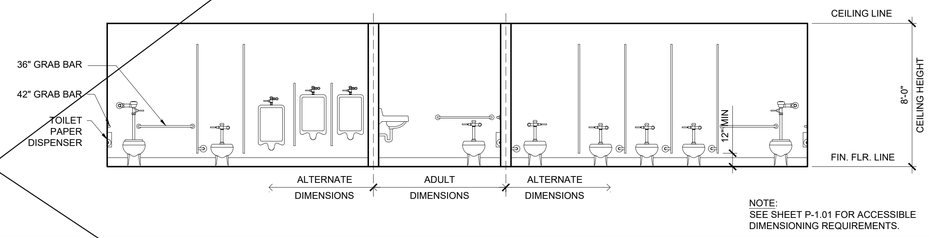
SCALE: 1/4" = 1-0" | 1




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

## PLUMBING FIXTURE ELEVATION - WALL MOUNTED (ADULT)

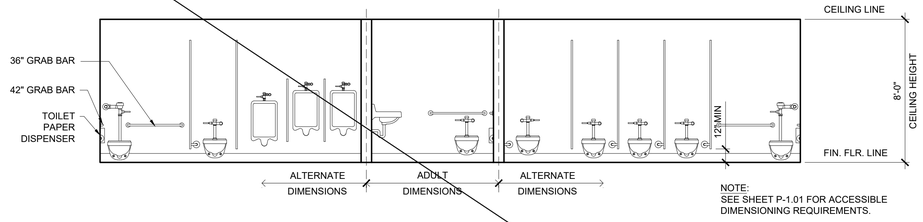
SCALE: 1/4" = 1-0" | 2




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

## PLUMBING FIXTURE ELEVATION - FLOOR WALL MOUNTED (AGE 5-8 OR 9-12)

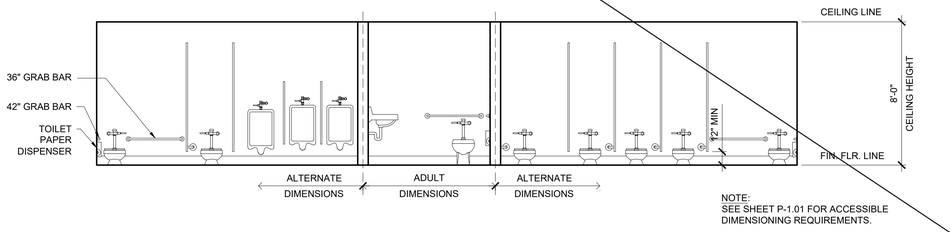
SCALE: 1/4" = 1-0" | 3




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

## PLUMBING FIXTURE ELEVATION - WALL MOUNTED (AGE 5-8 OR 9-12)

SCALE: 1/4" = 1-0" | 4




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

## PLUMBING FIXTURE ELEVATION - FLOOR MOUNTED (AGE 3 - 4)

SCALE: 1/4" = 1-0" | 5

NOTE:

- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 8' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS.
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED.
- INSULATION SHALL HAVE A FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450.

NOTE:
FOR PLUMBING FIXTURE SCHEDULE SEE SHEET A-1.07

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# OPTIONAL RESTROOM END MODULE
## PLUMBING SHEET

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

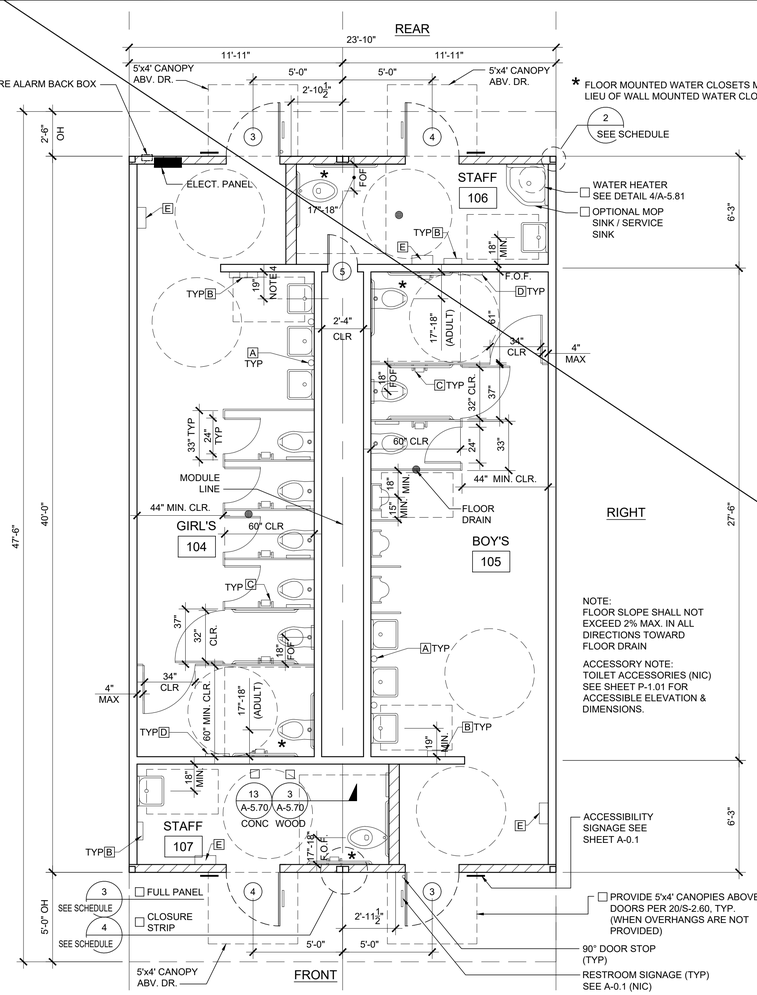
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

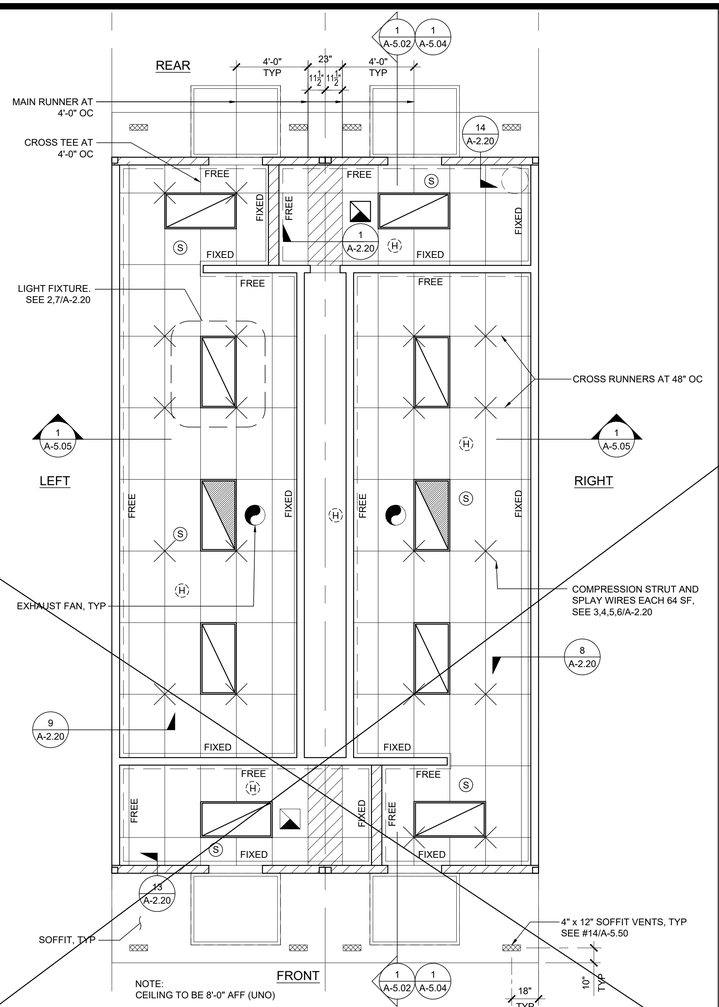
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-1.05



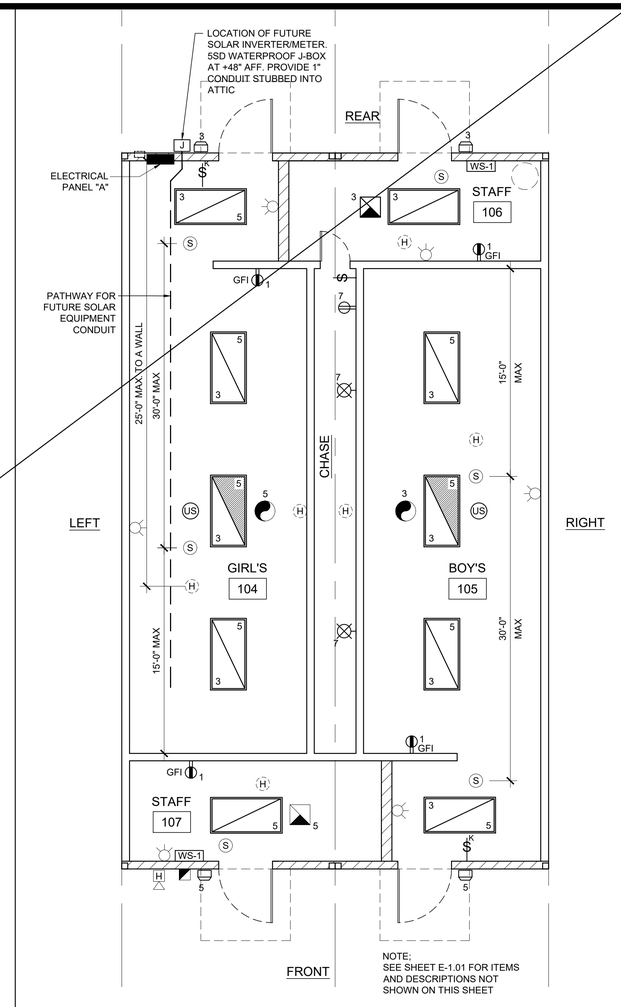

## FLOOR PLAN (ADULT HEIGHT)

SCALE: 1/4" = 1' - 0" | 1



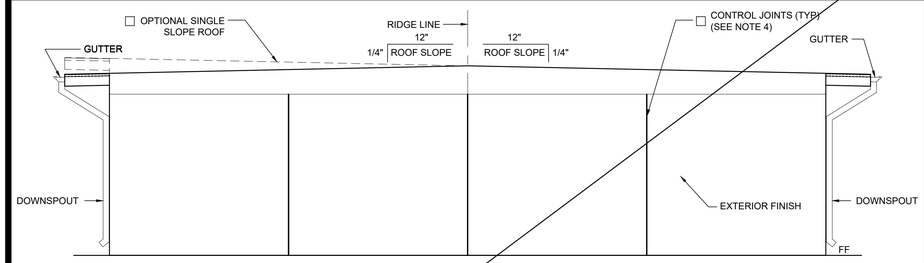

## REFLECTED CEILING PLAN

SCALE: 1/4" = 1' - 0" | 2



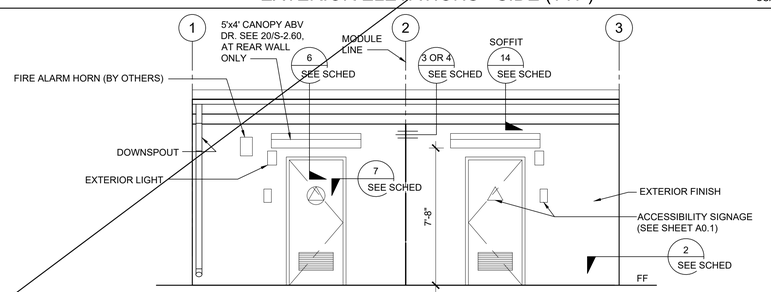

## ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0" | 3




## EXTERIOR ELEVATIONS - SIDE (TYP)

SCALE: 1/4" = 1' - 0" | 4




## EXTERIOR ELEVATIONS - FRONT / REAR

SCALE: 1/4" = 1' - 0" | 5

## R.C.P. LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING, 51 WATTS (MAX), 5000L (MIN)
- OPTIONAL 1' x 4' RECESSED LIGHT FIXTURE 51 WATTS (MAX), 5000L (MIN)
- SPLAY WIRE
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR
- CEILING EXHAUST FAN
- EXTERIOR LIGHT
- FIRE ALARM STROBE

NOTE:
SEE 'E' SHEETS FOR ADDITIONAL DESCRIPTION OF ITEMS SHOWN IN THE R.C.P. LEGEND

- 30"x48" CLEAR SPACE
- 60" CIRCLE CLEAR SPACE

## ELECTRICAL PANEL

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOLTS: 120/208 V | | | | | PANEL: "A" | | | | | | | | FEED: BOTTOM | |
| MAIN: 100A | | | | | LOCATION: INTERIOR ACCESS | | | | | | | | MOUNTING: FLUSH | |
| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
| RECEPTACLES / GFI | 3 | 720 | | 20 | 1 | 1 | | 2 | | | | | | |
| INTERIOR/EXTERIOR LIGHTING/EXHAUST FAN | 8 | | 955 | 20 | 1 | 3 | | 4 | | | | | | |
| INTERIOR/EXTERIOR LIGHTING/EXHAUST FAN | 5 | 955 | | 20 | 1 | 5 | | 6 | | | | | | |
| CHASE LIGHT / RECEPTACLE (OPT B-1) | 3 | | 300 | 20 | 1 | 7 | | 8 | | | | | | |
| | | | | | | 9 | | 10 | | | | | | |
| | | | | | | 11 | | 12 | 20 | 1 | | 40 | | FIRE ALARM |
| A = 1675 WATTS / PHASE | | 1675 | 1255 | | | | | | | | | 40 | | B = 2510 WATTS / PHASE |
| TOTAL = 4185 WATTS | | 17.4 | AMPS | 120/208 | VOLTS | | | | | 1 Ø | | | 3 | WIRE |

## NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1.13 (2.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = $S_S$.
2. NOT USED
3. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
4. ACCESSORIES SHALL NOT ENCROACH REQUIRED CLEAR SPACE. LOCATION OF LAVATORY TO BE 19" MIN. FROM FACE OF FINISH OF WALL WHEN ACCESSORIES (PAPER TOWEL DISPENSERS, ELECTRIC HAND DRYERS, ETC.) HAVING A 4" PROJECTION ARE TO BE INSTALLED, SO AS NOT TO ENCROACH INTO THE 30" x 48" CLEAR SPACE.
5. TOILET ROOM FLOORING AND BASE SHALL BE INSTALLED PER 10/A-5.70 IN LIEU OF PROVIDING A CURB (IR 23-2)

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## TOILET ACCESSORIES

(REF. ONLY - MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

- A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION
- B PAPER TOWEL DISPENSER: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE
- C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
- D TOILET SEAT DISPENSER: SURFACE MOUNTED
- E WALL MOUNTED WASTE RECEPTACLE, 6" MAX PROJECTION, 12" MAX ABV. FIN FLR TO BTM.

## WALL LEGEND

- NOMINAL 4" WALL STUD ☐
- NOMINAL 6" WALL STUD ☐
- NOMINAL 8" WALL STUD ☐

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# TOILET BUILDING 24'x40'

## ADULT HEIGHT PLAN & ELEV'S

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

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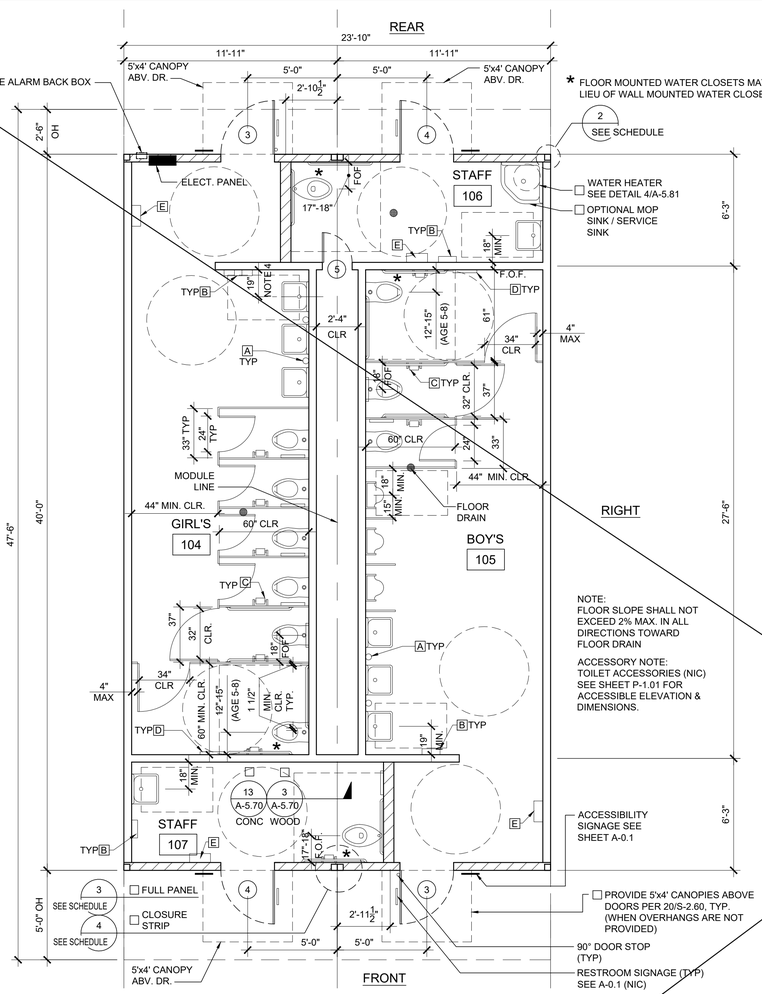
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-1.06



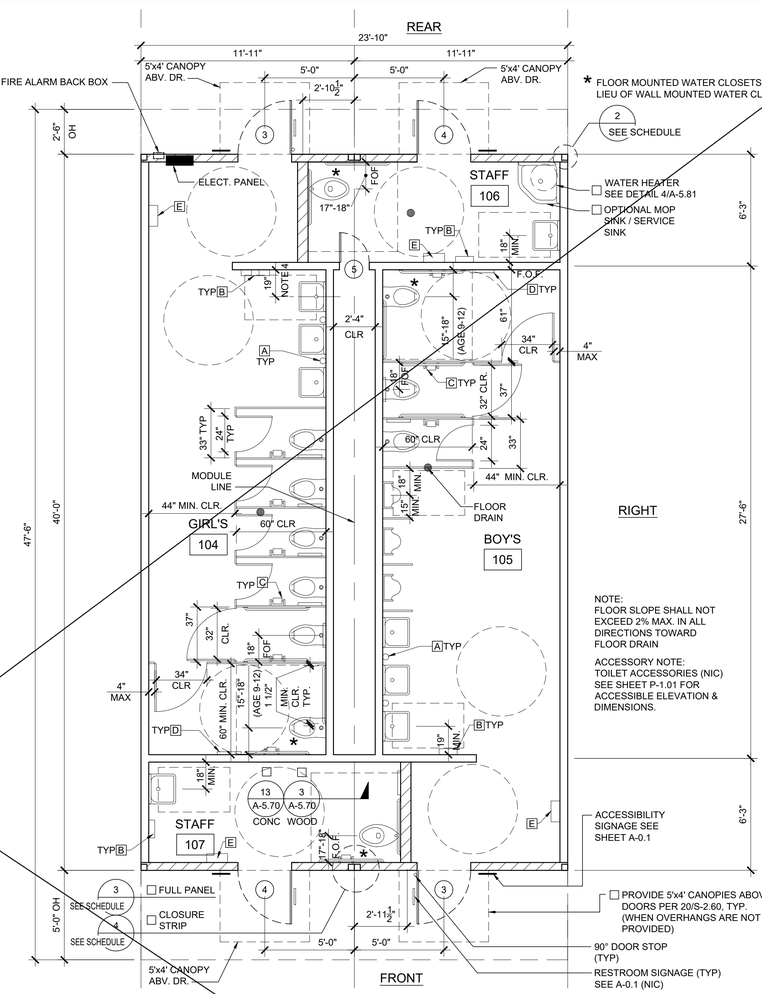

* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

NOTE:
FLOOR SLOPE SHALL NOT EXCEED 2% MAX. IN ALL DIRECTIONS TOWARD FLOOR DRAIN

ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-1.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

## FLOOR PLAN - AGE 5-8

SCALE: 1/4" = 1' - 0" | 2




* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

NOTE:
FLOOR SLOPE SHALL NOT EXCEED 2% MAX. IN ALL DIRECTIONS TOWARD FLOOR DRAIN

ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-1.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

## FLOOR PLAN - AGE 9-12

SCALE: 1/4" = 1' - 0" | 1

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# TOILET BUILDING 24'x40'
## ALTERNATE HEIGHT PLANS

REVISIONS
02/27/2026 BID SET
2
3
4
5

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

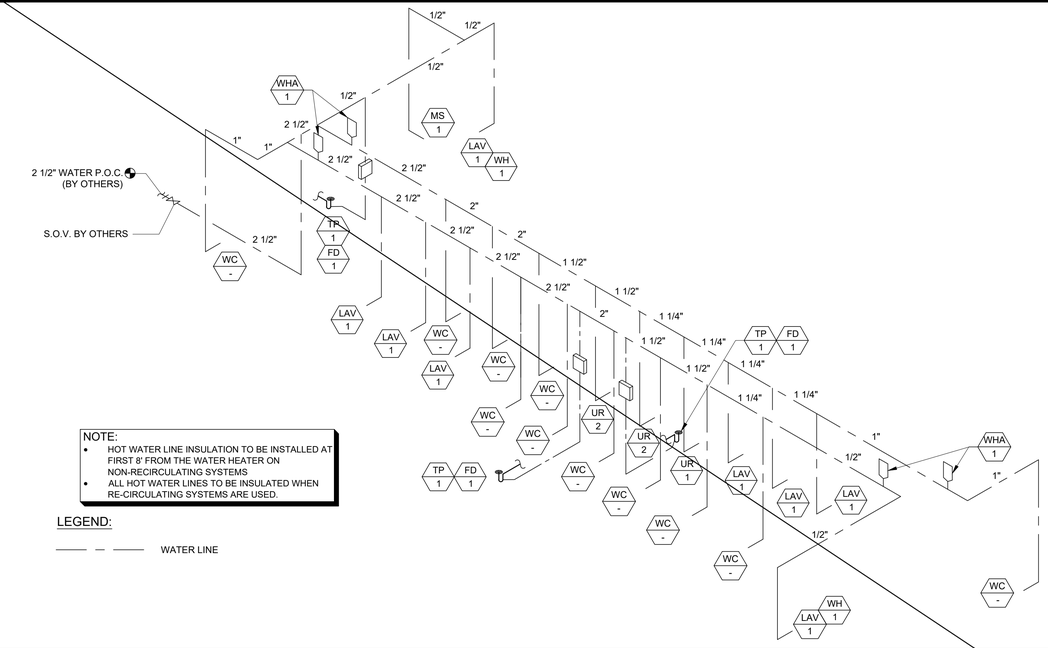
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-1.06A



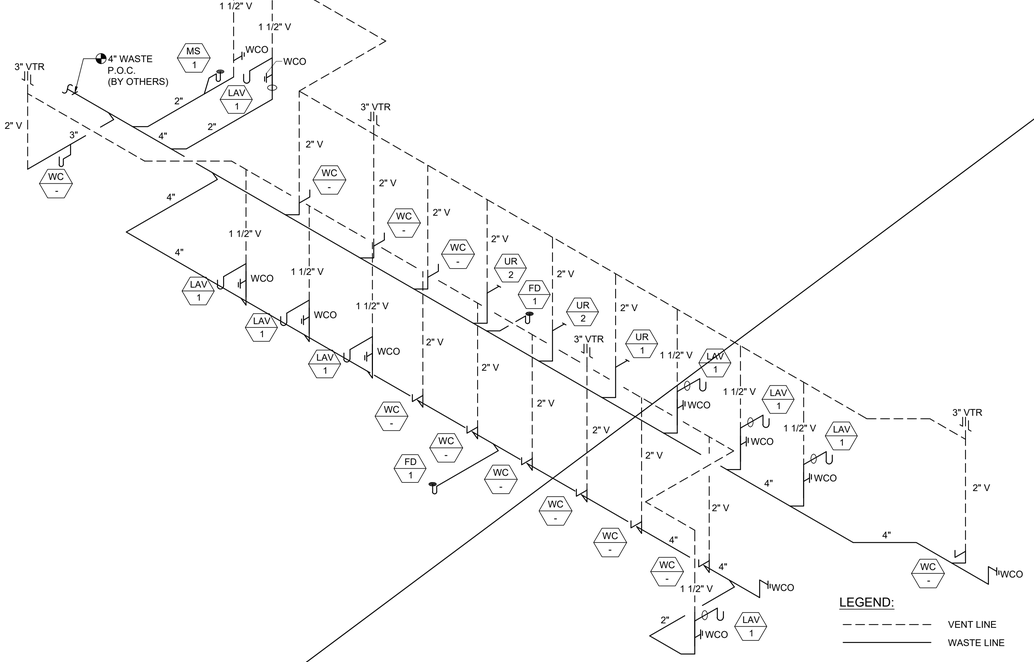

NOTE:
- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 8' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED.

LEGEND:

——— – ——— WATER LINE

## SUPPLY ISOMETRIC

SCALE: N.T.S. | 3

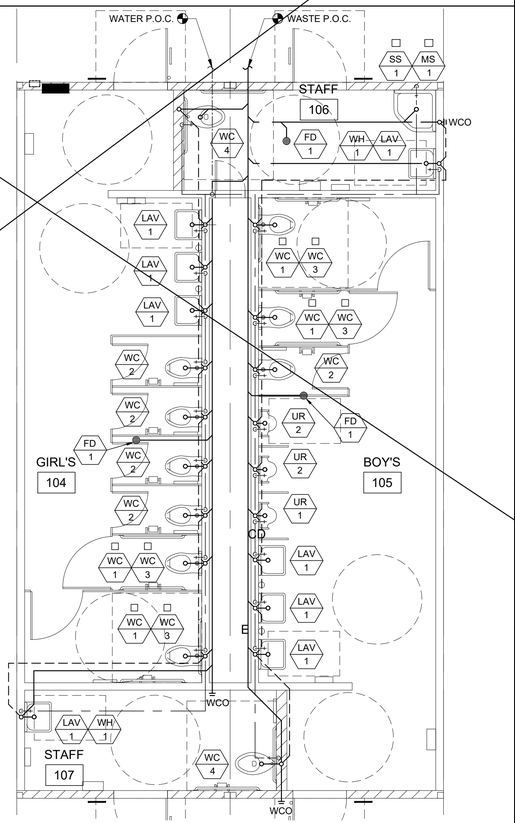



## WASTE AND VENTING ISOMETRIC

SCALE: N.T.S. | 4

## PLUMBING FIXTURE SCHEDULE CONT.

| SYMBOL | FIXTURE | COLD WATER | HOT WATER | WASTE | VENT | FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL) |
|---|---|---|---|---|---|---|
| WC 20 | [ ADULT ] WATER CLOSET TANK TYPE (ACCESSIBLE) | 1/2" | - | 3" | 2" | STD: PROFLO PF9403 (1.28 GPF) ALT: AMERICAN STANDARD ADA 2758.128, 17 HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT |
| WC 21 | [ AGE 9-12 ] WATER CLOSET TANK TYPE (ACCESSIBLE) | 1/2" | - | 3" | 2" | STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT |
| WC 22 | [ AGE 5 TO ADULT ] WATER CLOSET TANK TYPE (NON-ACCESSIBLE) | 1/2" | - | 3" | 2" | STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT |
| WC 23 | [ AGE 3-4 ] WATER CLOSET TANK TYPE (ACCESSIBLE & NON-ACCESSIBLE) | 1/2" | - | 3" | 2" | STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT |
| WC 24 | [ AGE 5-8 ] WATER CLOSET TANK TYPE (ACCESSIBLE) | 1/2" | - | 3" | 2" | STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; CHURCH 2L2155T (2" LIFT) SOLID OPEN WHITE ELONG. PLASTIC SEAT |




## PLUMBING PLAN (AGE 5-8, 9-12 & ADULT)

SCALE: 1/4" = 1-0" | 1

| SYMBOL | FIXTURE | COLD WATER | HOT WATER | WASTE | VENT | FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL) |
|---|---|---|---|---|---|---|
| WC 1 | [ ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER |
| WC 2 | [ AGE 5 TO ADULT ] WATER CLOSET WALL MTD/ FLUSH (NON-ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER |
| WC 3 | [ AGE 5 TO 12] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #115-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER |
| WC 4 | [ ADULT ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO PF1723 (1.28 GPF) ALT: AMERICAN STD 3043.001 "MADERA" 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 5 | [ AGE 5 TO ADULT ] WATER CLOSET FLOOR MTD/FLUSH (NON-ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 6 | [ AGE 9-12 ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #115-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 7 | [ AGE 5-8 ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | AMERICAN STANDARD 2599.001 MADERA YOUTH (1.28 GPF) 14" HIGH, VITREOUS CHINA ELONG. RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR ELONGATED WHITE PLASTIC SEAT; SLOAN ROYAL #115-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 8 | [ AGE 3-4 ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE & NON-ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO PF1700BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2282.010 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 126CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE |
| LAV 1 | LAVATORY (ACCESSIBLE) | 1/2" | - | 2" | 1 1/2" | STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER; OLYMPIA #6161 SINGLE HANDLE FAUCET (0.5 GPM) |
| UR 1 | URINAL (ACCESSIBLE) | 3/4" | - | 2" | 1 1/2" | STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.501 VITREOUS CHINA, WALL HUNG, SIPHON JET URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE |
| UR 2 | URINAL (NON-ACCESSIBLE) | 3/4" | - | 2" | 1 1/2" | STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.501 WASHOUT VITREOUS CHINA, WALL HUNG URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE |
| FD 1 | FLOOR DRAIN | - | - | 2" | 1 1/2" | JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS |
| TP 1 | TRAP PRIMER | 1/2" | - | - | - | PR-500 WITH 8"x12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM |
| WHA 1 | WATER HAMMER ARRESTOR | 1" | - | - | - | PPP SC-1000 |
| GB 1 | GRAB BAR | - | - | - | - | BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE |
| MR 1 | MIRROR | - | - | - | - | SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"x24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL |
| PAR 1 | TOILET PARTITION | - | - | - | - | METAL POWDER COATED |
| SS 1 | SERVICE SINK | 1/2" | 1/2" | 2" | 1 1/2" | KOHLER K-6714 "BANNON" 22"x18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP |
| MS 1 | MOP SINK | 1/2" | 1/2" | 2" | 1 1/2" | AMERICAN STANDARD #7741.000 28"x28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER |
| CS 1 | CLASSROOM SINK (OPTION) | 1/2" | 1/2" | 2" | 1 1/2" | JUST CRA-1725-A-GR 17"x25" w/ 4 1/2" BOWL DEPTH, WITH CHICAGO FAUCET #350 AND BUBBLER JSB-10 |
| WH 1 | INSTANT WATER HEATER | 1/2" | 1/2" | - | - | EEMAX #SP3012, 120V, 3.0 KW, 25A |
| DF 1 | DRINKING FOUNTAIN | 1/2" | - | 2" | 1 1/2" | HALSEY-TAYLOR / BI-LEVEL HAC8FSBL-Q / COOLING TYPE |

** NOTE;
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.

## PLUMBING FIXTURE SCHEDULE

A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# TOILET BUILDING 24'x40'
## PLUMBING SHEET

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

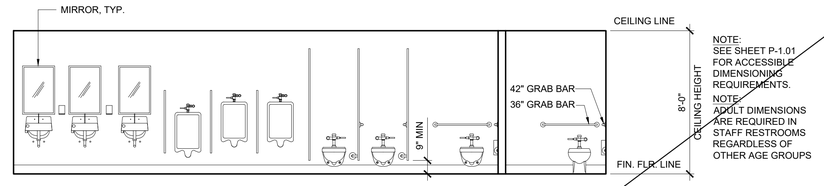
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-1.07

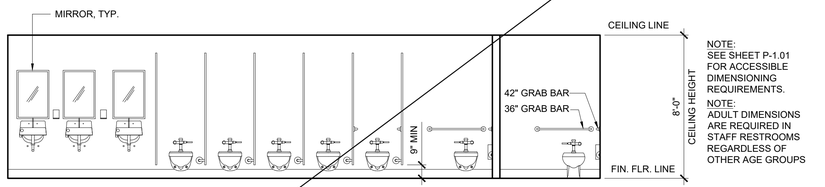
5 | 2 | A




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

NOTE:
ADULT DIMENSIONS ARE REQUIRED IN STAFF RESTROOMS REGARDLESS OF OTHER AGE GROUPS

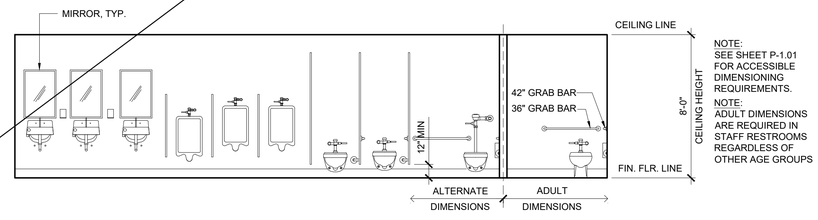
PLUMBING FIXTURE ELEVATION - BOYS (ADULT HEIGHT) SCALE: 1/4" = 1-0" 1




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

NOTE:
ADULT DIMENSIONS ARE REQUIRED IN STAFF RESTROOMS REGARDLESS OF OTHER AGE GROUPS

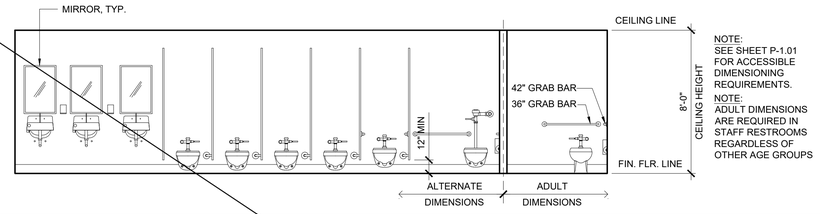
PLUMBING FIXTURE ELEVATION - GIRLS (ADULT HEIGHT) SCALE: 1/4" = 1-0" 2




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

NOTE:
ADULT DIMENSIONS ARE REQUIRED IN STAFF RESTROOMS REGARDLESS OF OTHER AGE GROUPS

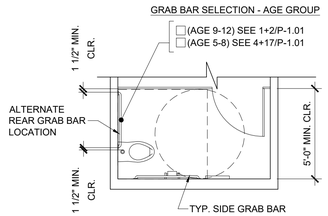
PLUMBING FIXTURE ELEVATION - BOYS (AGE 5-8 OR 9-12) SCALE: 1/4" = 1-0" 3




NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

NOTE:
ADULT DIMENSIONS ARE REQUIRED IN STAFF RESTROOMS REGARDLESS OF OTHER AGE GROUPS

PLUMBING FIXTURE ELEVATION - GIRLS (AGE 5-8 OR 9-12) SCALE: 1/4" = 1-0" 4




ALTERNATE ACCESSIBLE TOILET STALL (DETAIL - 'A')

IDENTIFICATION STAMP
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APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# TOILET BUILDING 24'x40'
## INTERIOR ELEVATIONS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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APP. 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

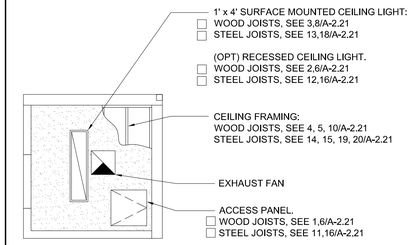
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

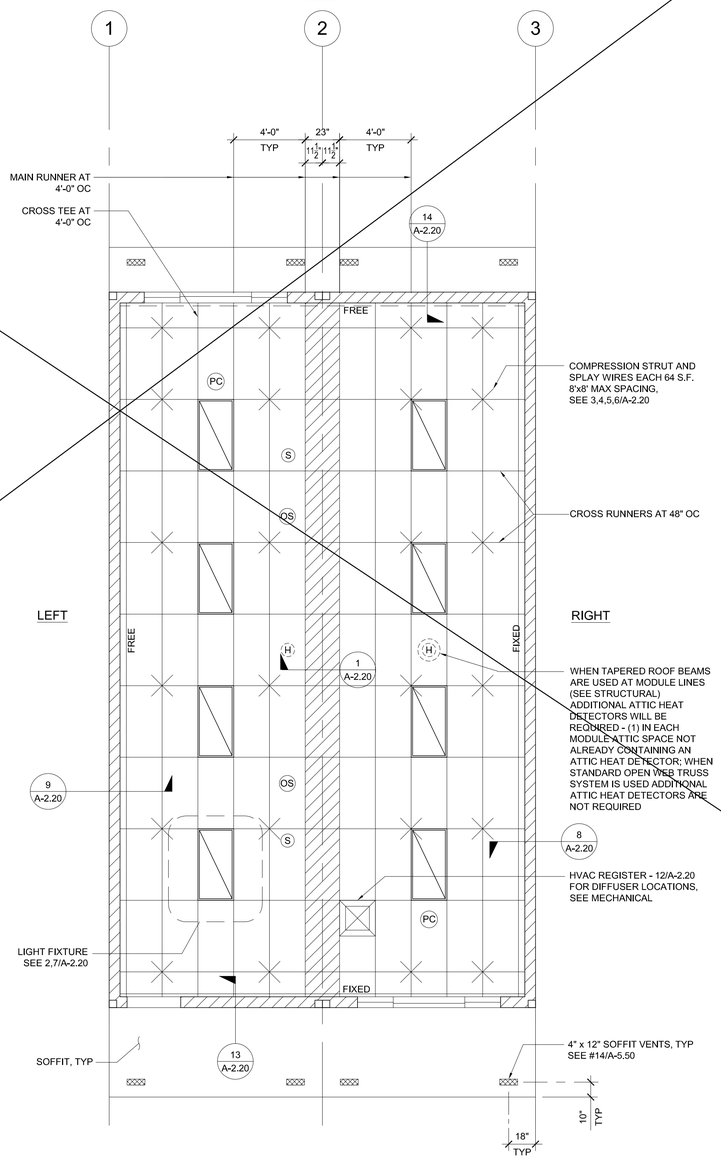
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-1.08




HARDLID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" | 1A

REAR




NOTE:
CEILING TO BE 8'-6" AFF (UNO)

FRONT

REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0" | 1

## LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE, HATCHING DENOTES EMERGENCY LIGHT FIXTURE (SEE ELECTRICAL PLAN)
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- RETURN AIR REGISTER
- SUPPLY AIR REGISTER
- CEILING EXHAUST FAN
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- PC — CEILING MOUNTED PHOTOCELL
- S — CEILING MOUNTED SMOKE DETECTOR
- H — ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

## T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2"
WALL ANGLE: 7810 (OPTIONAL)

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DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# REFLECTED CEILING PLAN
## 24' x 40'

REVISIONS
02/27/2026 BID SET
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

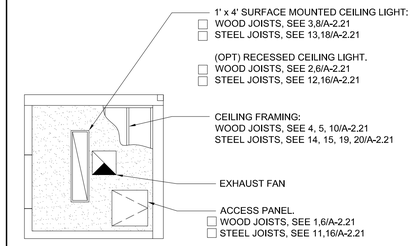
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

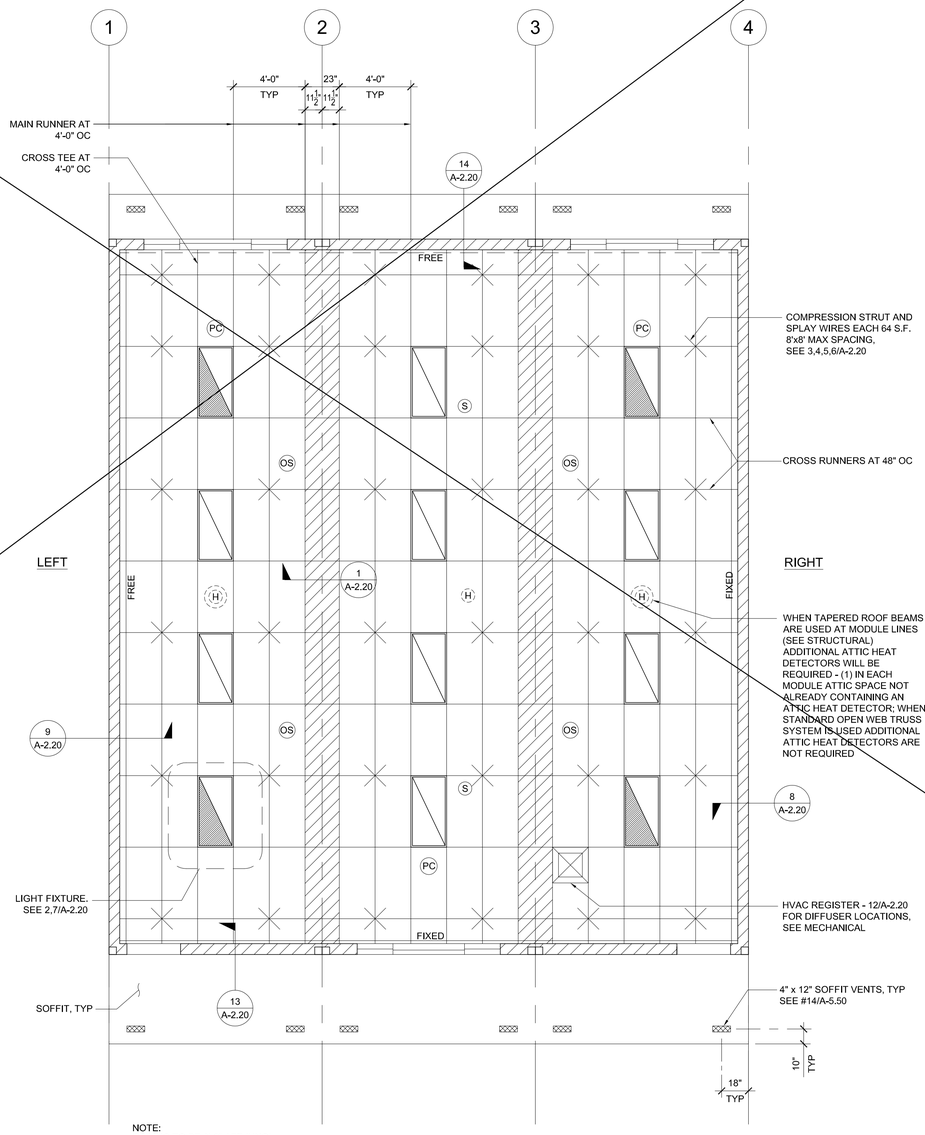
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-2.01




HARDLID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" | 1A

REAR




LEFT

RIGHT

FRONT

NOTE:
CEILING TO BE 8'-6" AFF (UNO)

REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0" | 1

## LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE, HATCHING DENOTES EMERGENCY LIGHT FIXTURE (SEE ELECTRICAL PLAN)
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- RETURN AIR REGISTER
- SUPPLY AIR REGISTER
- CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

## T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

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PROJECT NAME:

SHEET TITLE:

# REFLECTED CEILING PLAN
## 36' x 40'

REVISIONS
02/27/2026 BID SET
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DATE: 08/31/2023

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

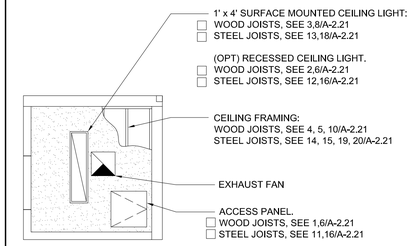
REGISTERED PROFESSIONAL ENGINEER
JOHN W STANKUS
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-2.02

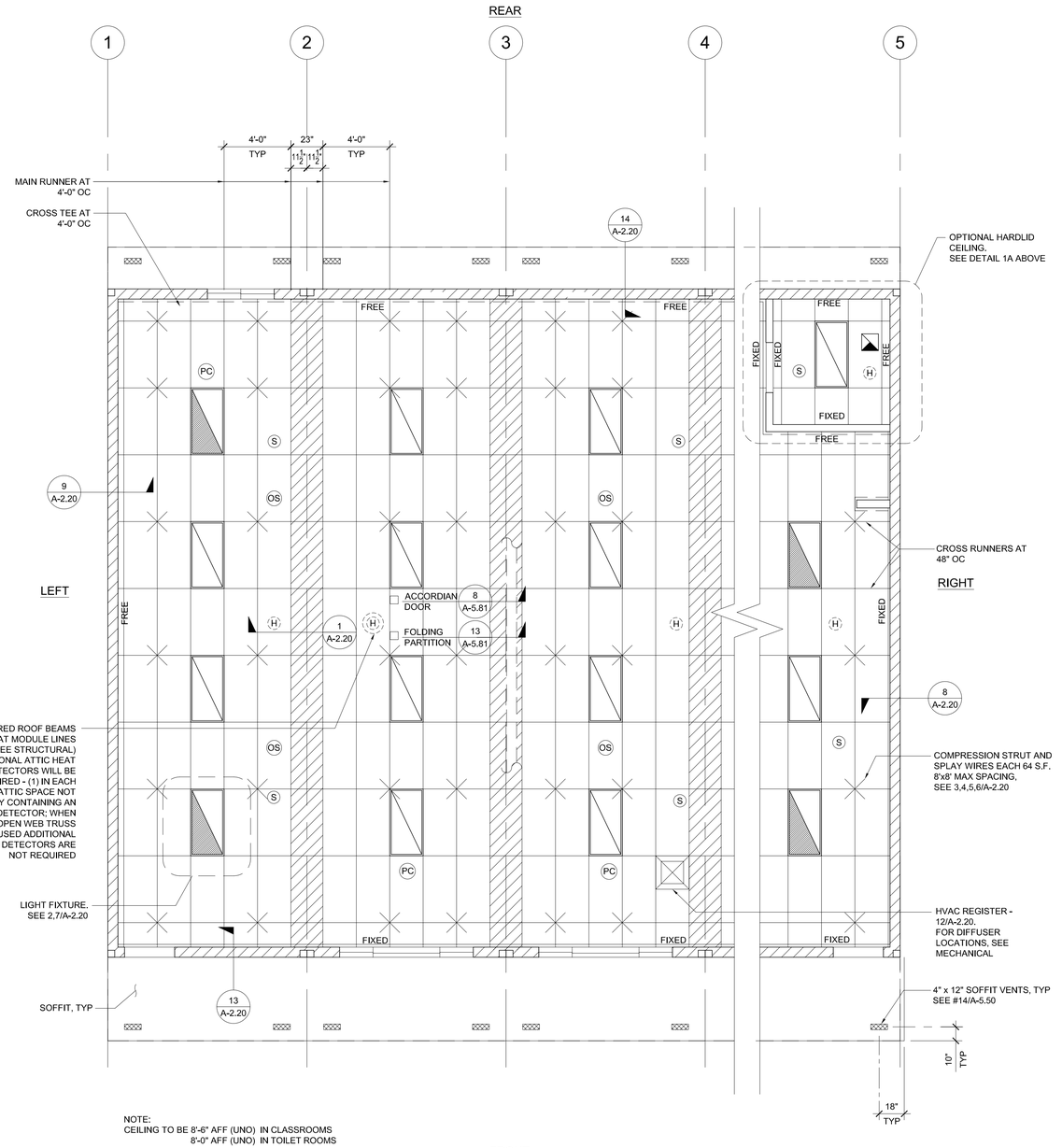



HARDLID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" | 1A

## LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE, HATCHING DENOTES EMERGENCY LIGHT FIXTURE (SEE ELECTRICAL PLAN)
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- RETURN AIR REGISTER
- SUPPLY AIR REGISTER
- CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

REAR




NOTE:
CEILING TO BE 8'-6" AFF (UNO) IN CLASSROOMS
8'-0" AFF (UNO) IN TOILET ROOMS

FRONT

REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0" | 1

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

NOTE:
WHERE OPERABLE PARTITION OCCURS, OCCUPANCY SENSOR SHALL BE DESIGNED AND LOCATED TO PROVIDE FOR EACH AREA CREATED BY THE PARTITION IN A CLOSED POSITION.

## T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

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DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# REFLECTED CEILING PLAN
## 48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

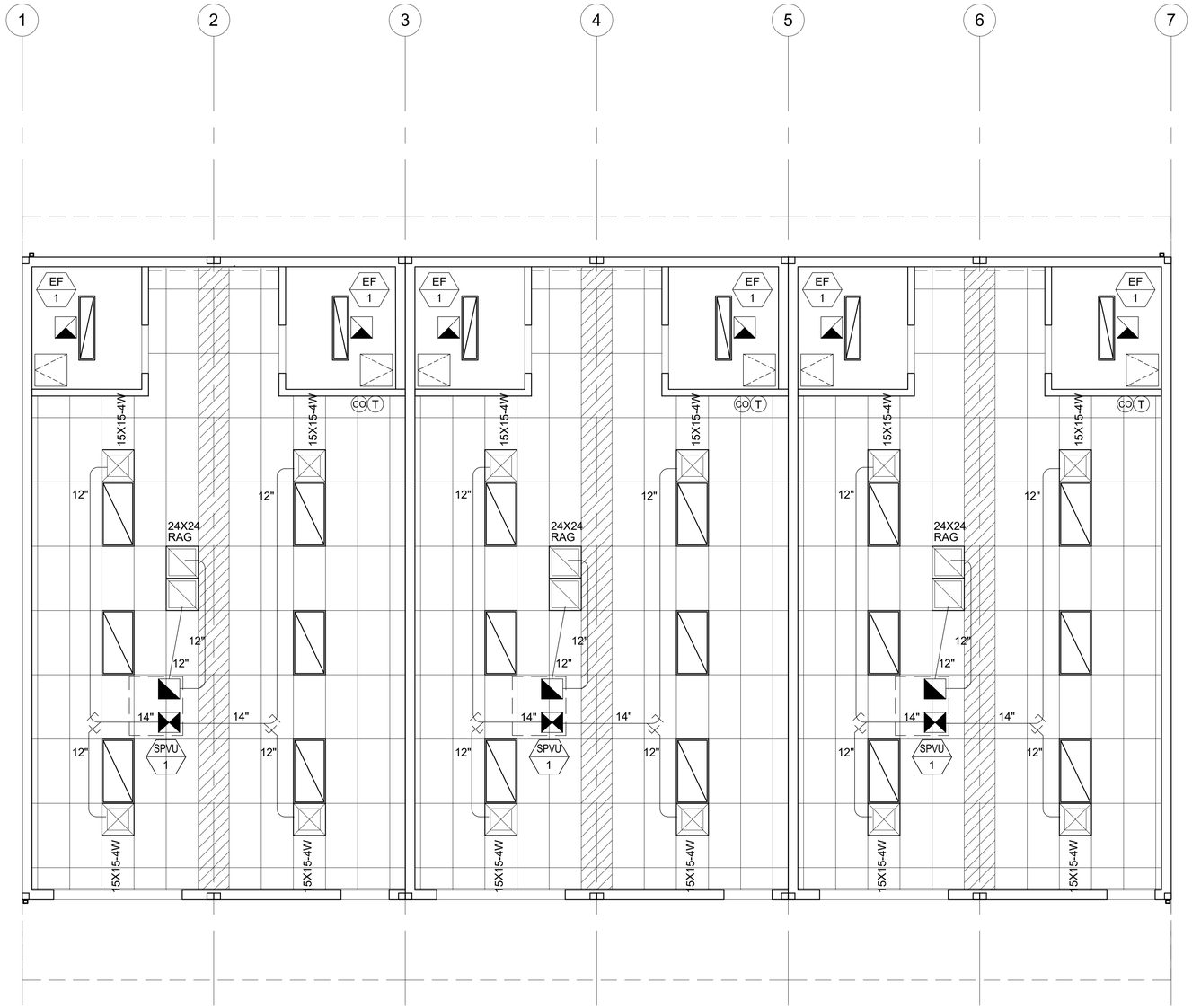
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-2.03




REFLECTED CEILING PLAN

SCALE: 1/4" = 1'- 0"



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PROJECT NAME:

# ROSEMEAD SD
# MILDRED B. JANSON ES
# (3) CLASSROOM BLDG'S

SHEET TITLE:

## REFLECTED CEILING PLAN
48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

REFER TO
EQUIVALENT SHEET
PC 04-121999
- FOR ELEMENTS NOT SHOWN ON THIS "N" SHEET -

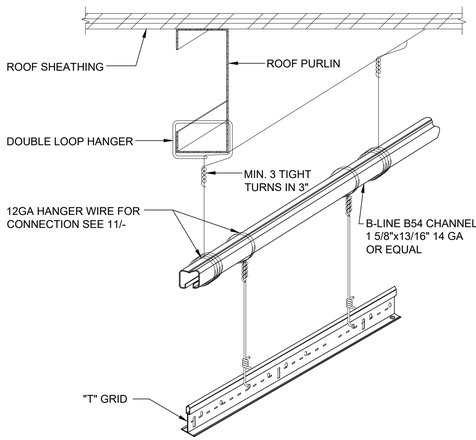
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40'

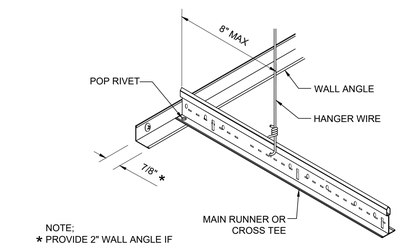
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

SHEET NUMBER
A-2.03N



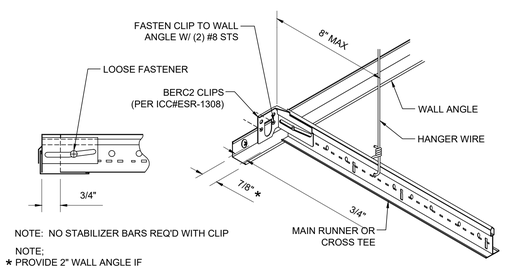

NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

## TRAPEZE DETAIL 17




NOTE:
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED ON FREE SIDES

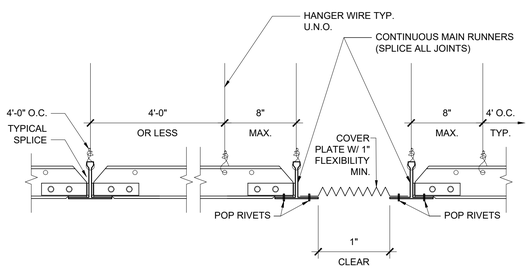
## FIXED SIDE SCALE : NTS 18



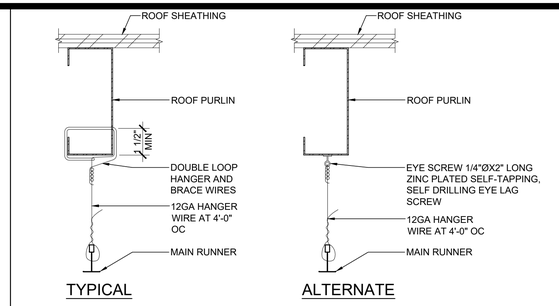

NOTE: NO STABILIZER BARS REQ'D WITH CLIP

NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED

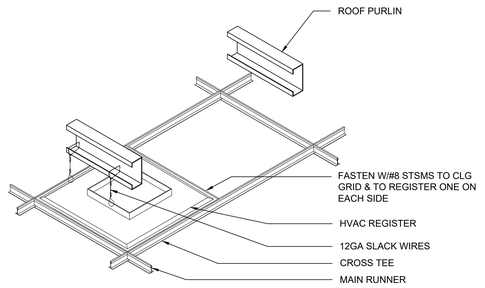
## FREE SIDE SCALE : NTS 19



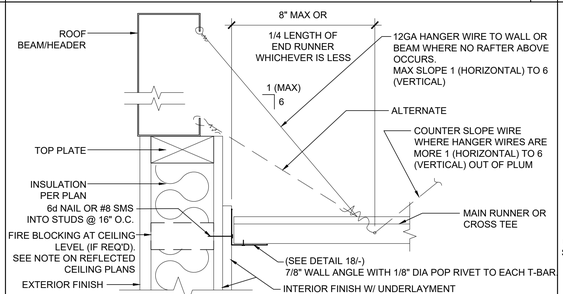

## GRID SEISMIC SEPARATION JOINT SCALE : 3"=1'-0" 20



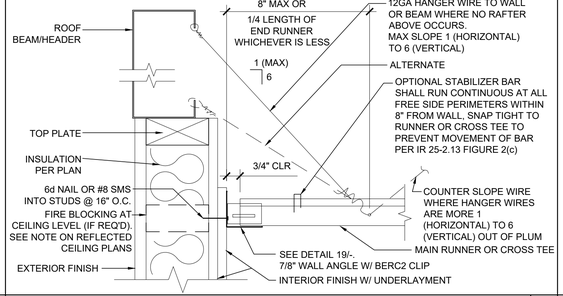

## HANGER WIRE DETAIL SCALE : 3"=1'-0" 11




## HVAC REGISTER MOUNTING SCALE : NTS 12



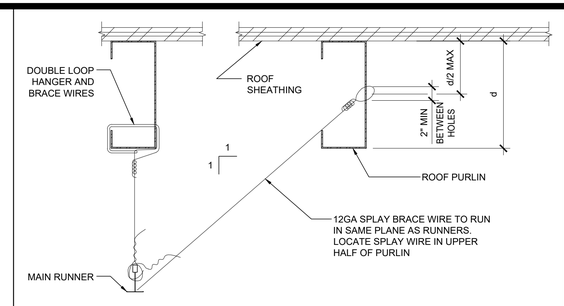

## HANGER WIRE - FIXED SIDE (ENDWALL) SCALE : 3"=1'-0" 13



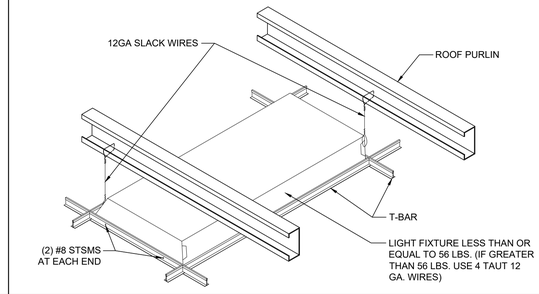

## HANGER WIRE - FREE SIDE (ENDWALL) SCALE : 3"=1'-0" 14



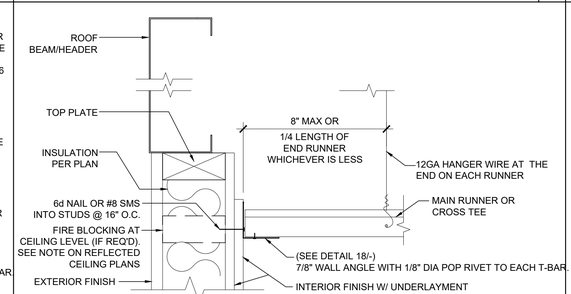

## ATTIC DRAFT STOP SCALE : 3"=1'-0" 15



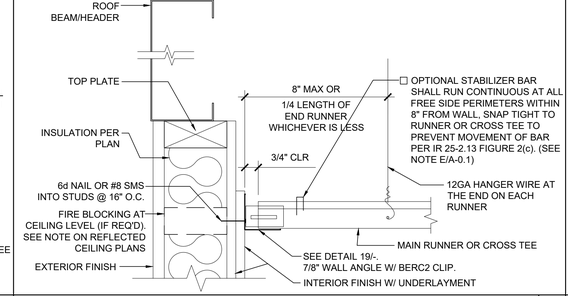

## SPLAY BRACING WIRE SCALE : 3"=1'-0" 6



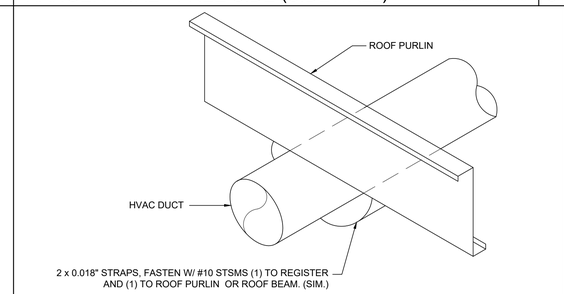

## LIGHT FIXTURE MOUNTING SCALE : NTS 7



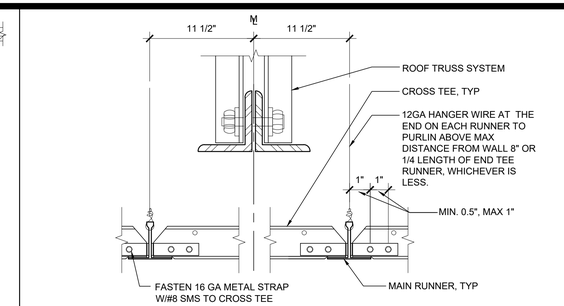

## HANGER WIRE - FIXED SIDE (SIDEWALL) SCALE : 3"=1'-0" 8



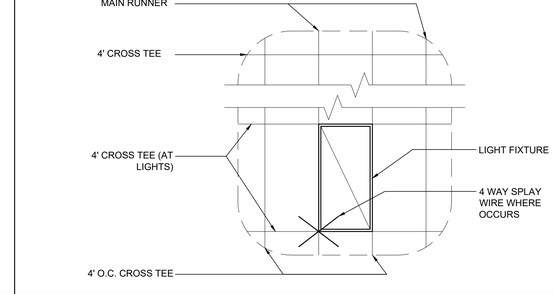

## HANGER WIRE - FREE SIDE (SIDEWALL) SCALE : 3"=1'-0" 9



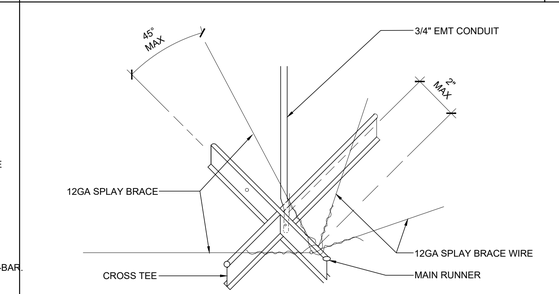

## HVAC DUCTWORK MOUNTING SCALE: NTS 10



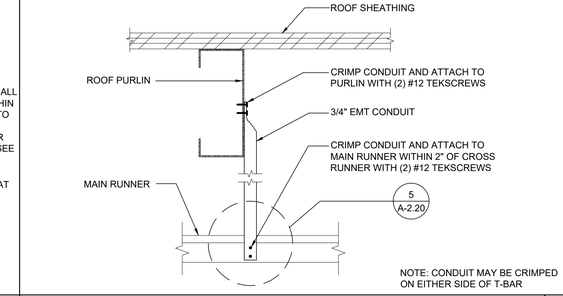

## GRID AT MODLINE SCALE : 3"=1'-0" 1




## 4' CROSS TEE AT LIGHTS SCALE : 3/8"=1'-0" 2

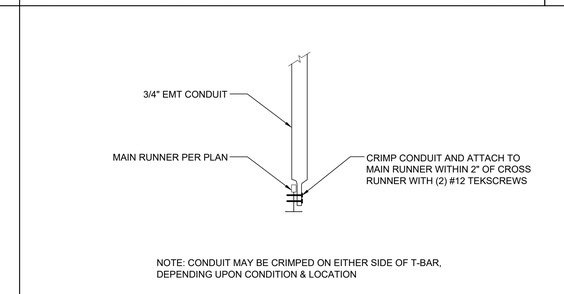



## SEISMIC SPLAY - 4 WAY SCALE : NTS 3




NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

## COMPRESSION STRUT SCALE : 3"=1'-0" 4




NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

## COMPRESSION STRUT SCALE : 3"=1'-0" 5

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PROJECT NAME:

SHEET TITLE:

# CEILING DETAILS
## T-GRID

REVISIONS
02/27/2026 BID SET
2
3
4
5

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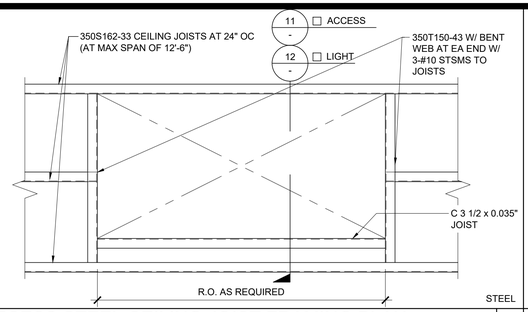
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

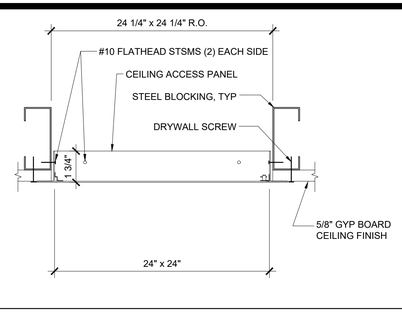
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

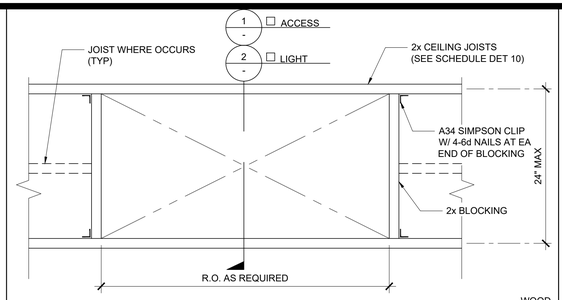
P.C. SHEET NUMBER
A-2.20



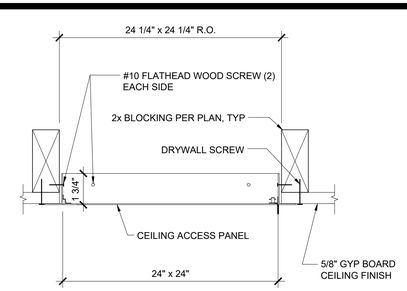

RECESS STEEL CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" | 16




CEILING ACCESS PANEL - STEEL SCALE : 3" = 1'-0" | 11

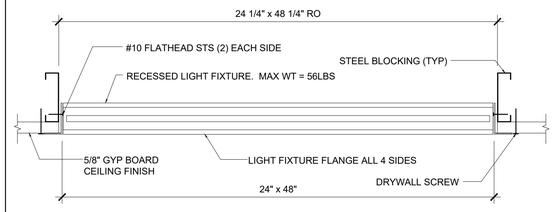



RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" | 6



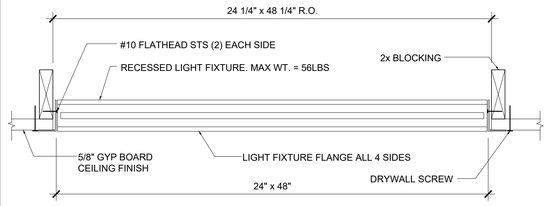

CEILING ACCESS PANEL SCALE : 3" = 1'-0" | 1

NOT USED | 17

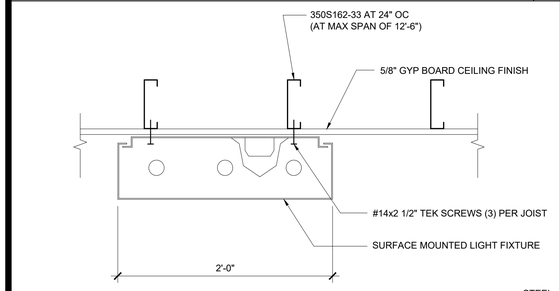



RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" | 12

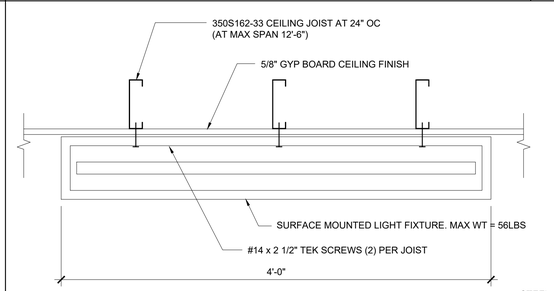
NOT USED | 7



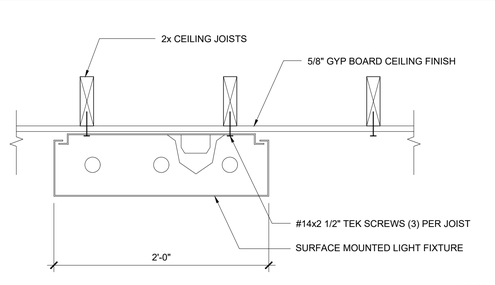

RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" | 2



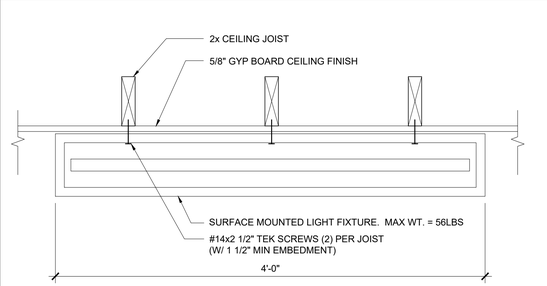

SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" | 18



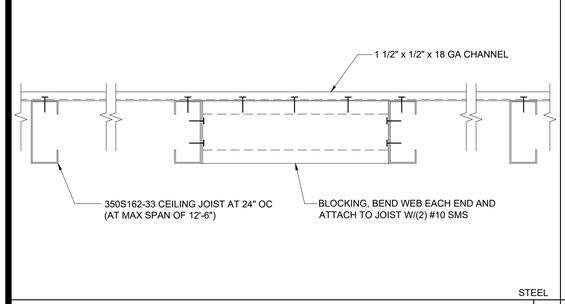

SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" | 13



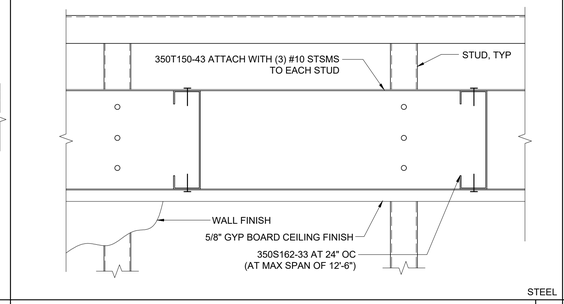

SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" | 8




SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" | 3

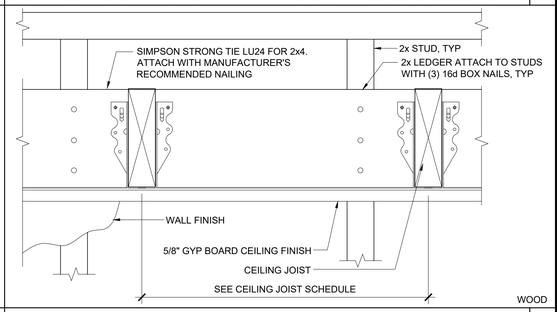



CEILING JOIST BLOCKING - STEEL SCALE : 3" = 1'-0" | 19

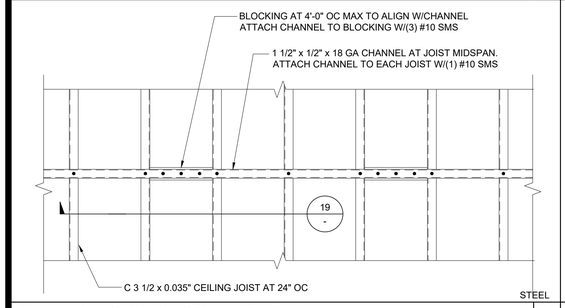



HARD LID CEILING CONNECTION - STEEL SCALE : 3" = 1'-0" | 14

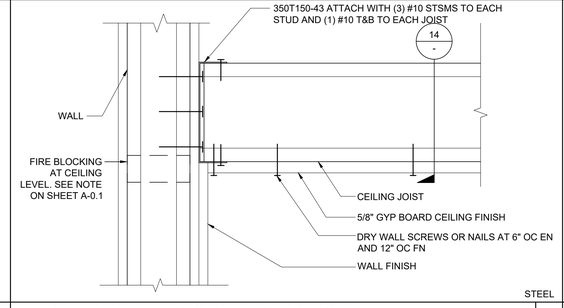
NOT USED | 9




HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" | 4




CEILING JOIST BLOCKING - STEEL SCALE : 1" = 1'-0" | 20

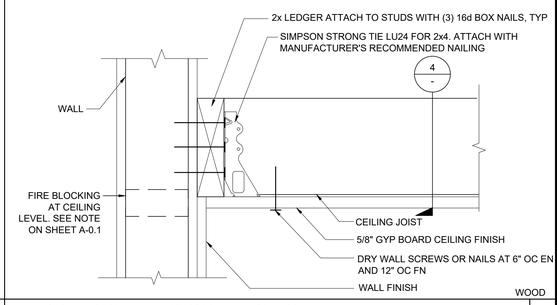



HARD LID CEILING CONNECTION STEEL SCALE : 3" = 1'-0" | 15

2X4 JOIST TABLE - MAX SPAN

| SPACING | HEMFIR STUD | HEMFIR NO 2 | HEMFIR NO 1 | DFL STUD | DFL NO. 2 |
|---|---|---|---|---|---|
| 12" OC | 11' - 3" | 11' - 7" | 12' - 2" | 11' - 10" | 12' - 5" |
| 16" OC | 10' - 3" | 10' - 6" | 11' - 0" | 10' - 9" | 11' - 3" |
| 24" OC | 8' - 11" | 9' - 2" | 9' - 8" | 9' - 5" | 9' - 10" |
| | | | | | |

WOOD CEILING JOIST SCHEDULE SCALE : NTS | 10




HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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PROJECT NAME:

SHEET TITLE:

# CEILING DETAILS
## HARD LID

REVISIONS
02/27/2026 BID SET
1
2
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5

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

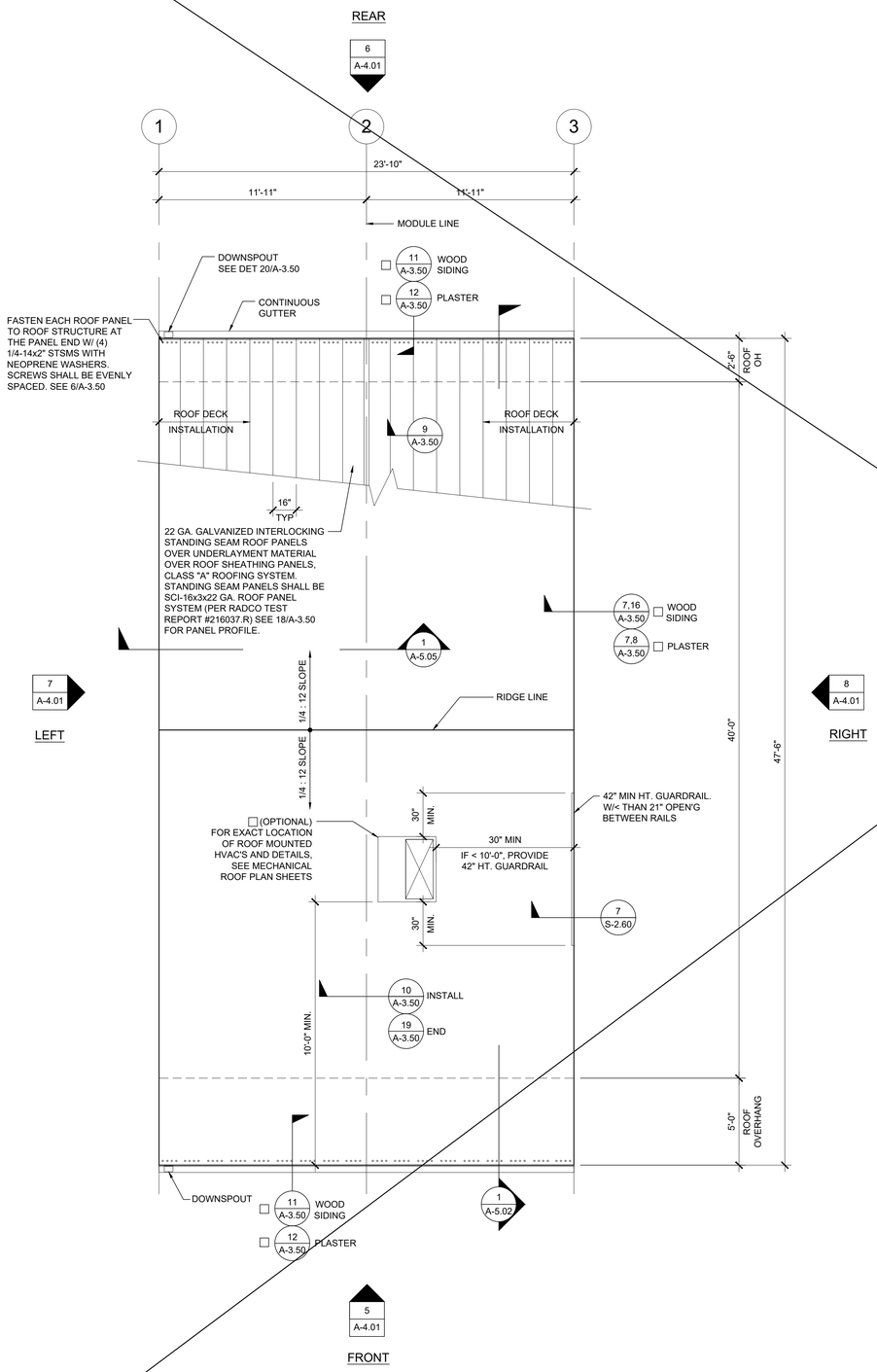
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

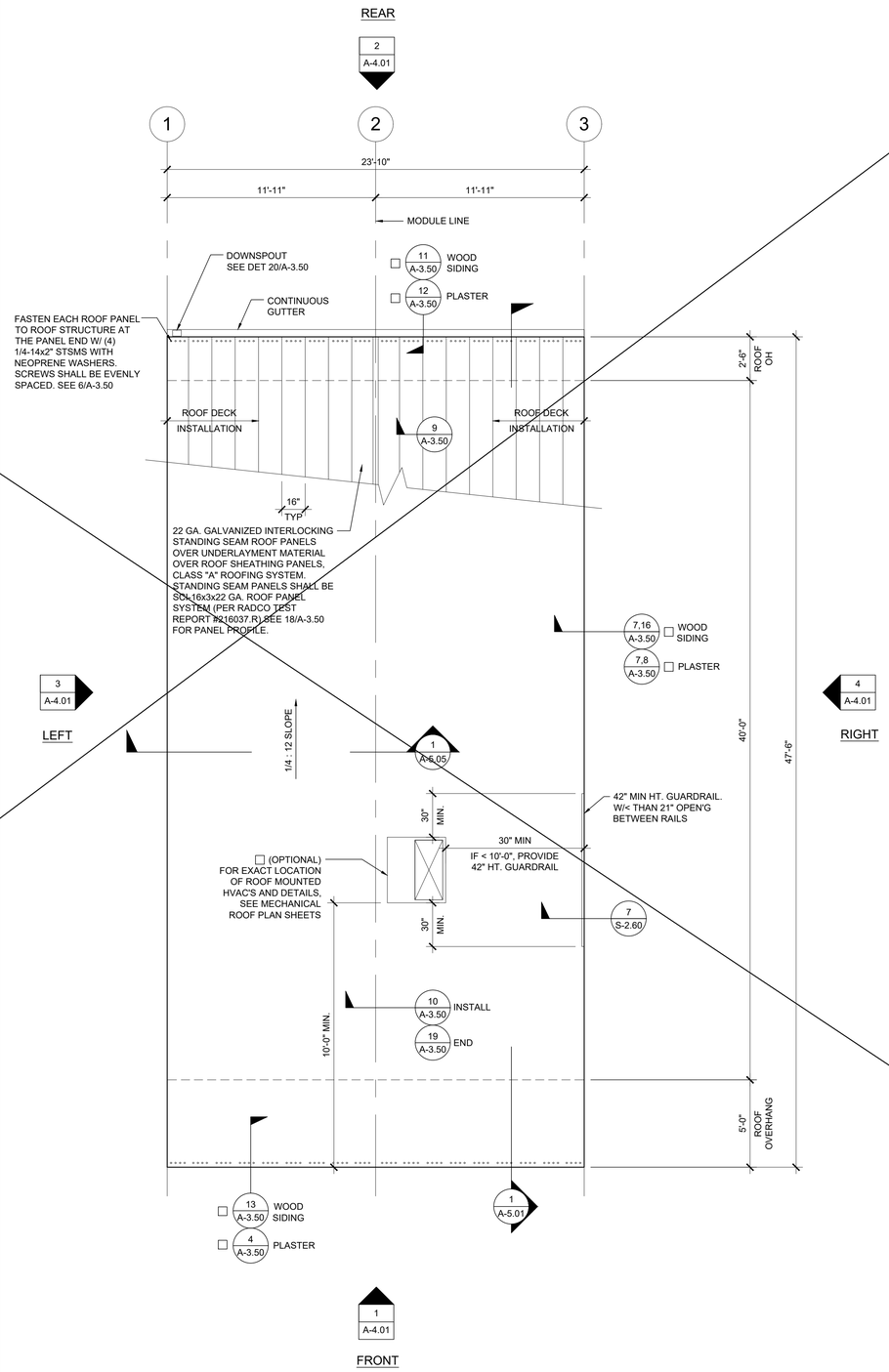
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-2.21




## ROOF PLAN - METAL DECK - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2



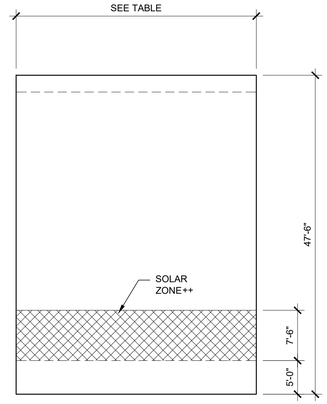

## ROOF PLAN - METAL DECK - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60
4. SEE DETAIL "A" (THIS SHEET) FOR ROOF SYSTEM UPLIFT CAPACITY

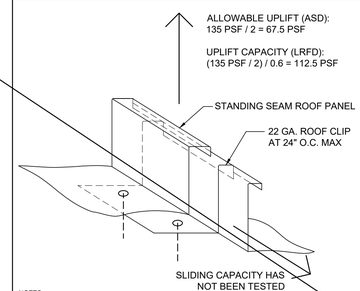
## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
| 108'-0" x 40'-0" | 774 SF | 801 SF |
| 120'-0" x 40'-0" | 860 SF | 890 SF |
| ROOF AREA PER MODULE | = | 567 SF |
| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.




NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021

2. THE ULTIMATE LOAD DETERMINED BY TESTING = 135 PSF.
   A SAFETY FACTOR OF 2.0 HAS BEEN USED IN CALCULATING THE ALLOWABLE VALUES.
3. PV PANEL ATTACHMENT OPTION IS NOT INCLUDED WITHIN THIS PC.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF PV PANELS ARE INSTALLED THE SLIDING CAPACITY OF THE ROOF PANEL SYSTEM MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES OF NOT LESS THAN 7 DEGREES.
   EXCEPTION: WHERE THE SLIDING LOAD FOR SEISMIC AND WIND FORCES ON THE PV PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER DSA IR 16-8 (SECTION 5.1.1.2).
5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) IS BASED ON ASD WIND PRESSURE = 0.6 x (LFRD WIND PRESSURE).

## ROOF SYSTEM CAPACITY

SCALE: NTS | A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 24'x40' - METAL DECK
## MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

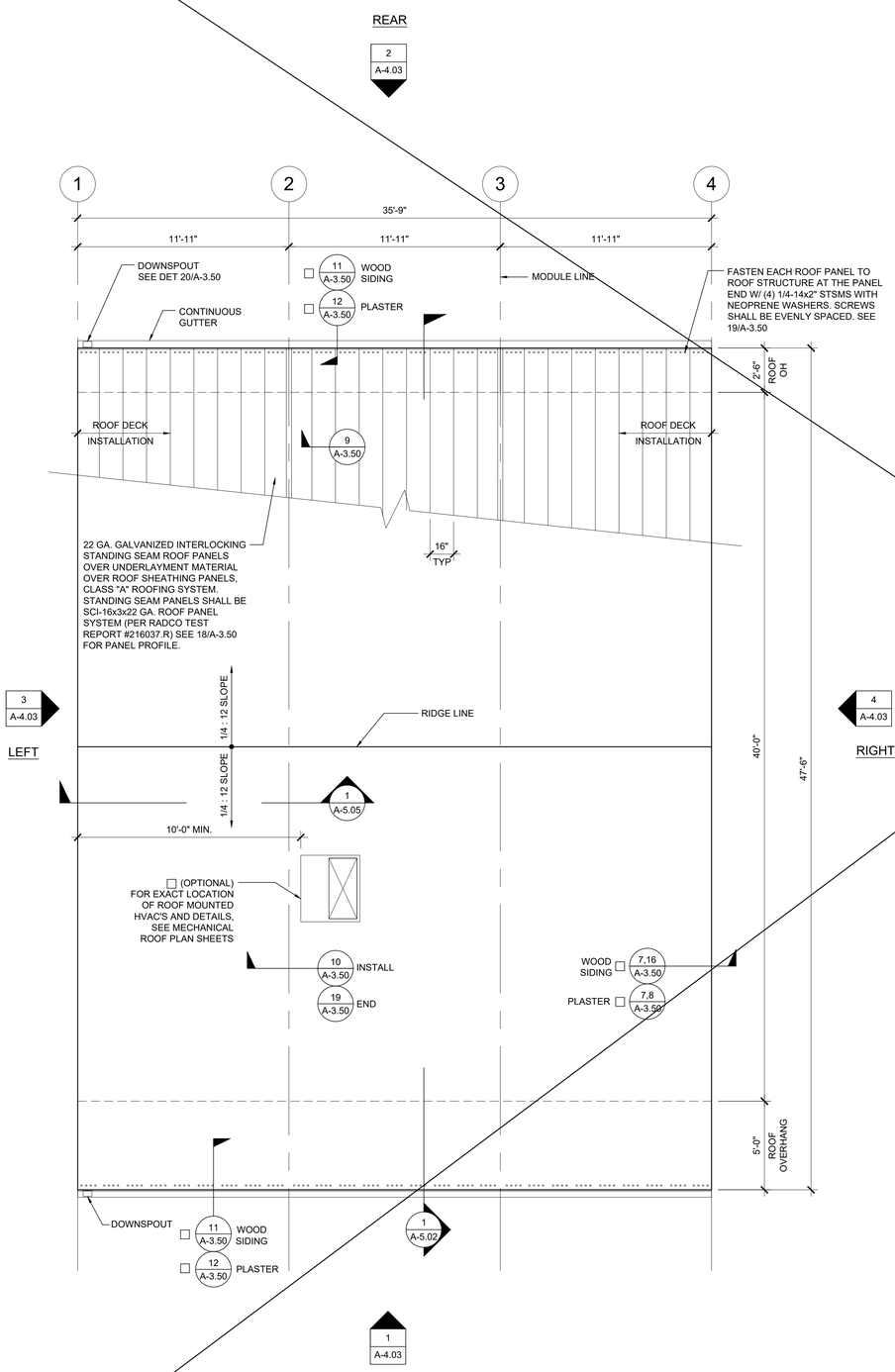
REGISTERED PROFESSIONAL ENGINEER JOHN W STARUCH 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

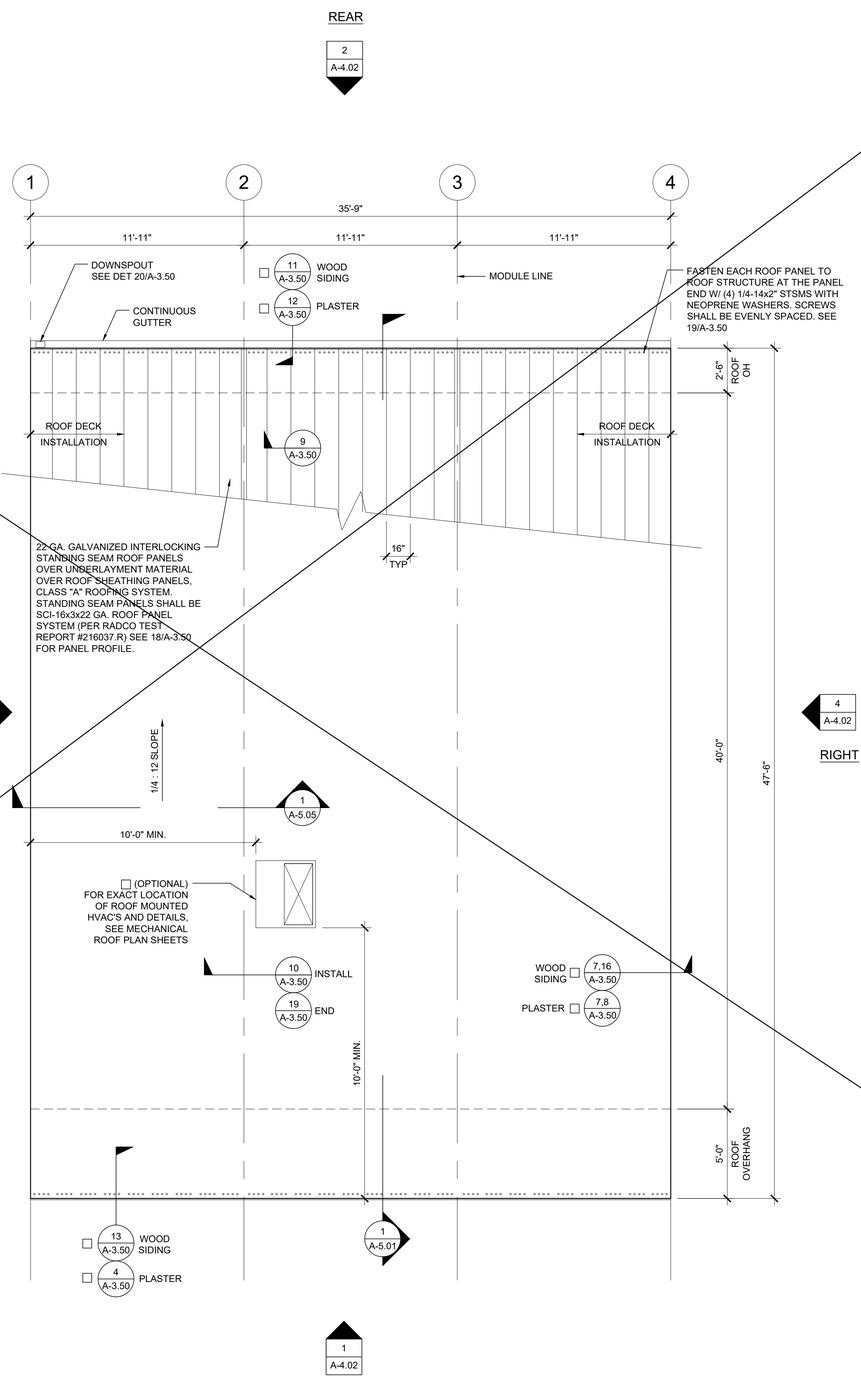
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-3.01




ROOF PLAN - METAL DECK - DUAL SLOPE SCALE: 1/4" = 1' - 0" 2

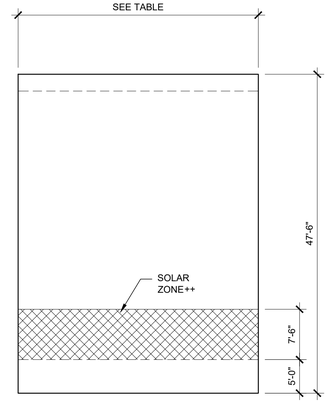



ROOF PLAN - METAL DECK - MONO SLOPE SCALE: 1/4" = 1' - 0" 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60
4. SEE DETAIL "A" (THIS SHEET) FOR ROOF SYSTEM UPLIFT CAPACITY

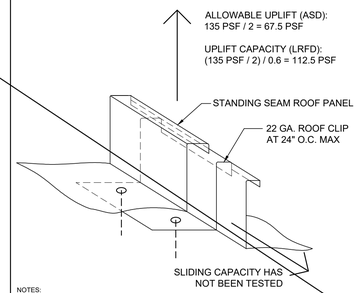
## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
| 108'-0" x 40'-0" | 774 SF | 801 SF |
| 120'-0" x 40'-0" | 860 SF | 890 SF |
| ROOF AREA PER MODULE | = | 567 SF |
| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.




NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021

2. THE ULTIMATE LOAD DETERMINED BY TESTING = 135 PSF.
   A SAFETY FACTOR OF 2.0 HAS BEEN USED IN CALCULATING THE ALLOWABLE VALUES.
3. PV PANEL ATTACHMENT OPTION IS NOT INCLUDED WITHIN THIS PC.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF PV PANELS ARE INSTALLED THE SLIDING CAPACITY OF THE ROOF PANEL SYSTEM MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES OF NOT LESS THAN 7 DEGREES.
   EXCEPTION: WHERE THE SLIDING LOAD FOR SEISMIC AND WIND FORCES ON THE PV PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER DSA IR 16-8 (SECTION 5.1.1.2).
5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) IS BASED ON ASD WIND PRESSURE = 0.6 x (LFRD WIND PRESSURE).

ROOF SYSTEM CAPACITY SCALE: NTS A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 36' x 40' - METAL DECK
## MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

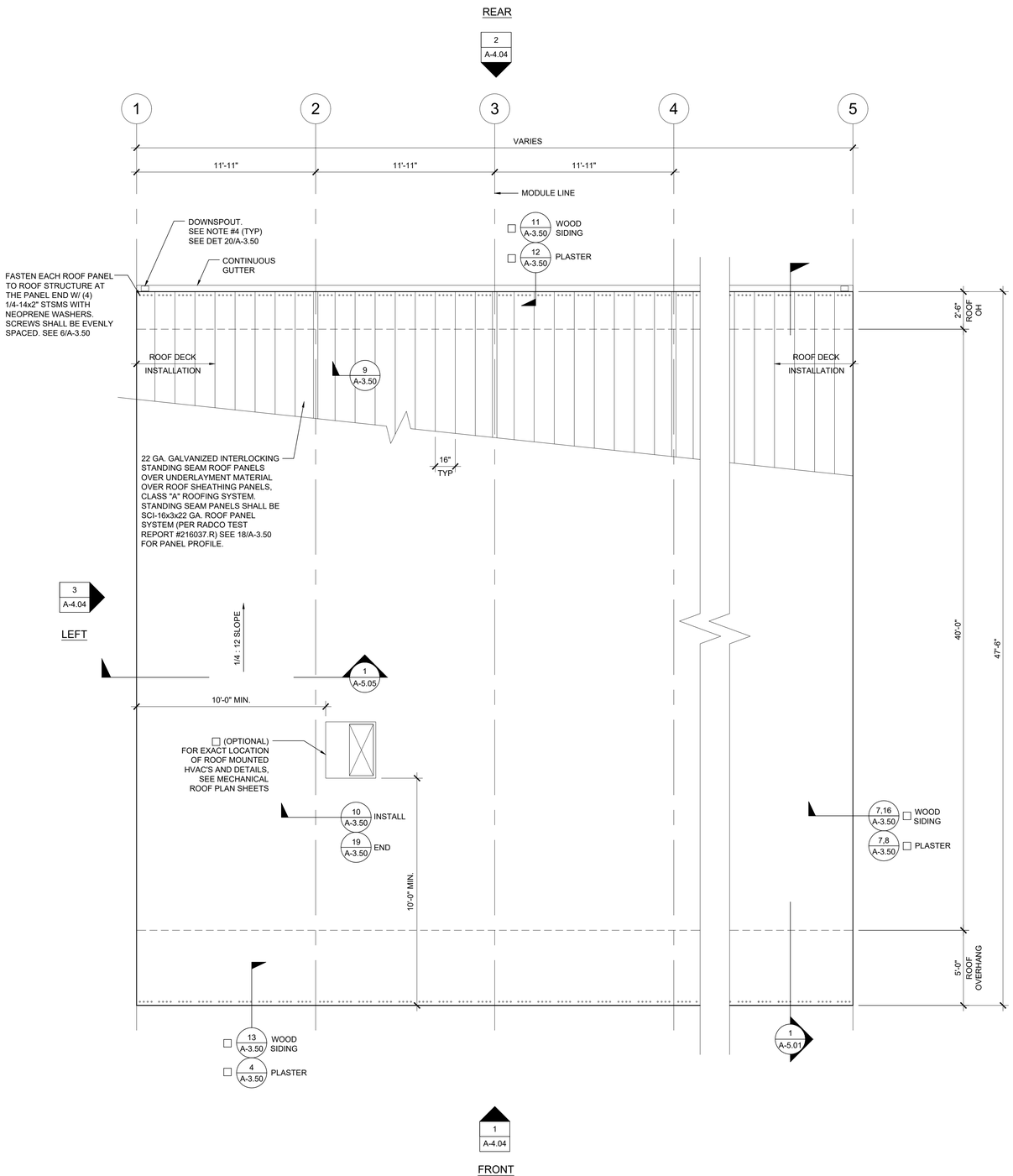
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

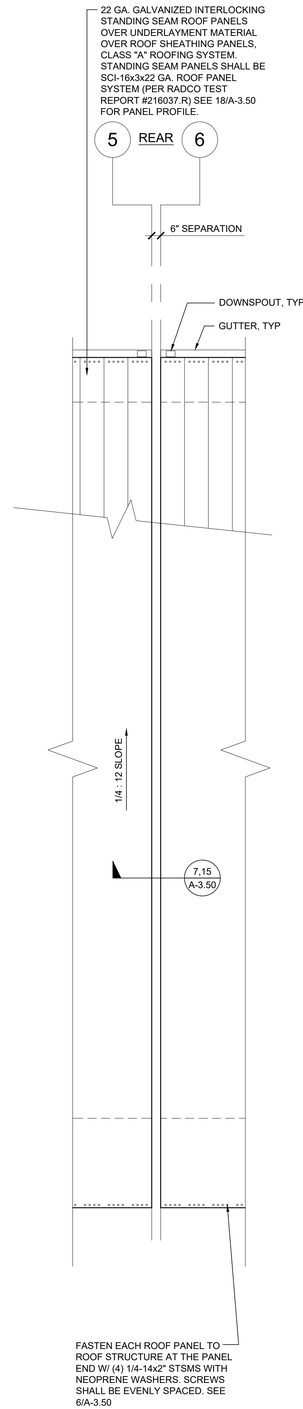
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.02




ROOF PLAN - METAL DECK - MONO SLOPE SCALE: 1/4" = 1' - 0" 2

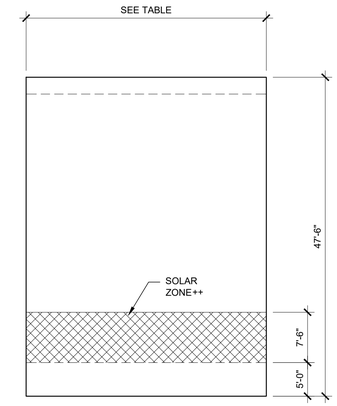



ROOF SEP. PLAN OPTION SCALE: 1/4" = 1' - 0" 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60
4. SEE DETAIL "A" (THIS SHEET) FOR ROOF SYSTEM UPLIFT CAPACITY

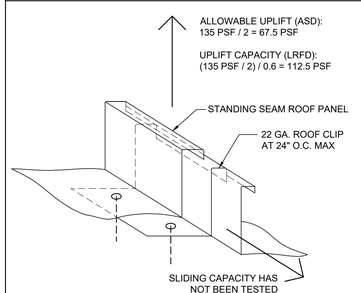
## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
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| 120'-0" x 40'-0" | 860 SF | 890 SF |
| ROOF AREA PER MODULE | = | 567 SF |
| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.




NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021

2. THE ULTIMATE LOAD DETERMINED BY TESTING = 135 PSF.
   A SAFETY FACTOR OF 2.0 HAS BEEN USED IN CALCULATING THE ALLOWABLE VALUES.
3. PV PANEL ATTACHMENT OPTION IS NOT INCLUDED WITHIN THIS PC.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF PV PANELS ARE INSTALLED THE SLIDING CAPACITY OF THE ROOF PANEL SYSTEM MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES OF NOT LESS THAN 7 DEGREES.
   EXCEPTION: WHERE THE SLIDING LOAD FOR SEISMIC AND WIND FORCES ON THE PV PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER DSA IR 16-8 (SECTION 5.1.1.2).
5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) IS BASED ON ASD WIND PRESSURE = 0.6 x (LFRD WIND PRESSURE).

ROOF SYSTEM CAPACITY SCALE: NTS A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 48' TO 120' x 40'
## METAL DECK - MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

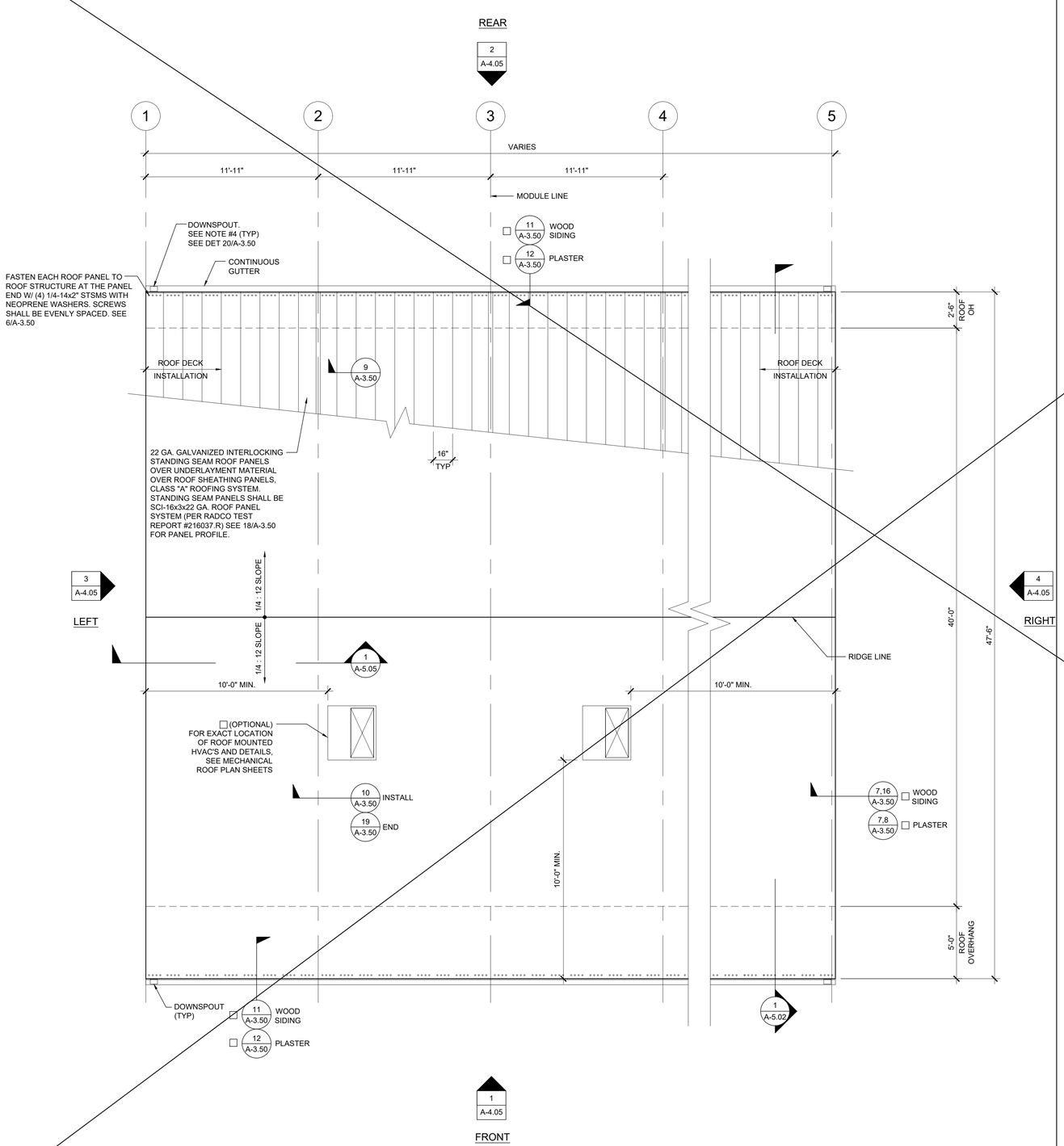
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

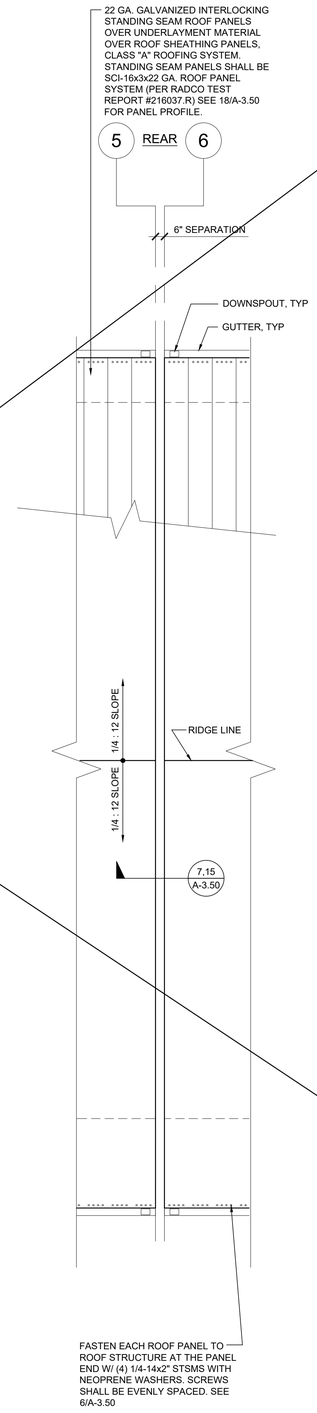
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.03




## ROOF PLAN - METAL DECK - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2



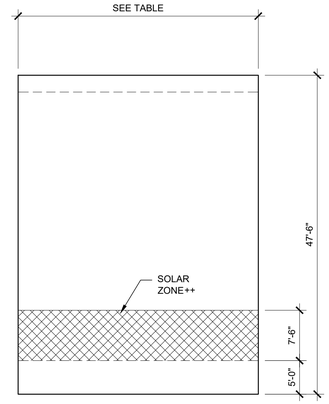

## ROOF SEP. PLAN OPTION

SCALE: 1/4" = 1' - 0" | 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
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4. SEE DETAIL "A" (THIS SHEET) FOR ROOF SYSTEM UPLIFT CAPACITY

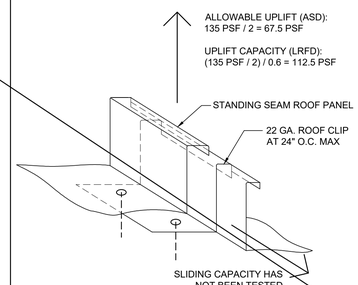
## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
| 108'-0" x 40'-0" | 774 SF | 801 SF |
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| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

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NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021
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## ROOF SYSTEM CAPACITY

SCALE: NTS | A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 48' TO 120' x 40'
## METAL DECK - DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

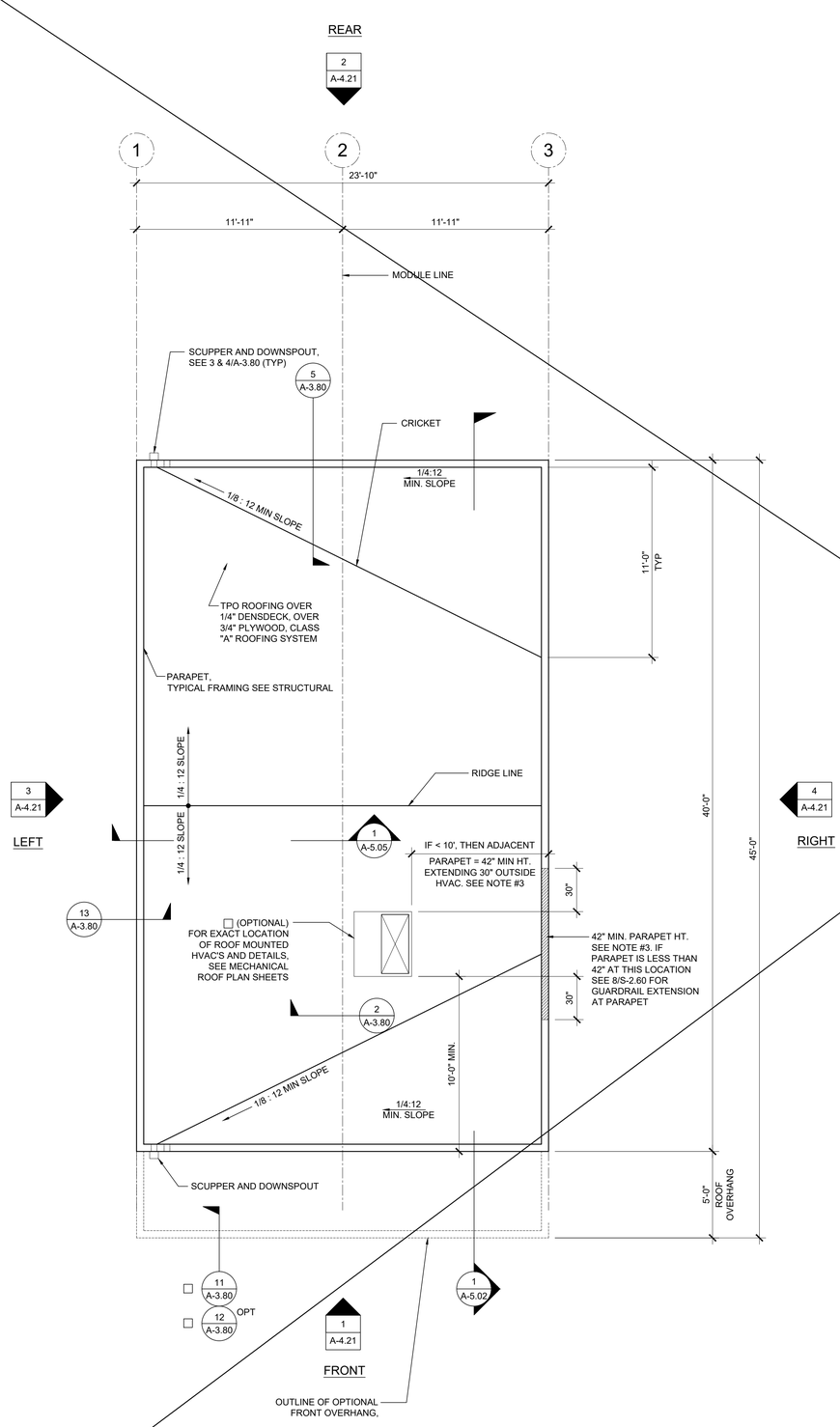
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24078 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

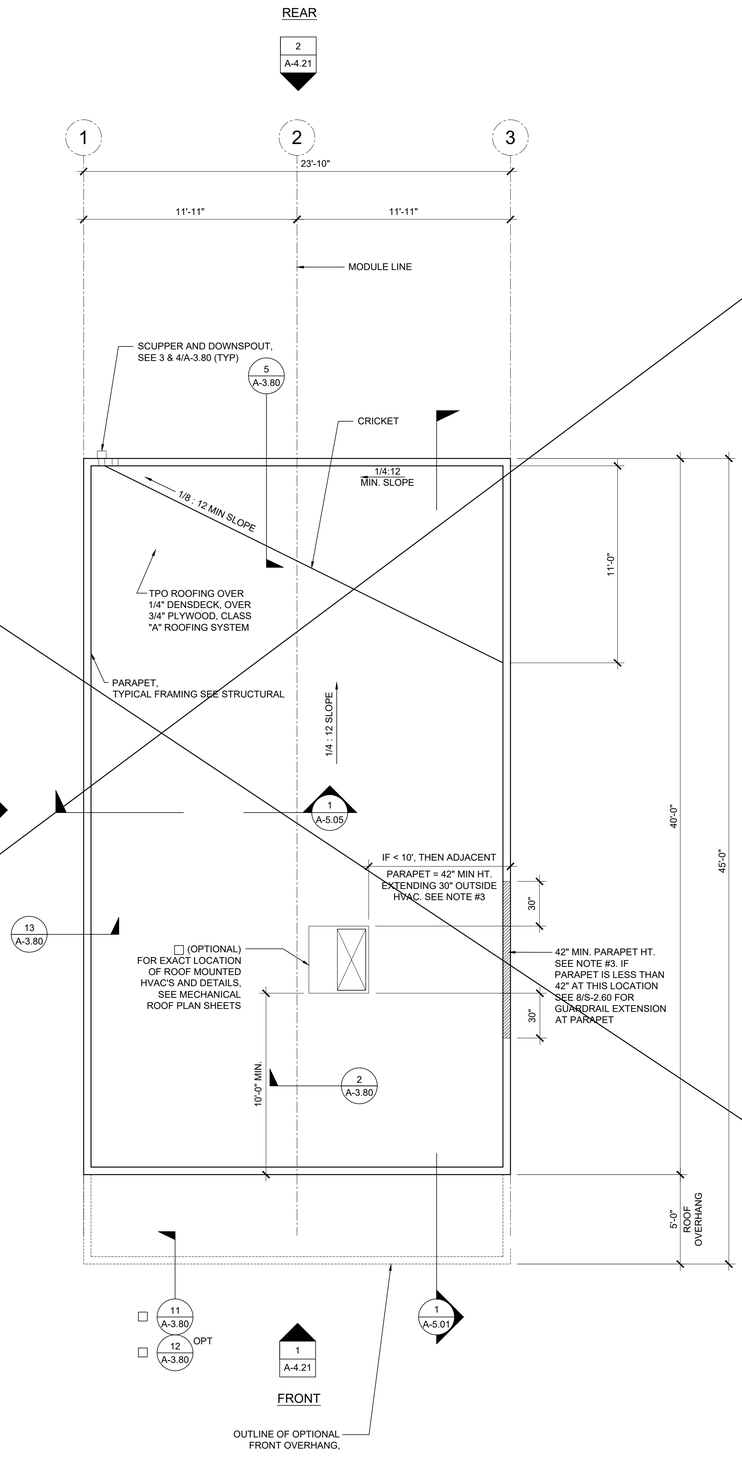
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER
A-3.04




NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C. UP TO A MAX PARAPET OF 48"

ROOF PLAN - PARAPET - DUAL SLOPE — SCALE: 1/4" = 1' - 0" — 2



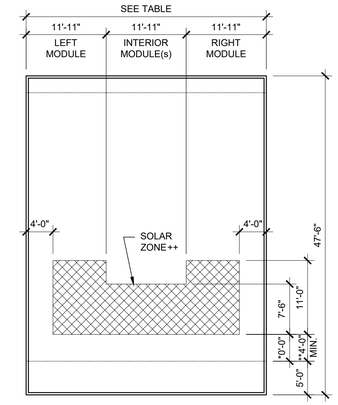

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C. UP TO A MAX PARAPET OF 48"

ROOF PLAN - PARAPET - MONO SLOPE — SCALE: 1/4" = 1' - 0" — 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60

## SOLAR ZONE




KEYPLAN
(w/ PARAPET)

* w/ OVERHANG
** w/o OVERHANG

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
| 108'-0" x 40'-0" | 774 SF | 801 SF |
| 120'-0" x 40'-0" | 860 SF | 890 SF |
| ROOF AREA PER MODULE | = | 567 SF |
| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 24'x40' - PARAPET ROOF MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

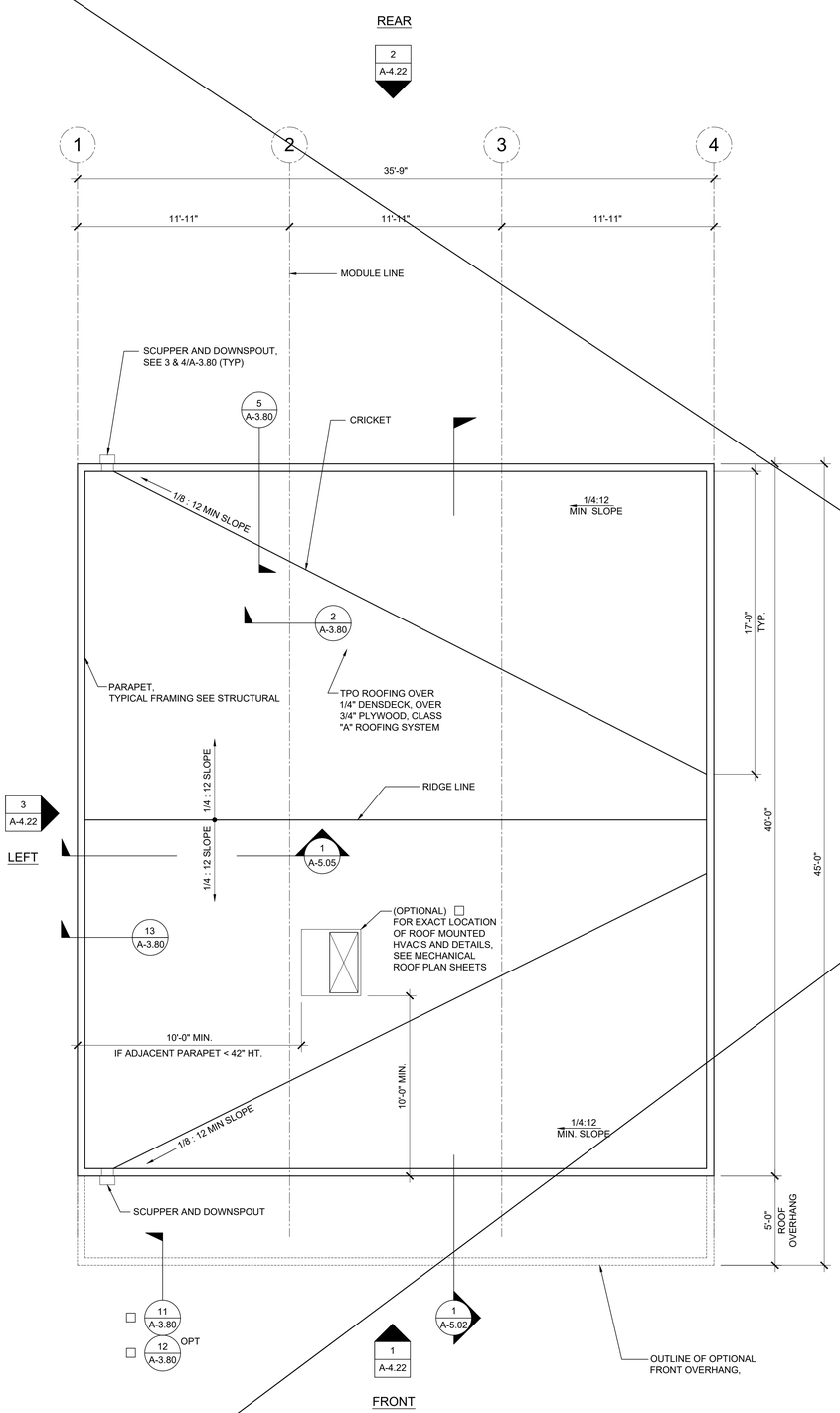
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

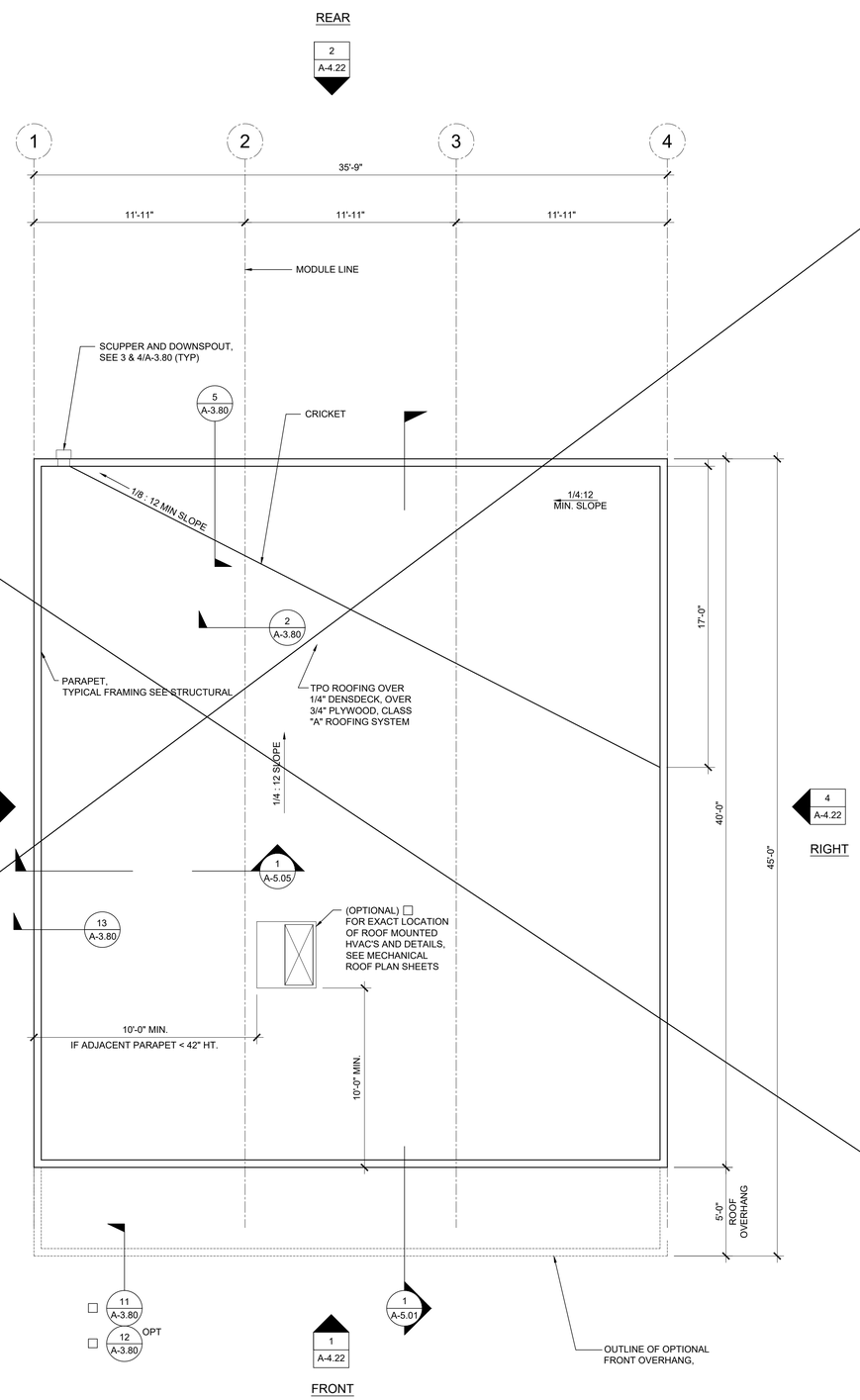
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.31




NOTE:
IF PARAPET IS USED & HIGHER THAN 18",
END WALLS MUST BE 2x6 @ 24" O.C. UP
TO A MAX PARAPET OF 48"

ROOF PLAN - PARAPET - DUAL SLOPE SCALE: 1/4" = 1' - 0" 2



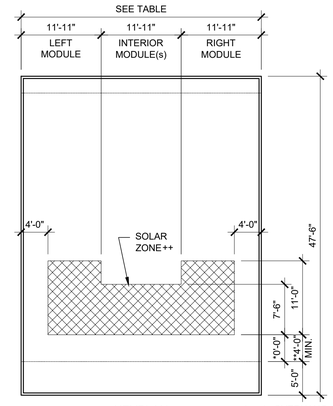

NOTE:
IF PARAPET IS USED & HIGHER THAN 18",
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TO A MAX PARAPET OF 48"

ROOF PLAN - PARAPET - MONO SLOPE SCALE: 1/4" = 1' - 0" 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60

## SOLAR ZONE




KEYPLAN
(w/ PARAPET)

* w/ OVERHANG
** w/o OVERHANG

SOLAR ZONE CALCULATION TABLE

| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
|---|---|---|
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
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| 108'-0" x 40'-0" | 774 SF | 801 SF |
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| PROVIDED SOLAR ZONE | = | 89 SF |

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 36' x 40' - PARAPET
## MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

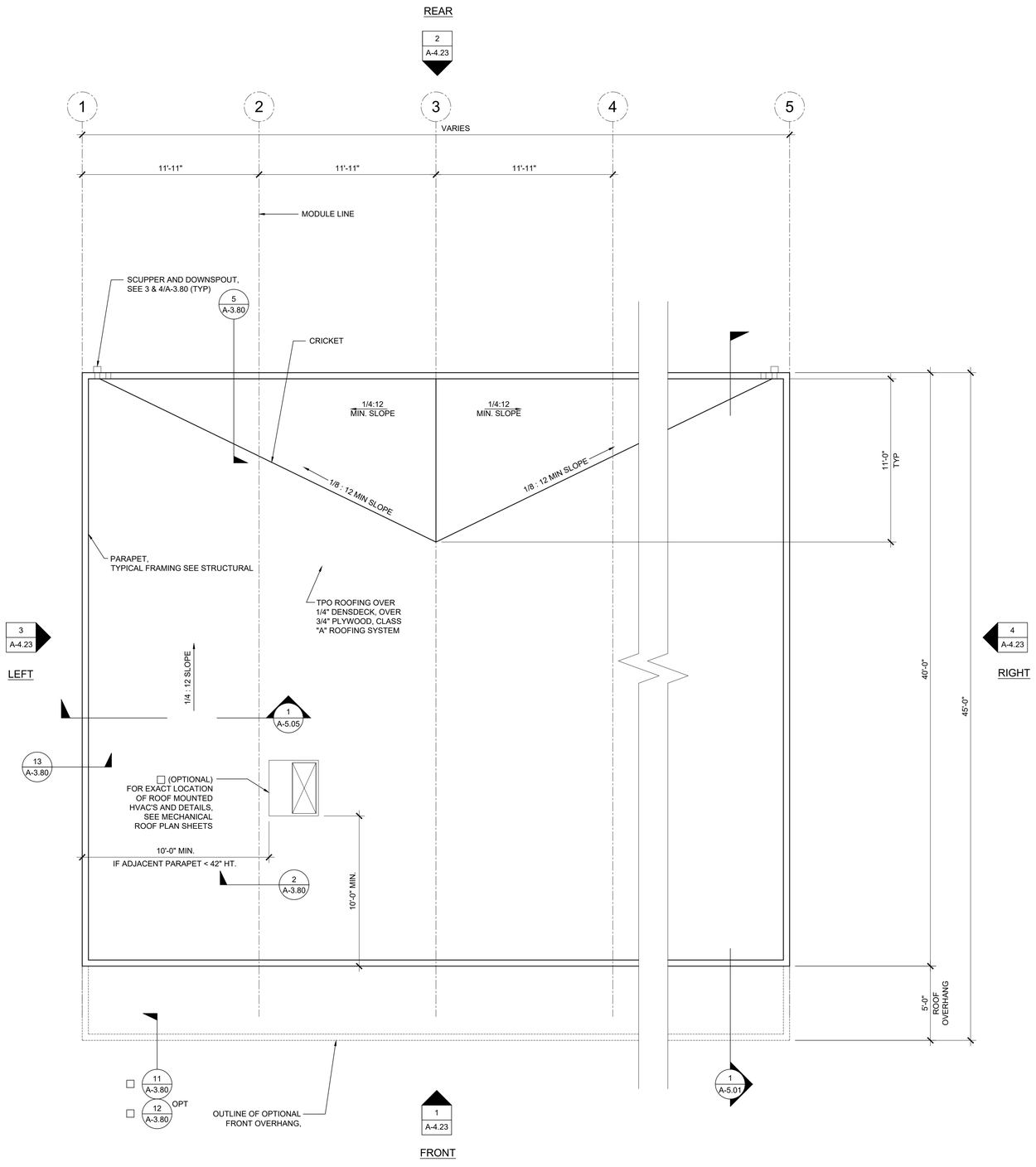
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
29757
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

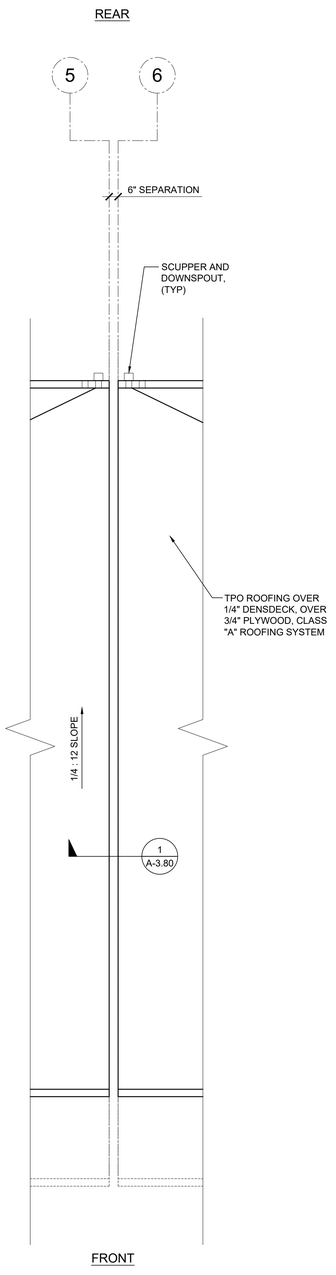
P.C. SHEET NUMBER

A-3.32




NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C. UP TO A MAX PARAPET OF 48"

ROOF PLAN - PARAPET - MONO SLOPE SCALE: 1/4" = 1' - 0" 2

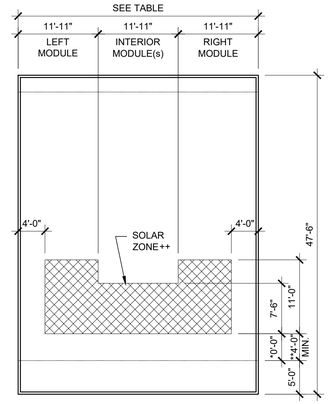



ROOF SEP PLAN OPTION SCALE: 1/4" = 1' - 0" 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
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## SOLAR ZONE




KEYPLAN
(w/ PARAPET)

* w/ OVERHANG
** w/o OVERHANG

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
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| 48'-0" x 40'-0" | 344 SF | 356 SF |
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| 72'-0" x 40'-0" | 516 SF | 534 SF |
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| 108'-0" x 40'-0" | 774 SF | 801 SF |
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| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 48' to 120' x 40' - PARAPET MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

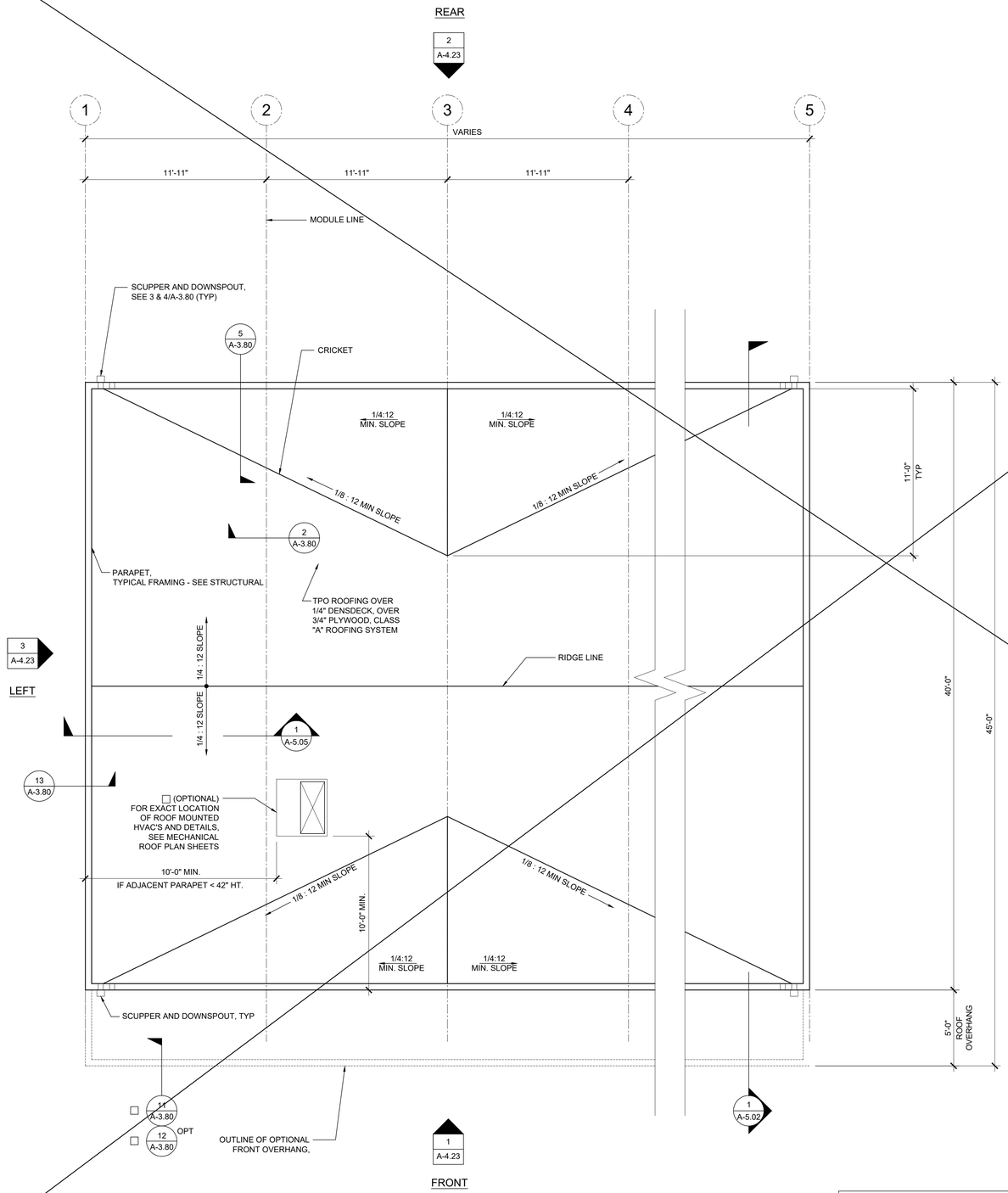
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2977 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

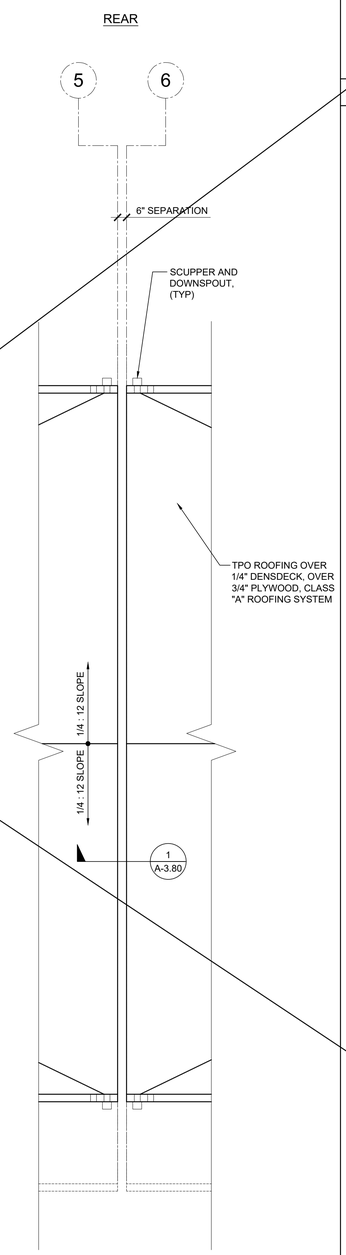
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.33




NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C. UP TO A MAX PARAPET OF 48"

ROOF PLAN - PARAPET - DUAL SLOPE SCALE: 1/4" = 1'-0" 2

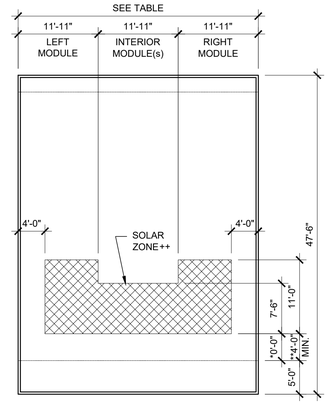



ROOF SEP PLAN OPTION SCALE: 1/4" = 1'-0" 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
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## SOLAR ZONE




KEYPLAN
(w/ PARAPET)

* w/ OVERHANG
** w/o OVERHANG

SOLAR ZONE CALCULATION TABLE

| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
|---|---|---|
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
| 108'-0" x 40'-0" | 774 SF | 801 SF |
| 120'-0" x 40'-0" | 860 SF | 890 SF |
| ROOF AREA PER MODULE | = | 567 SF |
| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 48' to 120' x 40' - PARAPET DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

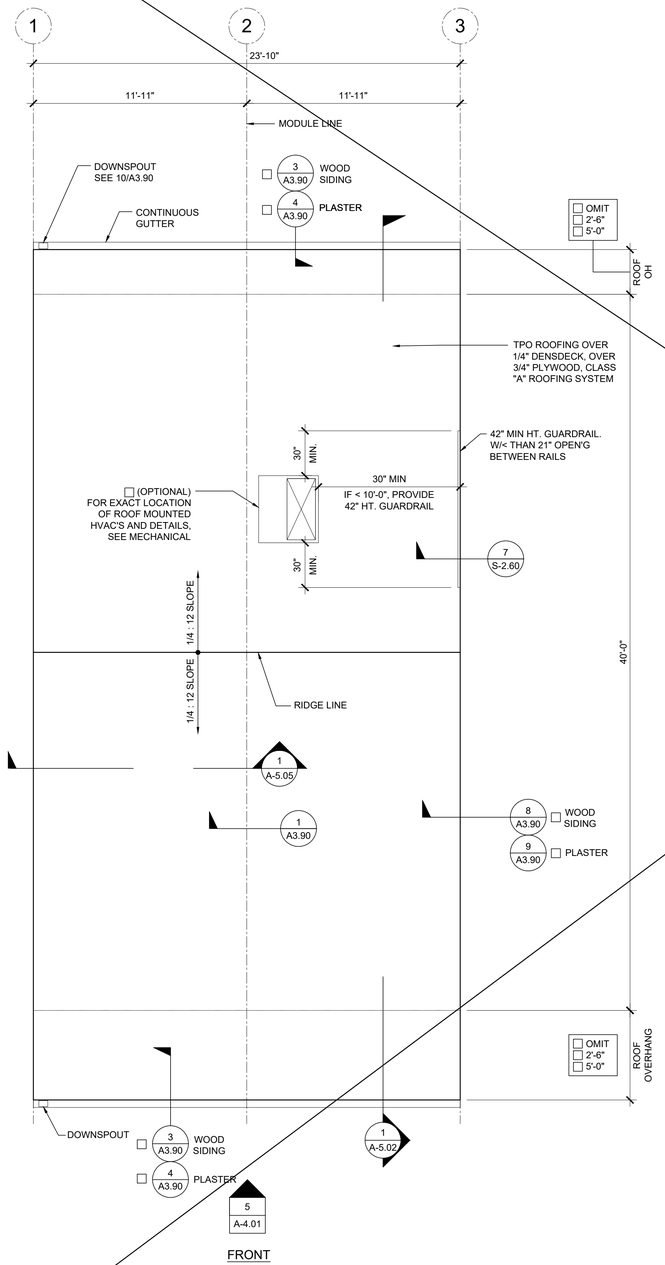
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.34

REAR

6 A-4.01




7 A-4.01 LEFT

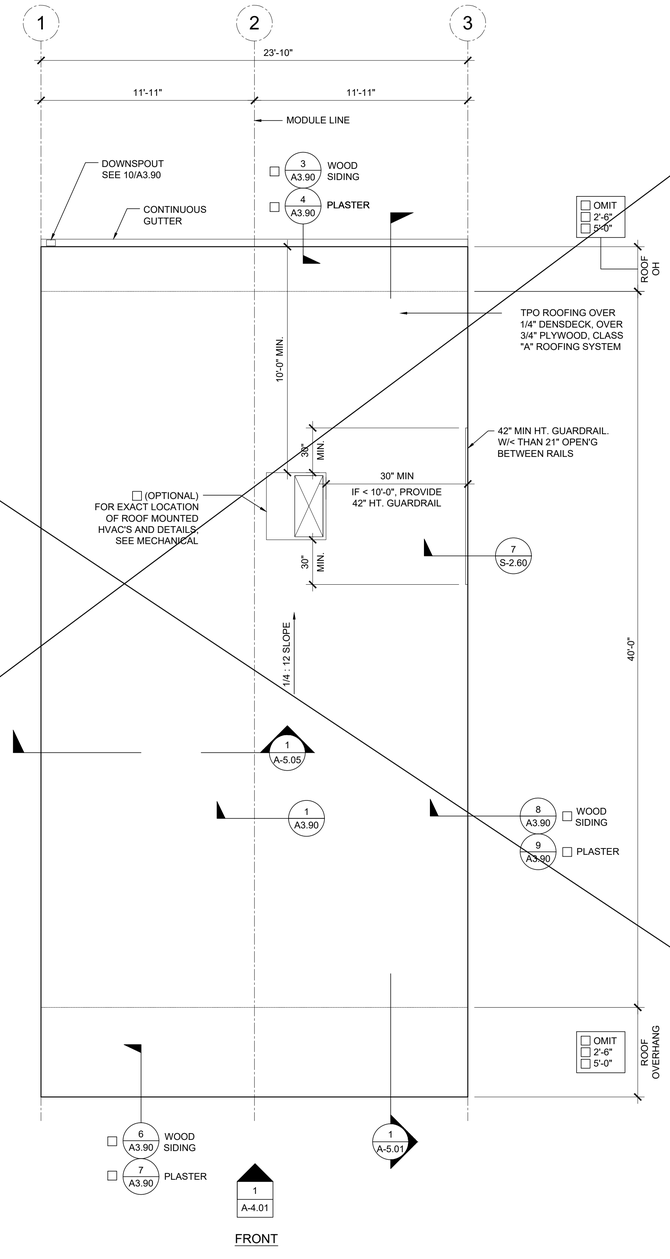
8 A-4.01 RIGHT

FRONT

ROOF PLAN - TPO - DUAL SLOPE SCALE: 1/4" = 1' - 0" 2

REAR

2 A-4.01




3 A-4.01 LEFT

4 A-4.01 RIGHT

1 A-4.01

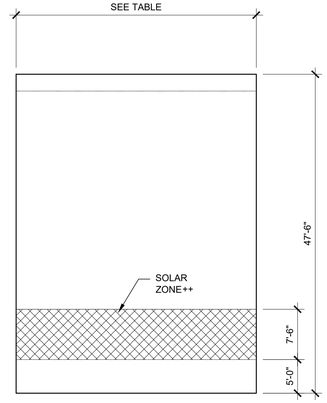
FRONT

ROOF PLAN - TPO - MONO SLOPE SCALE: 1/4" = 1' - 0" 1

## NOTES

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## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
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| 84'-0" x 40'-0" | 602 SF | 623 SF |
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| 108'-0" x 40'-0" | 774 SF | 801 SF |
| 120'-0" x 40'-0" | 860 SF | 890 SF |
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 24'x40' - TPO ROOF
## MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

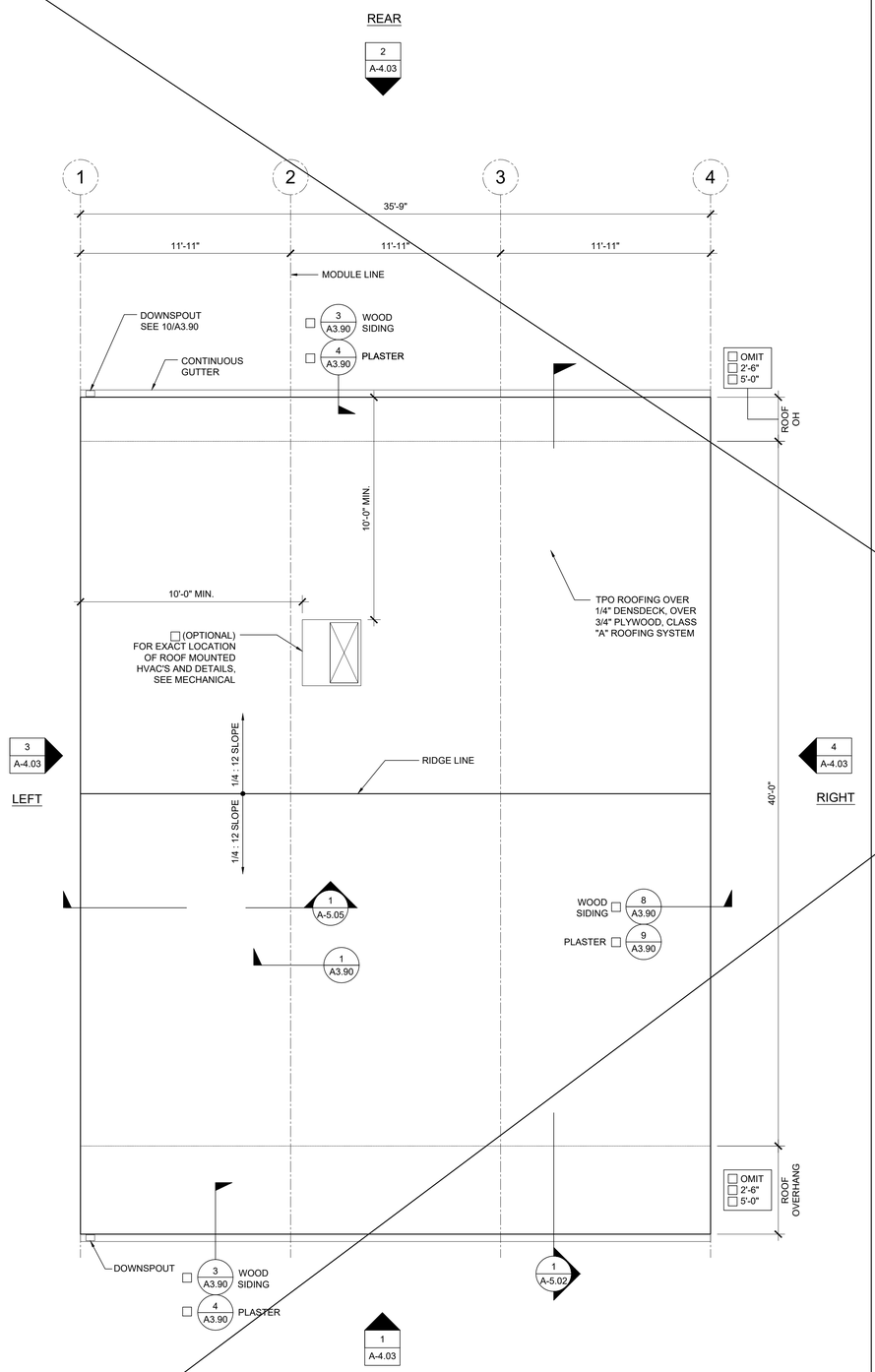
REGISTERED PROFESSIONAL ENGINEER JOHN W STARUP 24575 STRUCTURAL STATE OF CALIFORNIA

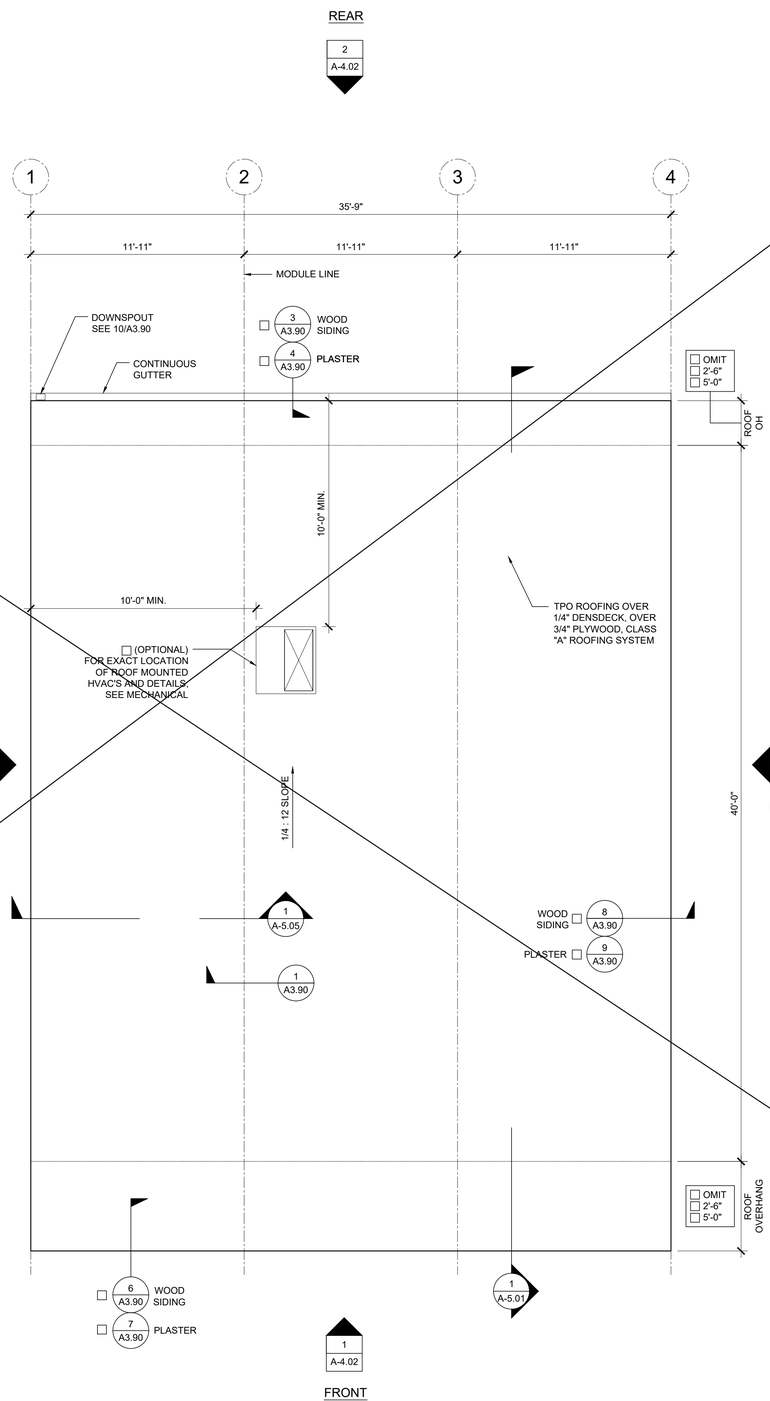
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-3.41



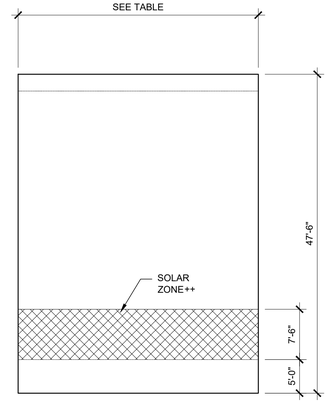

ROOF PLAN - TPO - DUAL SLOPE — SCALE: 1/4" = 1'-0" — 2

ROOF PLAN - TPO - MONO SLOPE — SCALE: 1/4" = 1'-0" — 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60

## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
| 36'-0" x 40'-0" | 258 SF | 267 SF |
| 48'-0" x 40'-0" | 344 SF | 356 SF |
| 60'-0" x 40'-0" | 430 SF | 445 SF |
| 72'-0" x 40'-0" | 516 SF | 534 SF |
| 84'-0" x 40'-0" | 602 SF | 623 SF |
| 96'-0" x 40'-0" | 688 SF | 712 SF |
| 108'-0" x 40'-0" | 774 SF | 801 SF |
| 120'-0" x 40'-0" | 860 SF | 890 SF |
| ROOF AREA PER MODULE | = | 567 SF |
| REQUIRED SOLAR ZONE | = | 86 SF |
| PROVIDED SOLAR ZONE | = | 89 SF |

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 36' x 40' - TPO ROOF
## MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

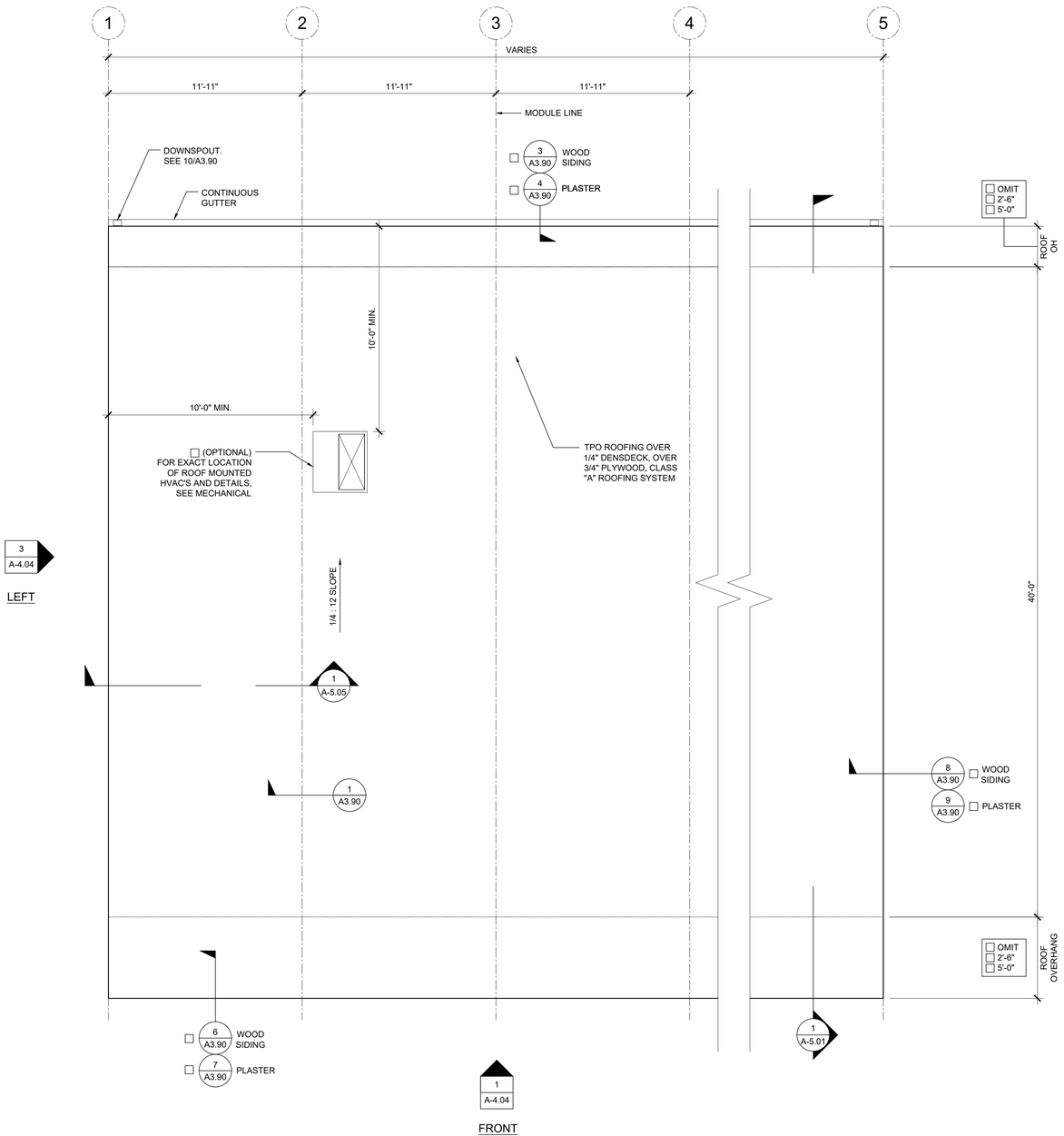
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

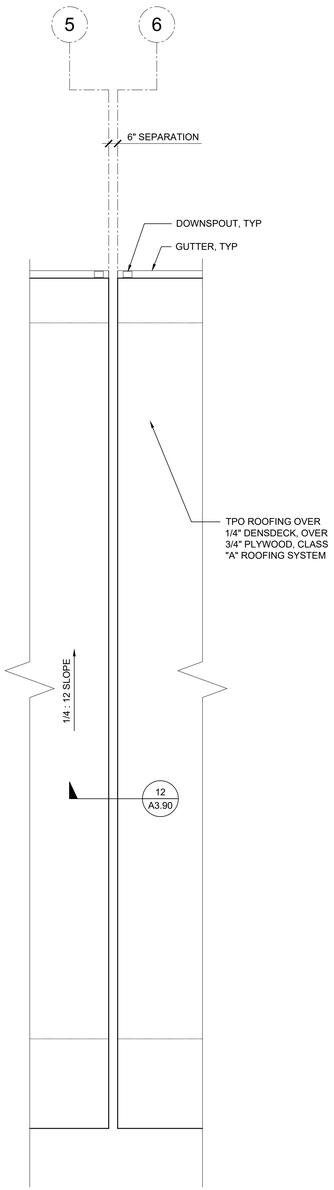
P.C. SHEET NUMBER
A-3.42

REAR




ROOF PLAN - TPO - MONO SLOPE SCALE: 1/4" = 1' - 0" 2

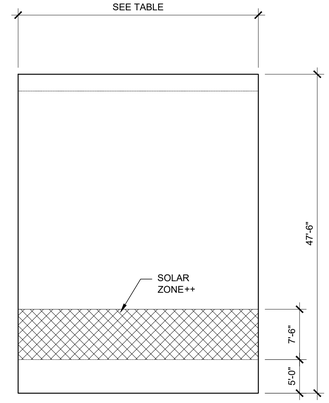
REAR




ROOF SEP. PLAN OPTION SCALE: 1/4" = 1' - 0" 1

## NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
2. PROVIDE ADDITIONAL JOIST FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S-2.50 OR 14 / S-2.51 DETAILS.
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 24'-0" x 40'-0" | 172 SF | 178 SF |
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++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 48' TO 120' x 40'
## TPO ROOF
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

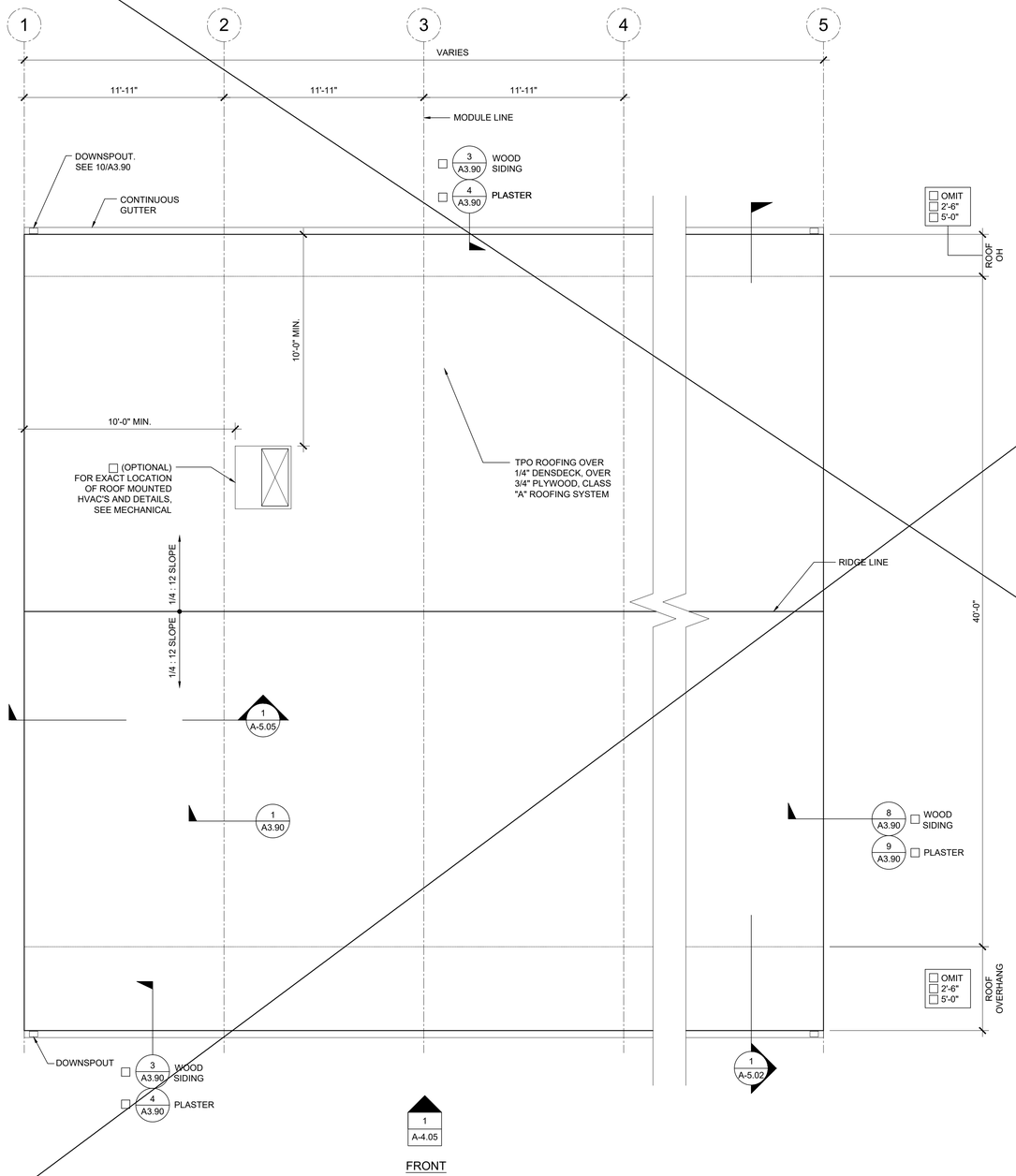
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.43

REAR

2
A-4.05




3
A-4.05

LEFT

4
A-4.05

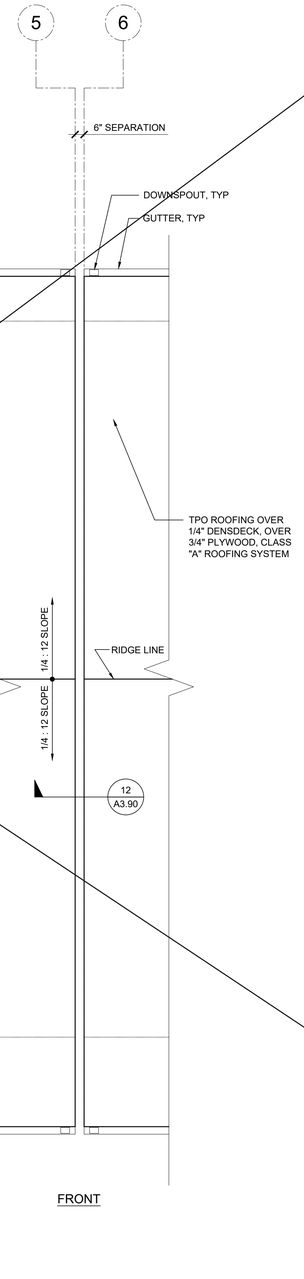
RIGHT

1
A-4.05

FRONT

ROOF PLAN - TPO - DUAL SLOPE SCALE: 1/4" = 1' - 0" 2

REAR



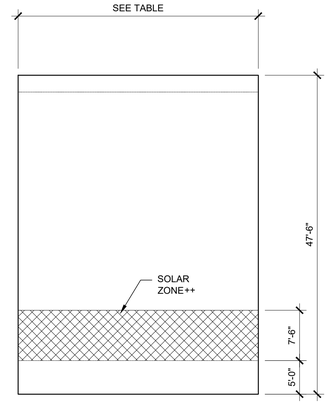

FRONT

ROOF SEP. PLAN OPTION SCALE: 1/4" = 1' - 0" 1

## NOTES

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## SOLAR ZONE




KEYPLAN

SOLAR ZONE CALCULATION TABLE

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PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 48' TO 120' x 40'
## TPO ROOF
## DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

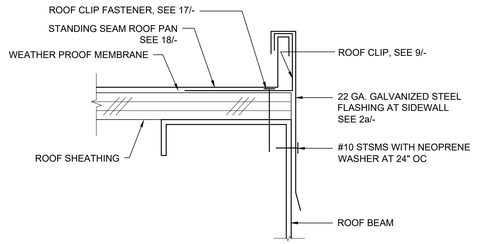
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

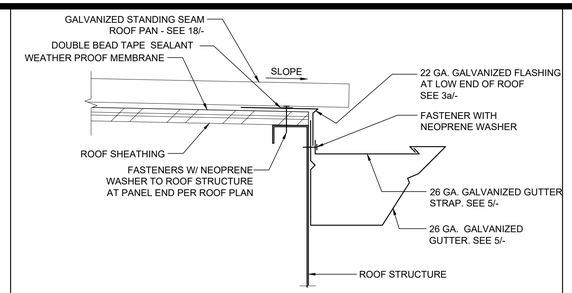
P.C. SHEET NUMBER

A-3.44



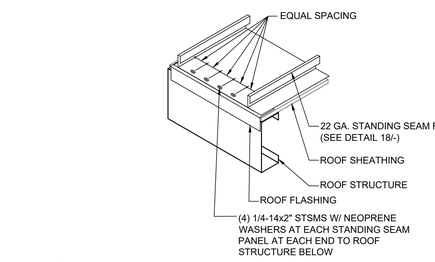

REF: A3.01, A3.02, A3.03, A3.04

## ROOF FLASHING AT SIDEWALL — SCALE : 6"=1'-0" — 16



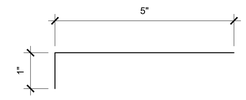

REF: A3.01, A3.02, A3.03, A3.04

## GUTTER AT ROOF FASCIA BEAM — SCALE : 3"=1'-0" — 11



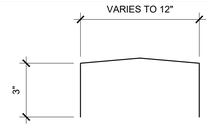

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## STANDING SEAM PANEL AT ENDS — SCALE : NTS — 6



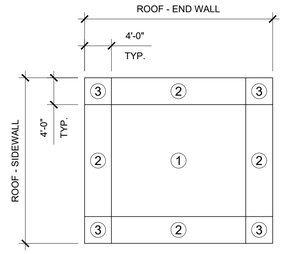

REF: A3.50

## FLASHING AT MODULE LINE WALL — SCALE : 6"=1'-0" — 1a



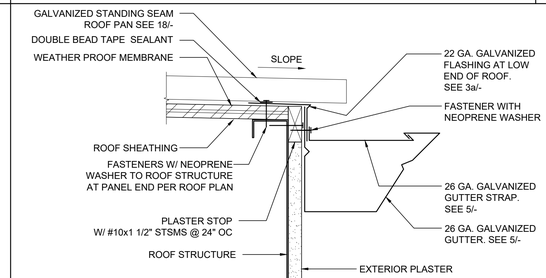

REF: A3.50

## 0.018" ROOF CAP AT MODULE LINE — SCALE : 6"=1'-0" — 1b



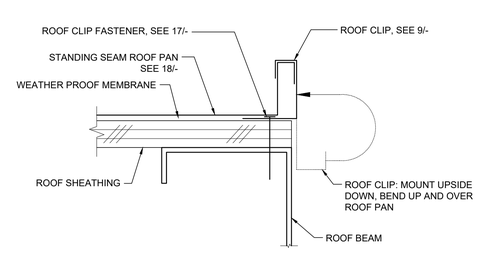

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## ROOF CLIP ZONES — NTS — 17



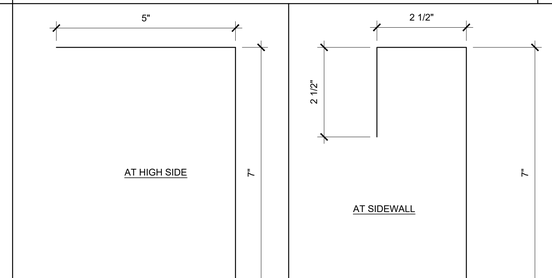

REF: A3.01, A3.02, A3.03, A3.04

## GUTTER AT ROOF FASCIA BEAM — SCALE : 3"=1'-0" — 12




REF: A3.01, A3.02, A3.03, A3.04

## STARTER ROOF PAN CONNECTION — SCALE : 6"=1'-0" — 7

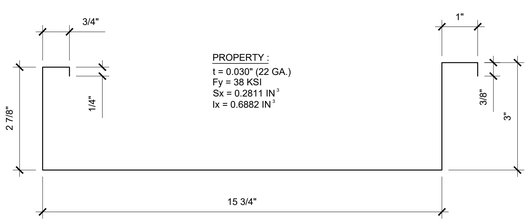



REF: A3.50

## ROOF FLASHING — SCALE : 6"=1'-0" — 2b

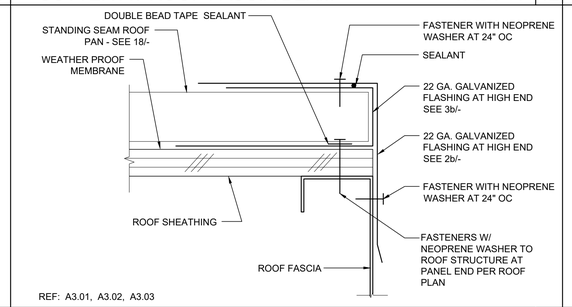
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## ROOF FLASHING — SCALE : 6"=1'-0" — 2a



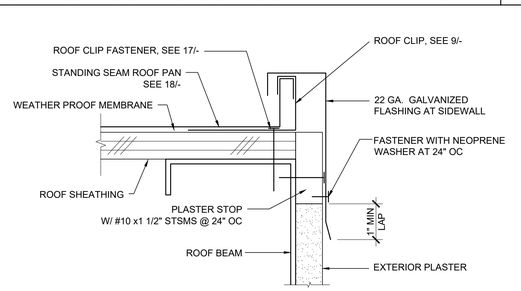

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## ROOF DECK PROFILE — SCALE : NTS — 18



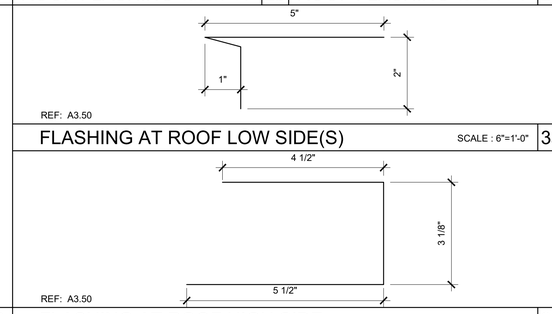

REF: A3.01, A3.02, A3.03

## ROOF FLASHING AT HIGH SIDE — SCALE : 6"=1'-0" — 13




REF: A3.01, A3.02, A3.03, A3.04

## ROOF FLASHING AT SIDEWALL — SCALE : 6"=1'-0" — 8



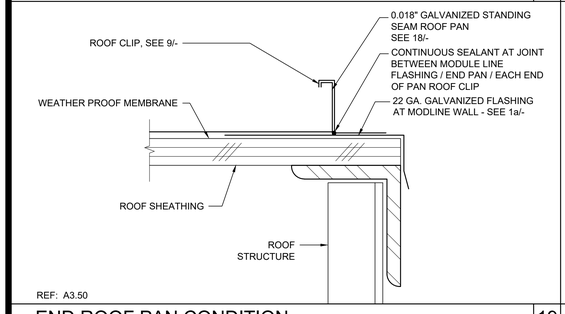

REF: A3.50

## FLASHING AT ROOF LOW SIDE(S) — SCALE : 6"=1'-0" — 3a



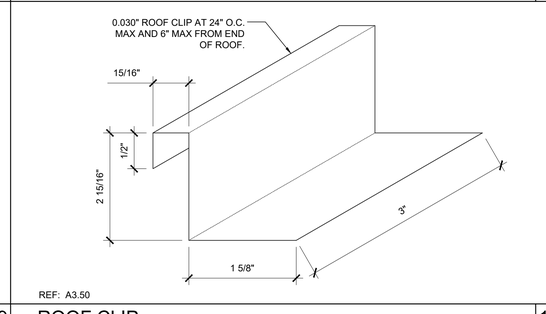

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## FLASHING AT ROOF HIGH SIDE — SCALE : 6"=1'-0" — 3b



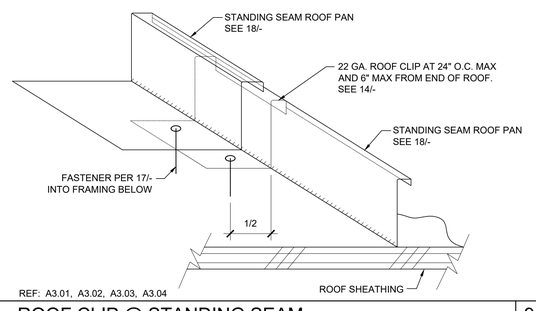

REF: A3.50

## END ROOF PAN CONDITION — SCALE : 6"=1'-0" — 19



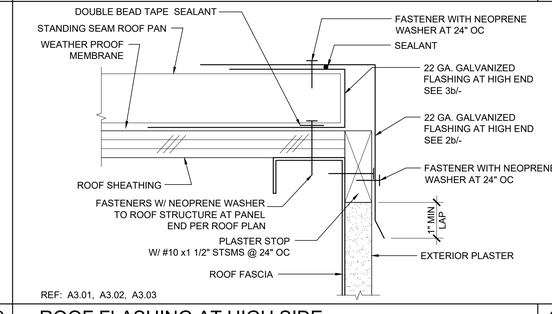

REF: A3.50

## ROOF CLIP — SCALE : 1'-0"=1'-0" — 14



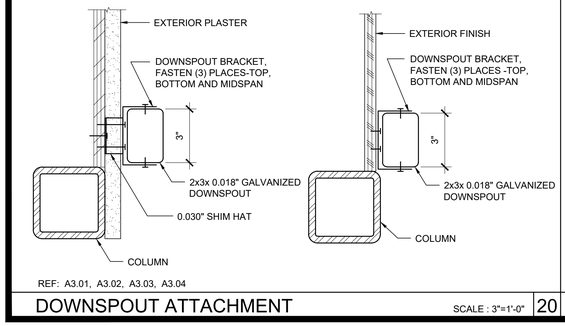

REF: A3.01, A3.02, A3.03, A3.04

## ROOF CLIP @ STANDING SEAM — SCALE : NTS — 9



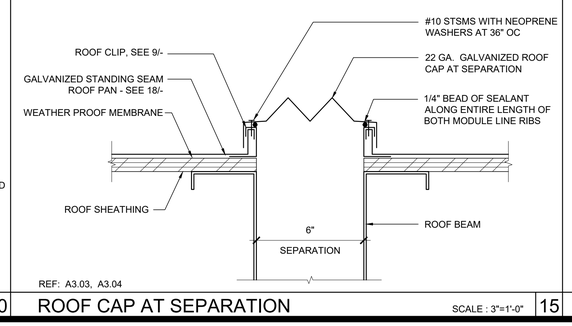

REF: A3.01, A3.02, A3.03

## ROOF FLASHING AT HIGH SIDE — SCALE : 6"=1'-0" — 4



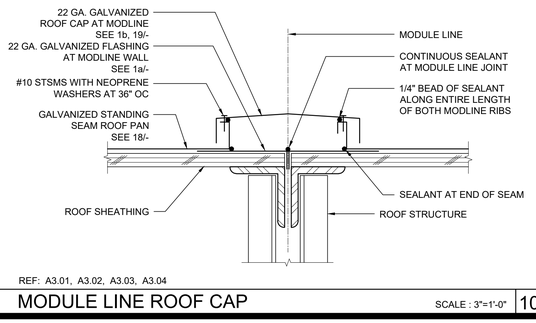

REF: A3.01, A3.02, A3.03, A3.04

## DOWNSPOUT ATTACHMENT — SCALE : 3"=1'-0" — 20



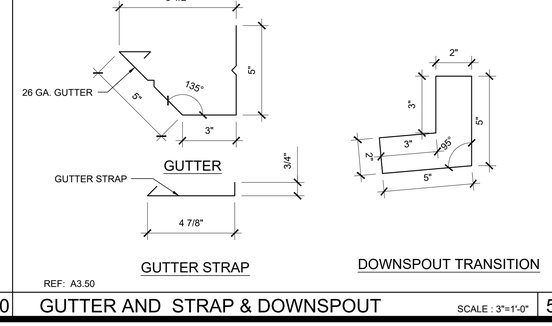

REF: A3.03, A3.04

## ROOF CAP AT SEPARATION — SCALE : 3"=1'-0" — 15




REF: A3.01, A3.02, A3.03, A3.04

## MODULE LINE ROOF CAP — SCALE : 3"=1'-0" — 10




REF: A3.50

## GUTTER AND STRAP & DOWNSPOUT — SCALE : 3"=1'-0" — 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ROOF DETAILS
## STANDING SEAM ROOF DECK

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

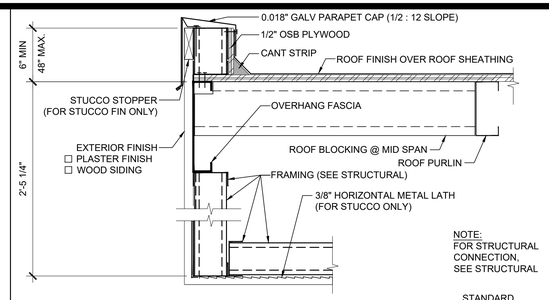
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

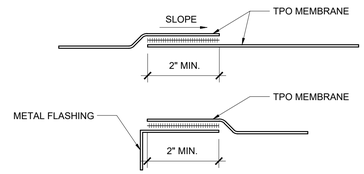
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.50



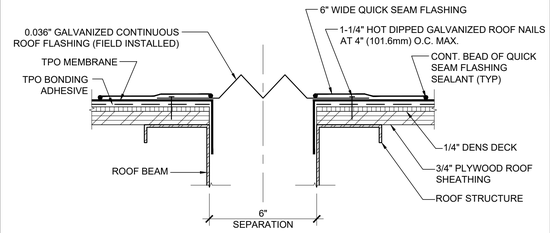

## FRONT PARAPET SECTION (STEEL FRAME)

SCALE : 1 1/2" = 1'-0" | 11



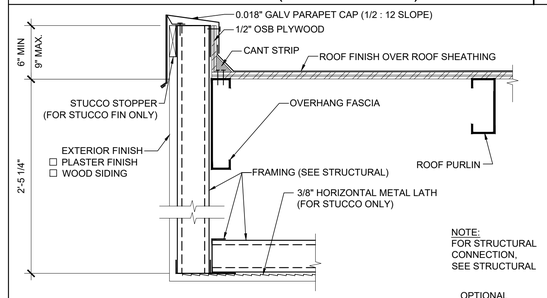

## TPO LAP SPLICE

SCALE : 6" = 1'-0" | 6



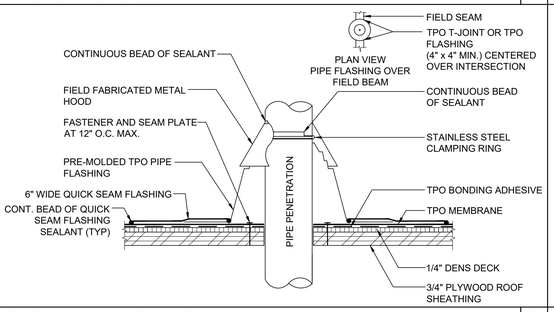

## TPO ROOF AT SEPARATION

SCALE : 3"=1'-0" | 1



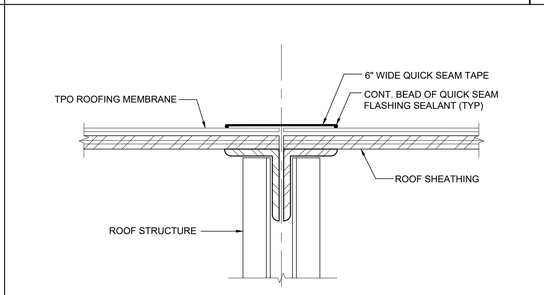

## FRONT PARAPET SECTION (STEEL FRAME)

SCALE : 1 1/2" = 1'-0" | 12



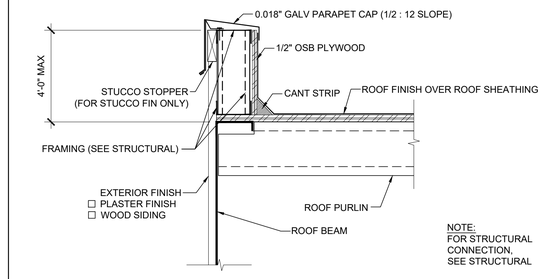

## TPO PIPE FLASHING

SCALE : 3" = 1'-0" | 7



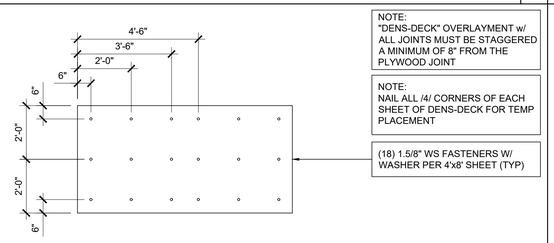

## TPO ROOF AT MODLINE

SCALE : 3"=1'-0" | 2




## SIDEWALL PARAPET SECTION (STEEL FRAME)

SCALE : 1 1/2" = 1'-0" | 13

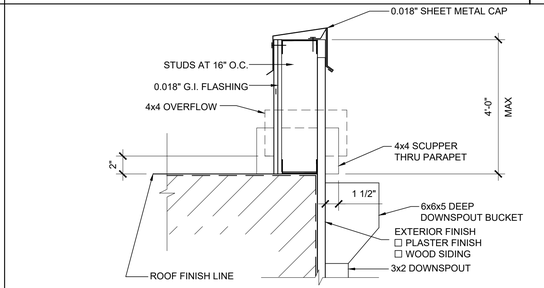



18 FASTENERS PER BOARD

FMRC 1-90 WIND UPLIFT / (18) FASTENERS PER 4' x 8' BOARD

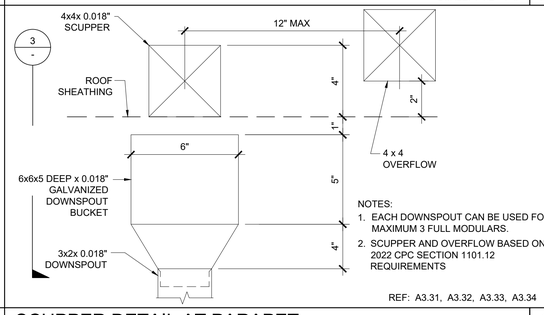
## DENS-DECK FASTENING DIAGRAM

SCALE : NTS | 8




## PARAPET DETAIL

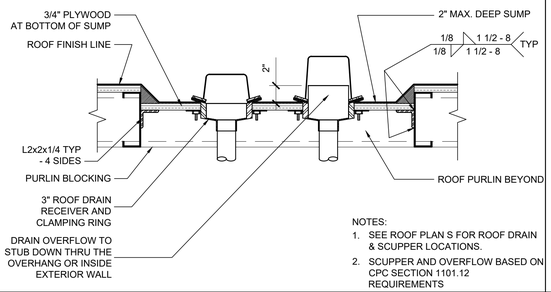
SCALE: 1 1/2"=1'-0" | 3




REF: A3.31, A3.32, A3.33, A3.34

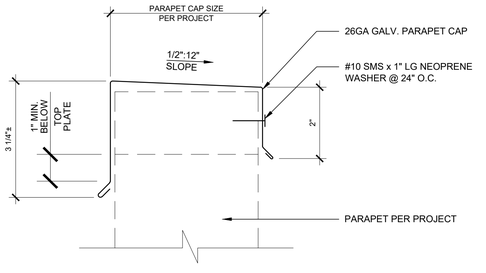
## SCUPPER DETAIL AT PARAPET

SCALE : 3"=1'-0" | 4



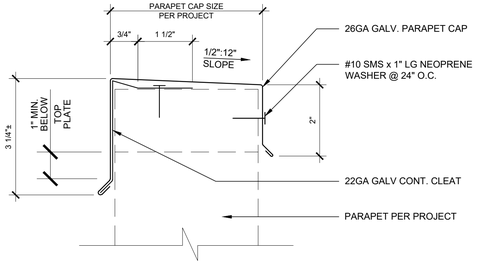

## ROOF DRAIN DETAIL

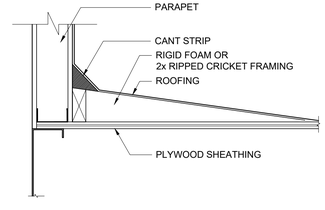
SCALE : 1 1/2" = 1'-0" | 20




## PARAPET CAP DETAIL

SCALE : 1 1/2" = 1'-0" | 15




REF: A3.31, A3.32, A3.33, A3.34

## SECTION AT CRICKET

SCALE : 1 1/2" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PROJECT NAME:

SHEET TITLE:

# ROOF DETAILS
## PARAPET

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

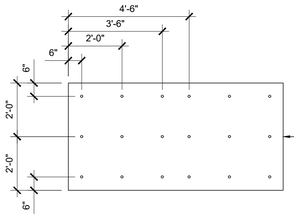
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-3.80




NOTE:
"DENS-DECK" OVERLAYMENT w/ ALL JOINTS MUST BE STAGGERED A MINIMUM OF 8" FROM THE PLYWOOD JOINT

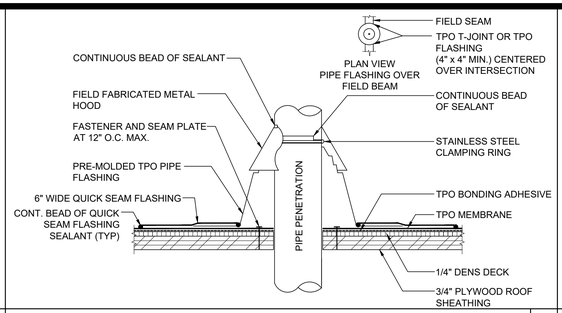
NOTE:
NAIL ALL /4/ CORNERS OF EACH SHEET OF DENS-DECK FOR TEMP PLACEMENT

(18) #12 x 1 5/8" WS FASTENERS W/ WASHER PER 4'x8' SHEET (TYP)

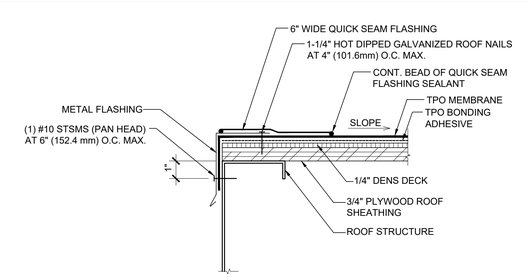
## 18 FASTENERS PER BOARD

FMRC 1-90 WIND UPLIFT / (18) FASTENERS PER 4' x 8' BOARD

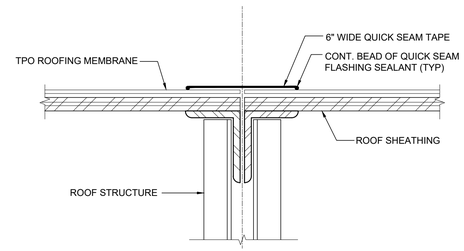
## TYP 4x8 SHEET FASTENER LAYOUT — SCALE: NTS — 16




## DETAIL AT PIPE FLASHING — SCALE: 3"=1'-0" — 11

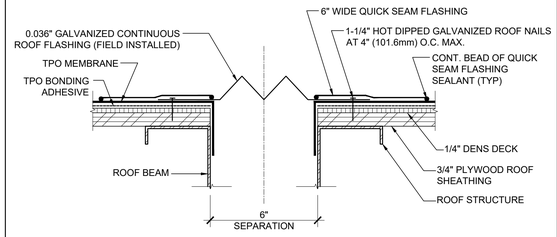



## ROOF AT HIGH END — SCALE: 3"=1'-0" — 6

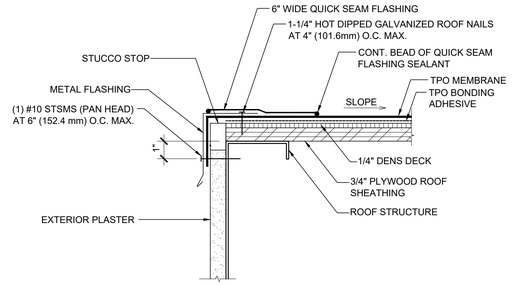



## TPO ROOF AT MODLINE — SCALE : 3"=1'-0" — 1

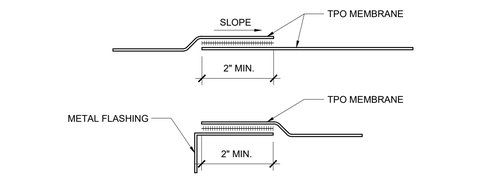
## 17




## SEPARATION AT ROOF — SCALE: 3"=1'-0" — 12



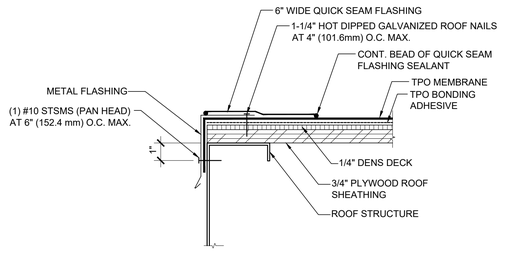

## ROOF AT HIGH END — SCALE: 3"=1'-0" — 7



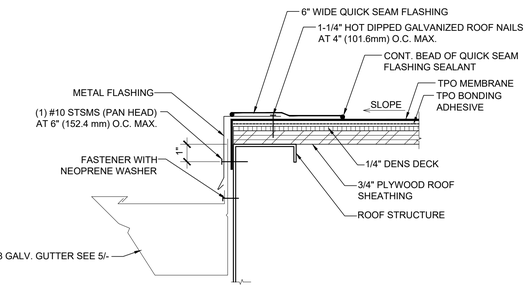

## TPO LAP SPLICE — SCALE: 6" = 1'-0" — 2

## 18

## 13



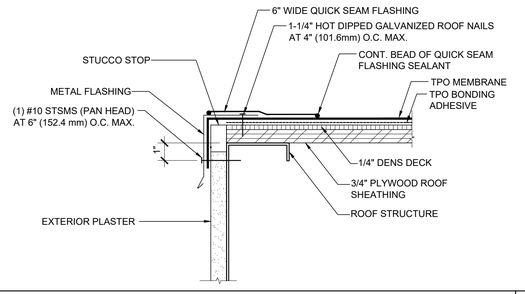

## ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 8



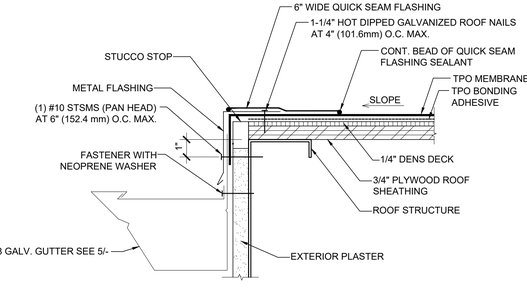

## ROOF AT LOW END — SCALE: 3"=1'-0" — 3

## 19

## 14



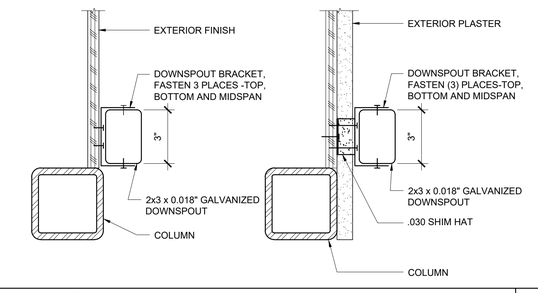

## ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 9



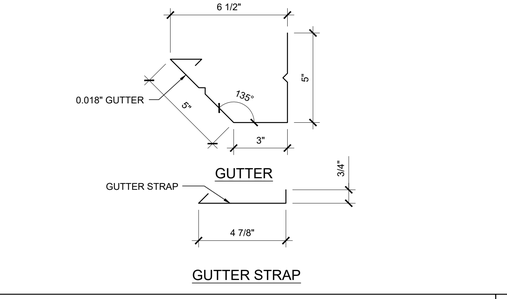

## ROOF AT LOW END — SCALE: 3" = 1'-0" — 4

## 20

## 15




## DOWNSPOUT ATTACHMENT — SCALE : 3" = 1'-0" — 10




## 0.018" GUTTER AND GUTTER STRAP — SCALE : 3" = 1'-0" — 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOFING DETAILS TPO ROOF

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

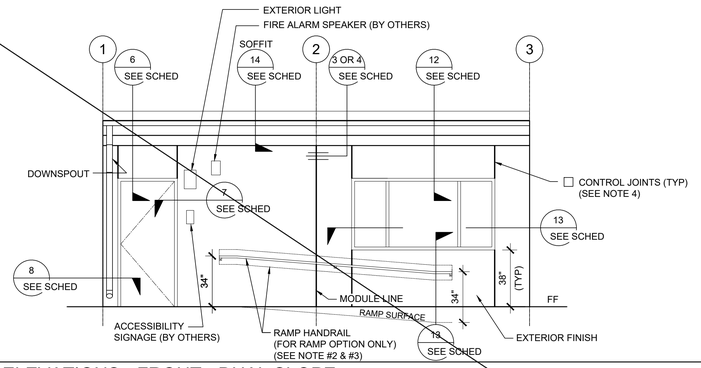
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

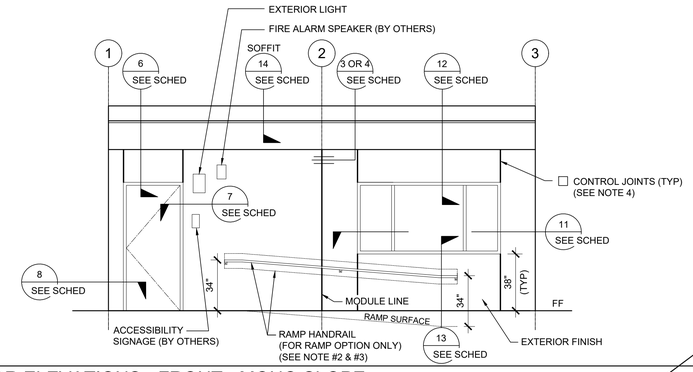
P.C. SHEET NUMBER

A-3.90



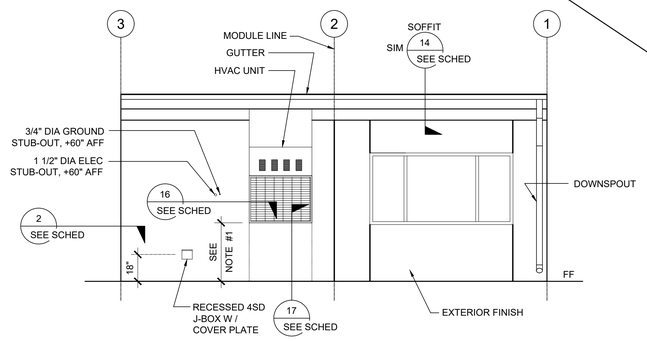

## EXTERIOR ELEVATIONS - FRONT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 5



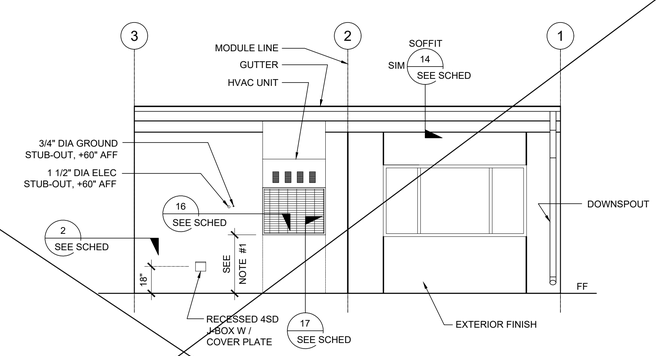

## EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 1



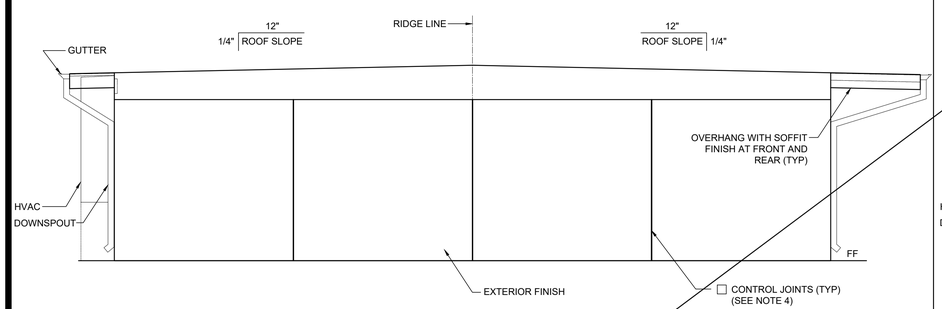

## EXTERIOR ELEVATIONS - REAR - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 6



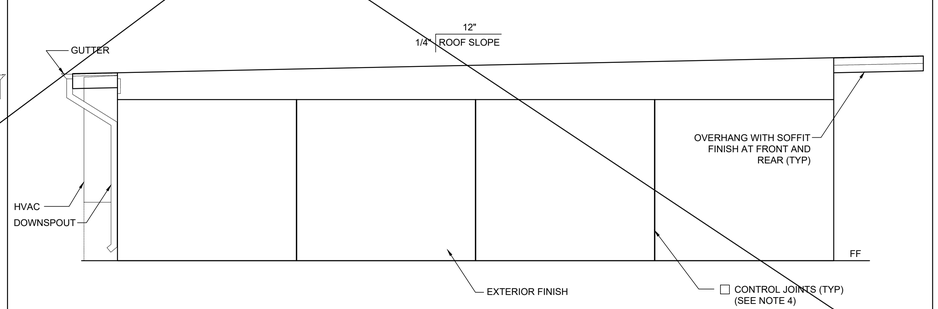

## EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 2



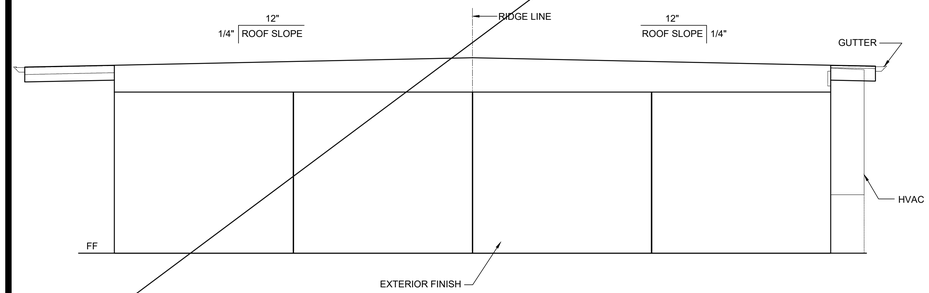

## EXTERIOR ELEVATIONS - LEFT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 7



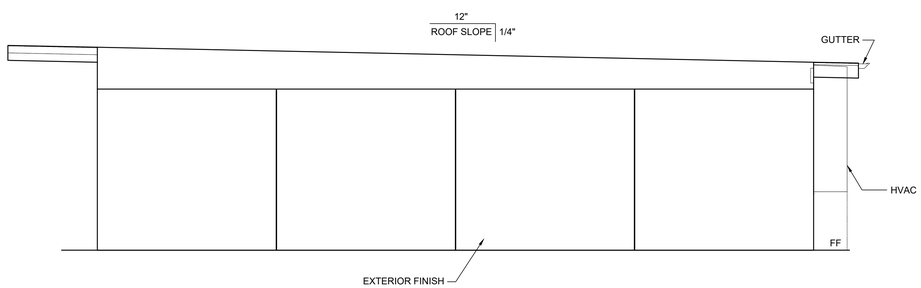

## EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 3




## EXTERIOR ELEVATIONS - RIGHT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 8




## EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2022 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL AND/OR FIRE RESISTANCE RATED EXTERIOR WALL.

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 24' X 40'
## MONO / DUAL SLOPE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

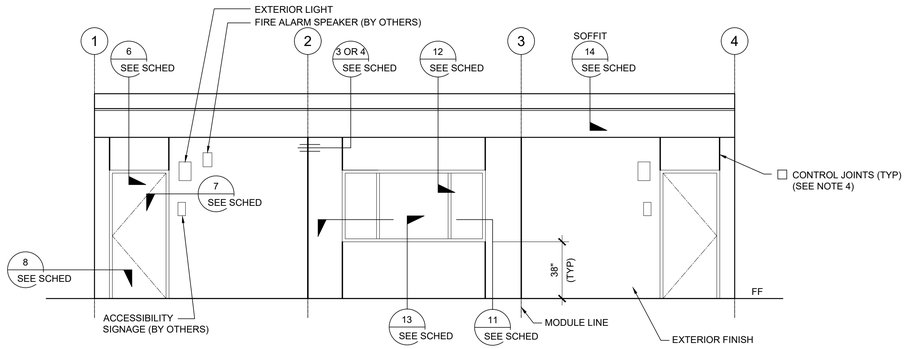
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

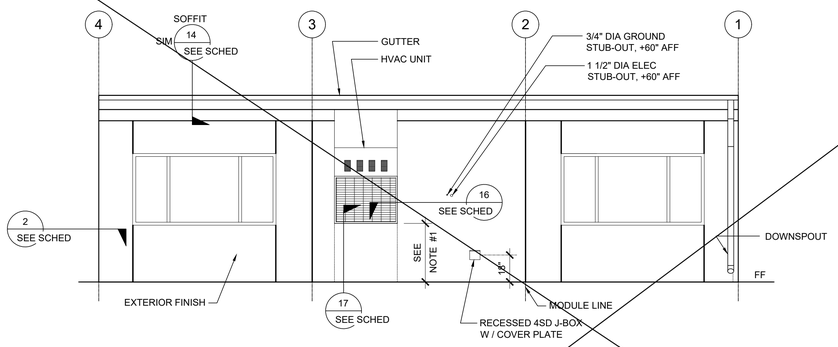
P.C. SHEET NUMBER

A-4.01



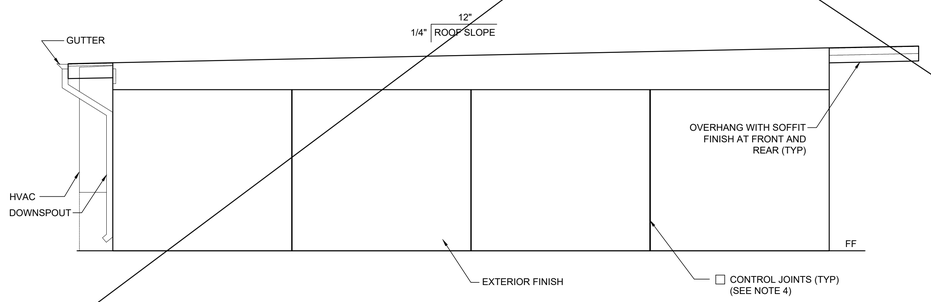

EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 1



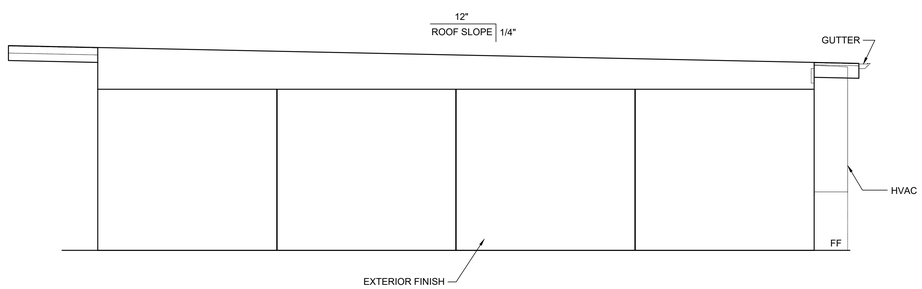

EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 2




EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 3




EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2022 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL AND/OR FIRE RESISTANCE RATED EXTERIOR WALL.

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 36' X 40'
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

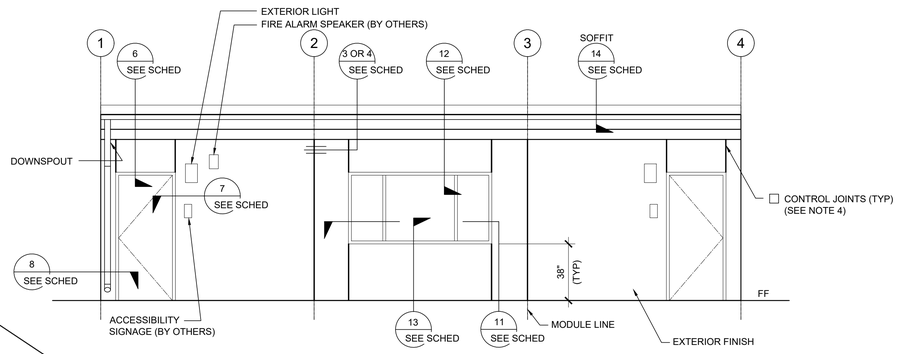
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

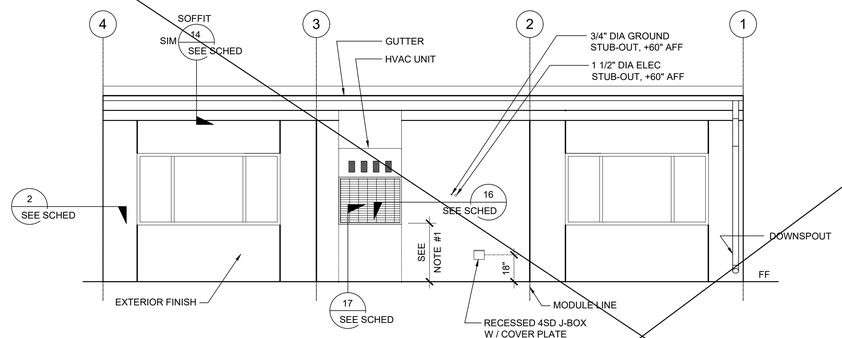
P.C. SHEET NUMBER

A-4.02



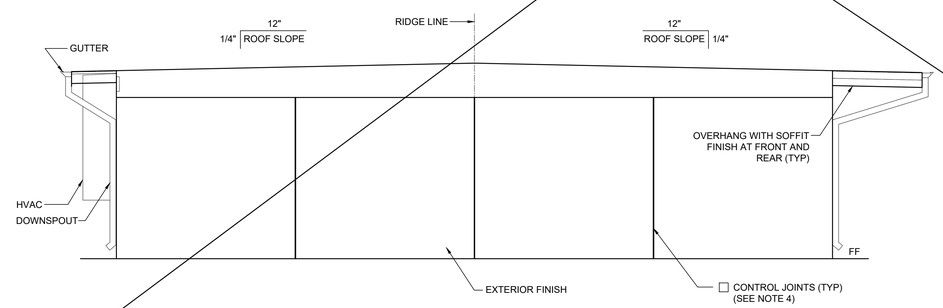

EXTERIOR ELEVATIONS - FRONT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 1



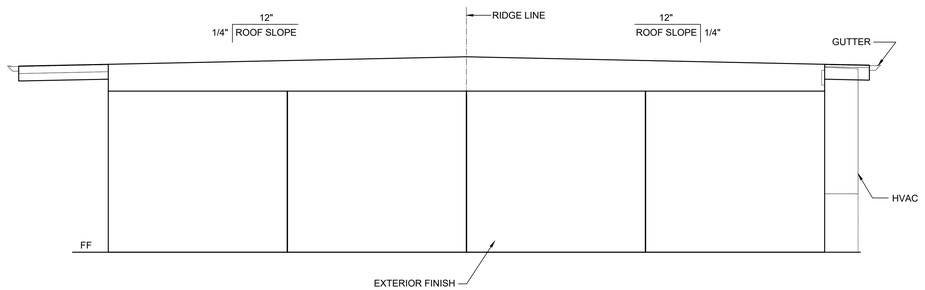

EXTERIOR ELEVATIONS - REAR - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2




EXTERIOR ELEVATIONS - LEFT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 3




EXTERIOR ELEVATIONS - RIGHT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
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## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 36' X 40'
## DUAL SLOPE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

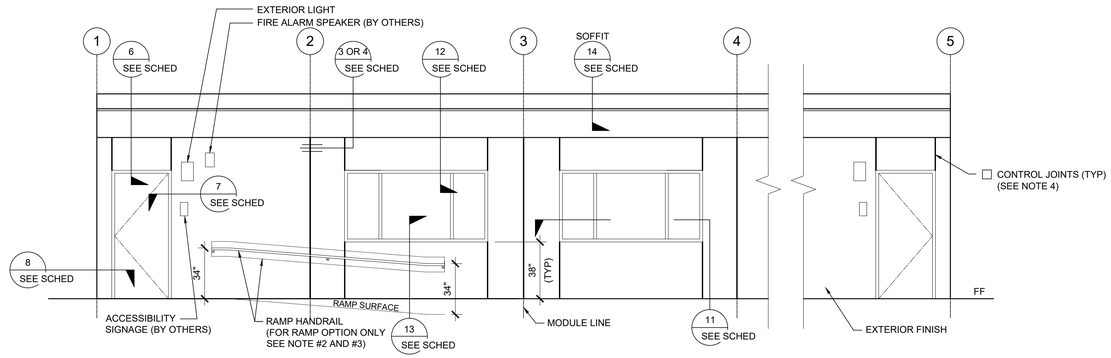
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

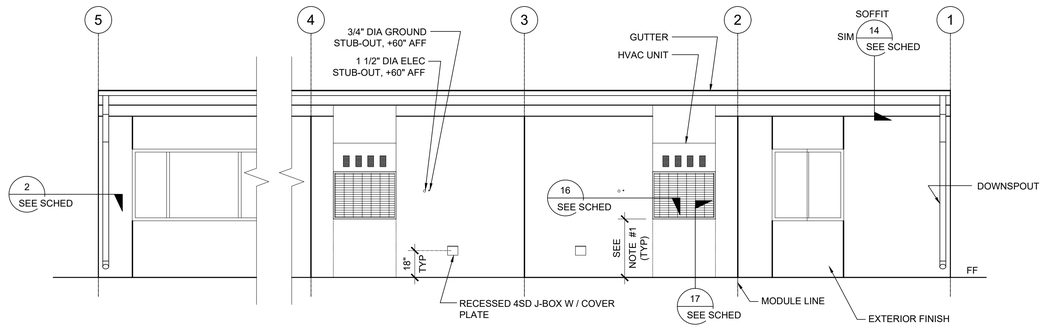
P.C. SHEET NUMBER

A-4.03



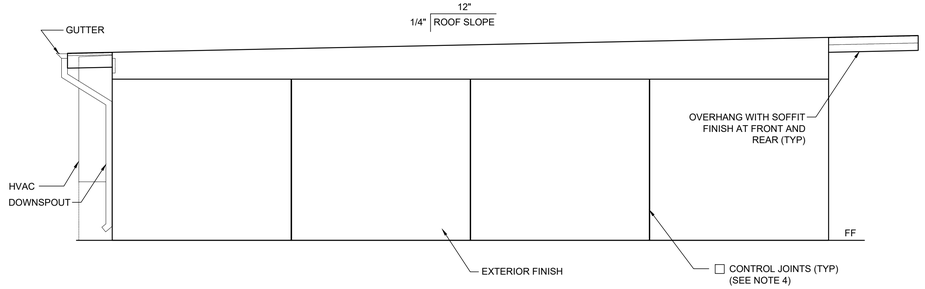

EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 1



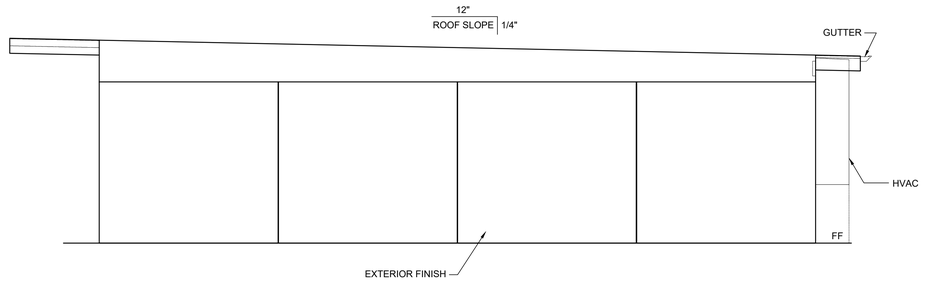

EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 2




EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 3




EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
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## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 48' TO 120' X 40'
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

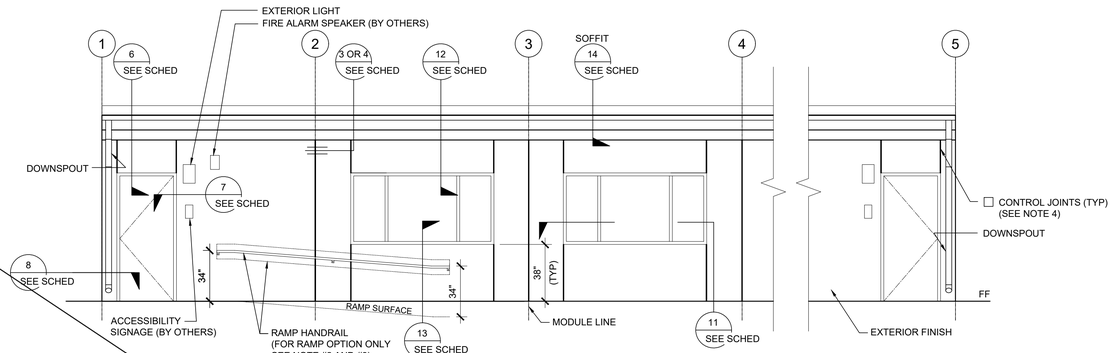
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

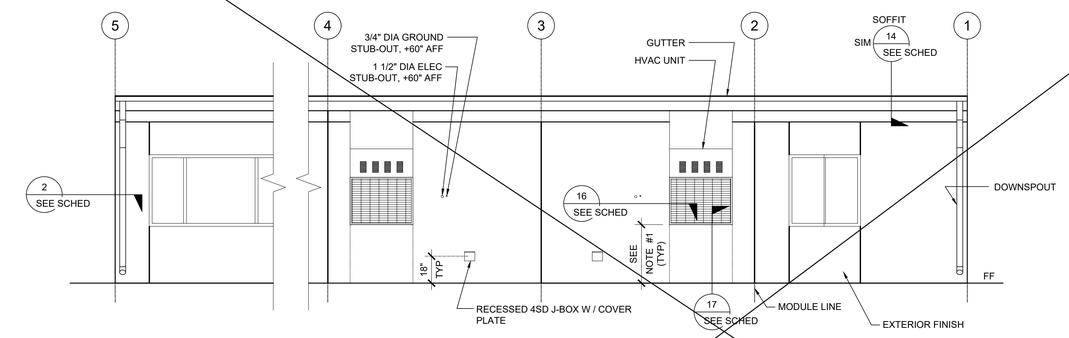
P.C. SHEET NUMBER

A-4.04



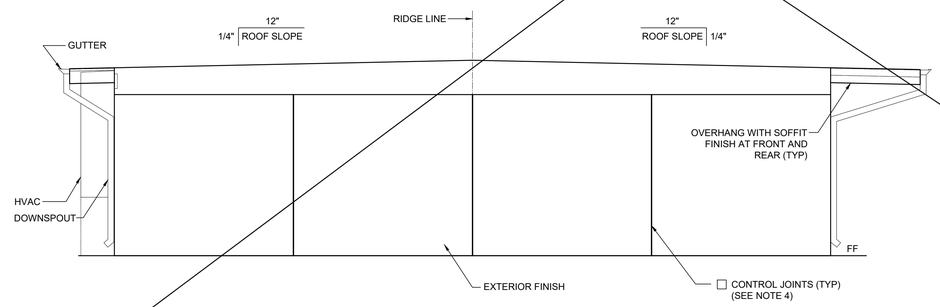

## EXTERIOR ELEVATIONS - FRONT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 1



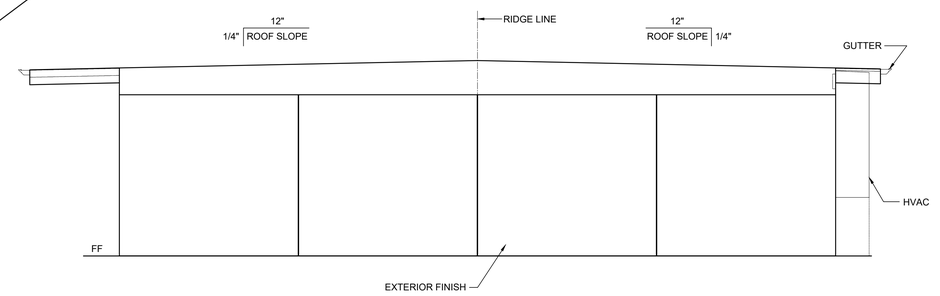

## EXTERIOR ELEVATIONS - REAR - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2




## EXTERIOR ELEVATIONS - LEFT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 3




## EXTERIOR ELEVATIONS - RIGHT - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
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## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 48' TO 120' X 40'
## DUAL SLOPE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

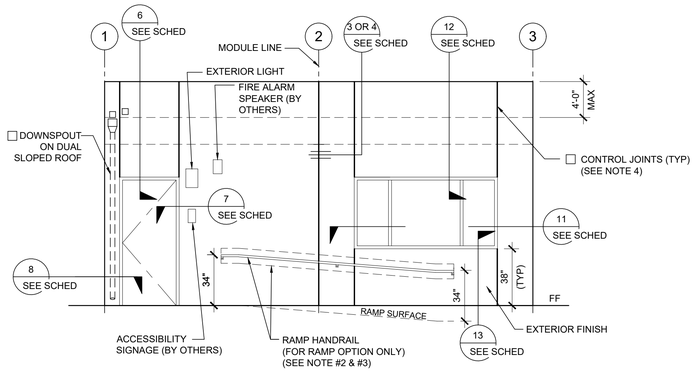
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

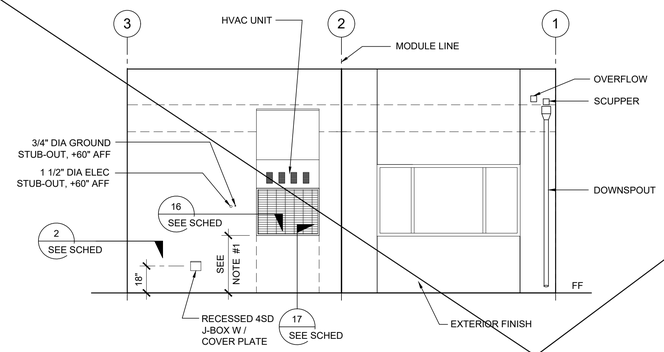
P.C. SHEET NUMBER

A-4.05



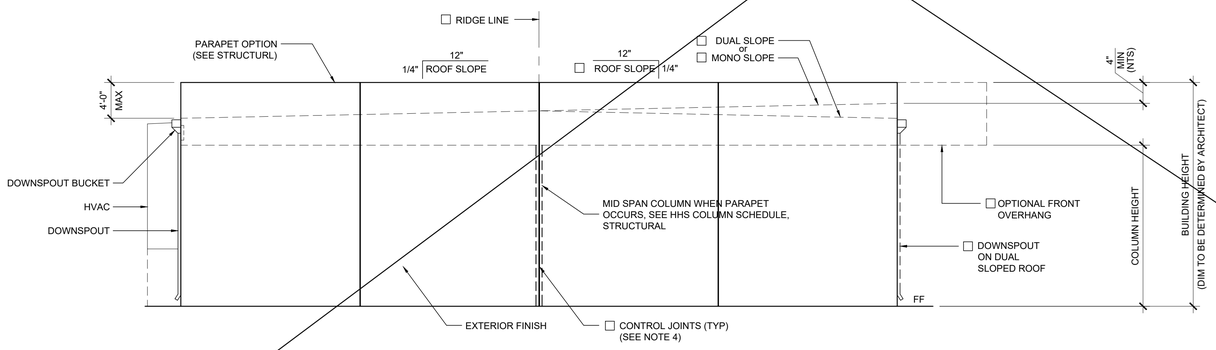

## EXTERIOR ELEVATIONS - FRONT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 1



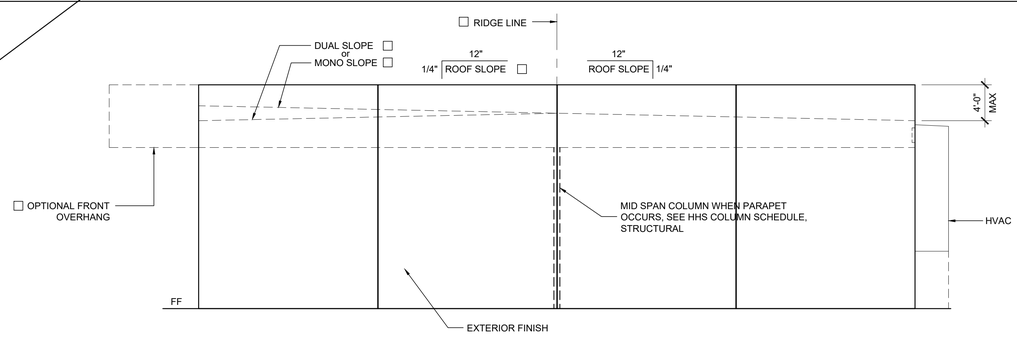

## EXTERIOR ELEVATIONS - REAR - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2




## EXTERIOR ELEVATIONS - LEFT - MODULAR OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 3




## EXTERIOR ELEVATIONS - RIGHT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2022 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL AND/OR FIRE RESISTANCE RATED EXTERIOR WALL.

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 24' X 40' PARAPET
## MONO / DUAL SLOPE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

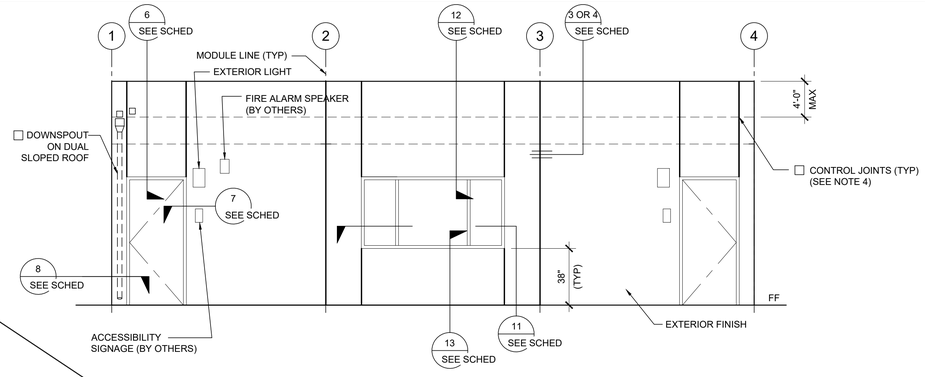
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

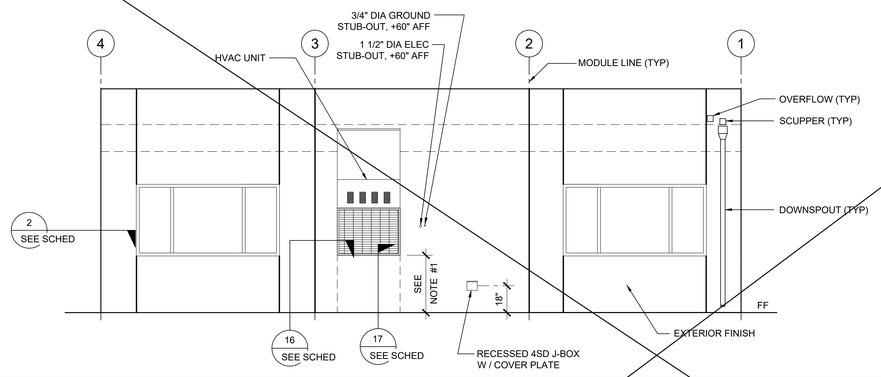
P.C. SHEET NUMBER

A-4.21



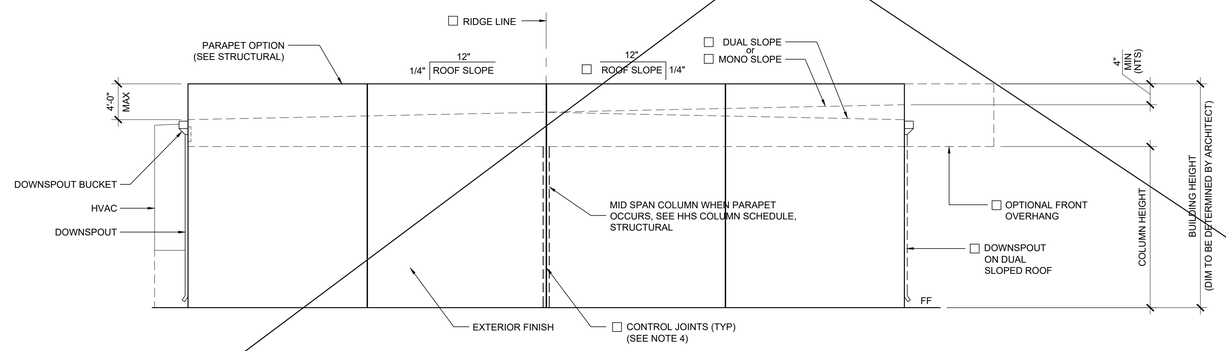

## EXTERIOR ELEVATIONS - FRONT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 1



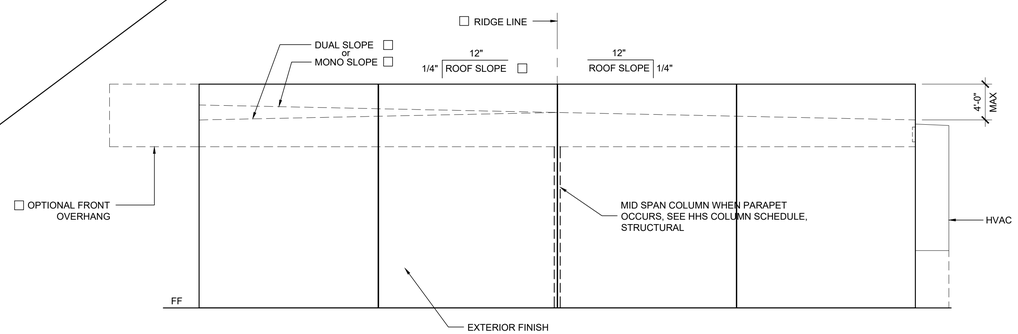

## EXTERIOR ELEVATIONS - REAR - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 2




## EXTERIOR ELEVATIONS - LEFT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 3




## EXTERIOR ELEVATIONS - RIGHT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
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## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

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PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 36' X 40' PARAPET
## MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

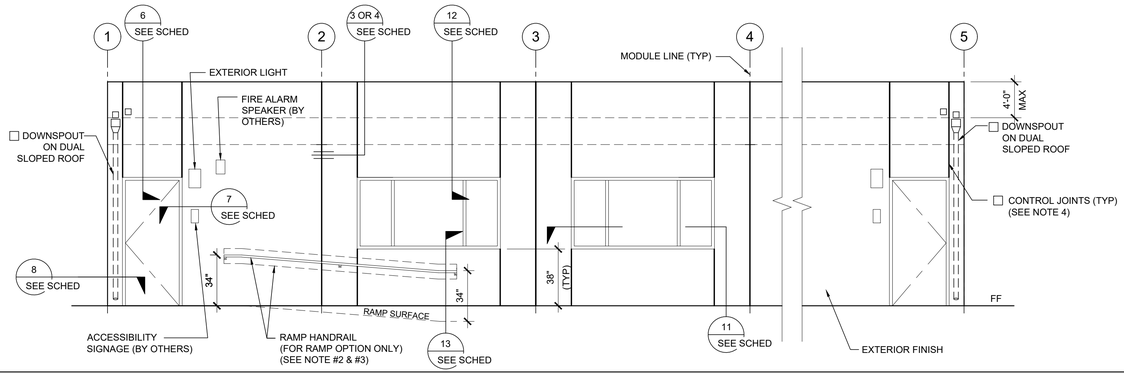
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

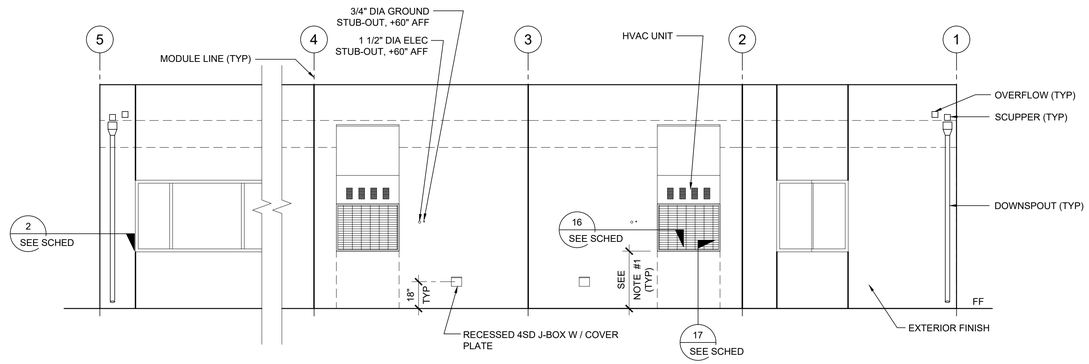
P.C. SHEET NUMBER

A-4.22



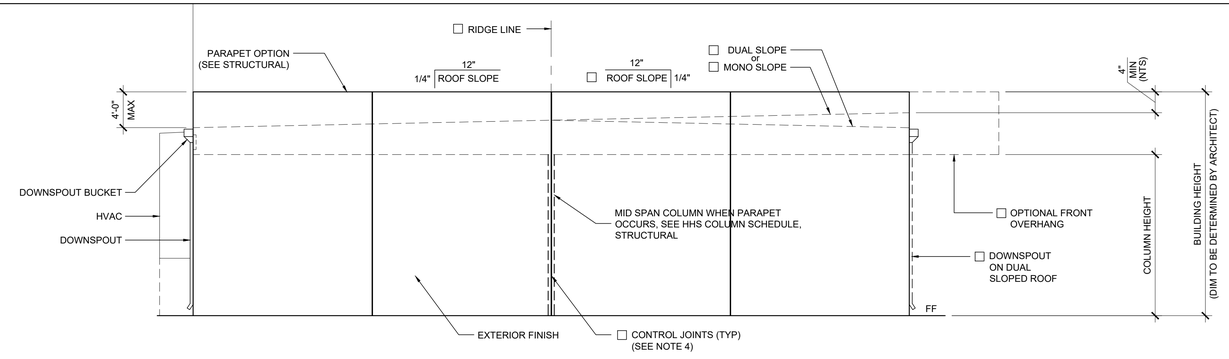

## EXTERIOR ELEVATIONS - FRONT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 1



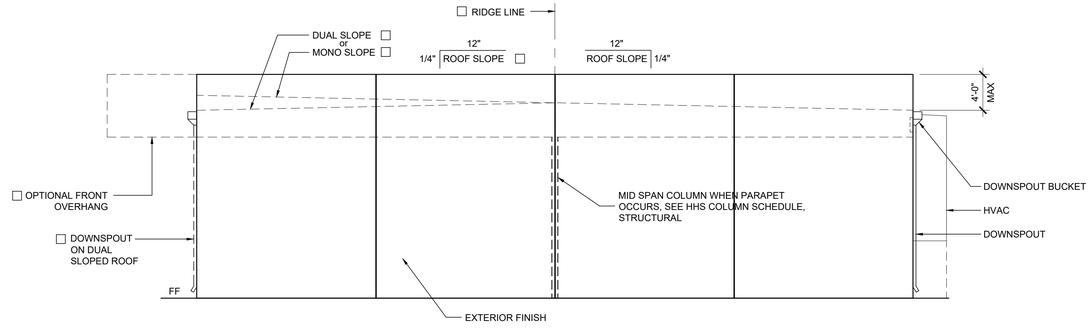

## EXTERIOR ELEVATIONS - REAR - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 2




## EXTERIOR ELEVATIONS - LEFT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 3




## EXTERIOR ELEVATIONS - RIGHT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1'-0" | 4

## NOTES (EXTERIOR ELEVATION)

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## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

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DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 48' TO 120' X 40' PARAPET MONO OR DUAL SLOPE

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-4.23

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

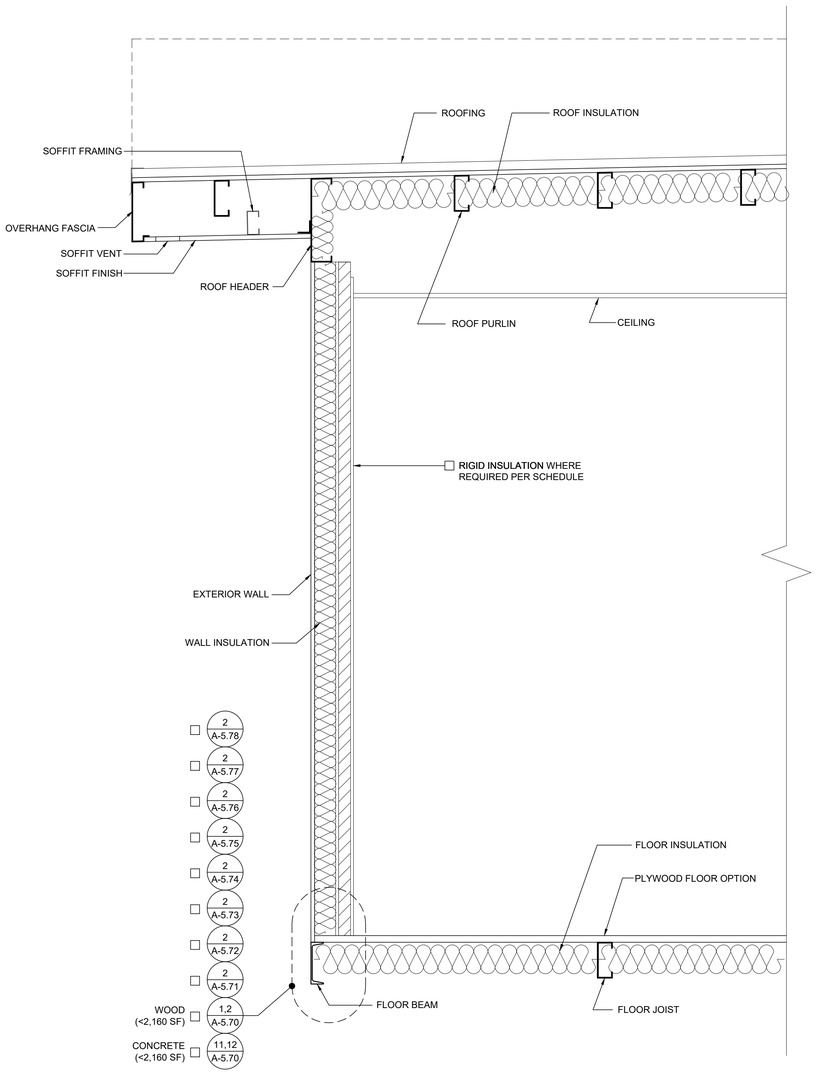
| FINISH: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

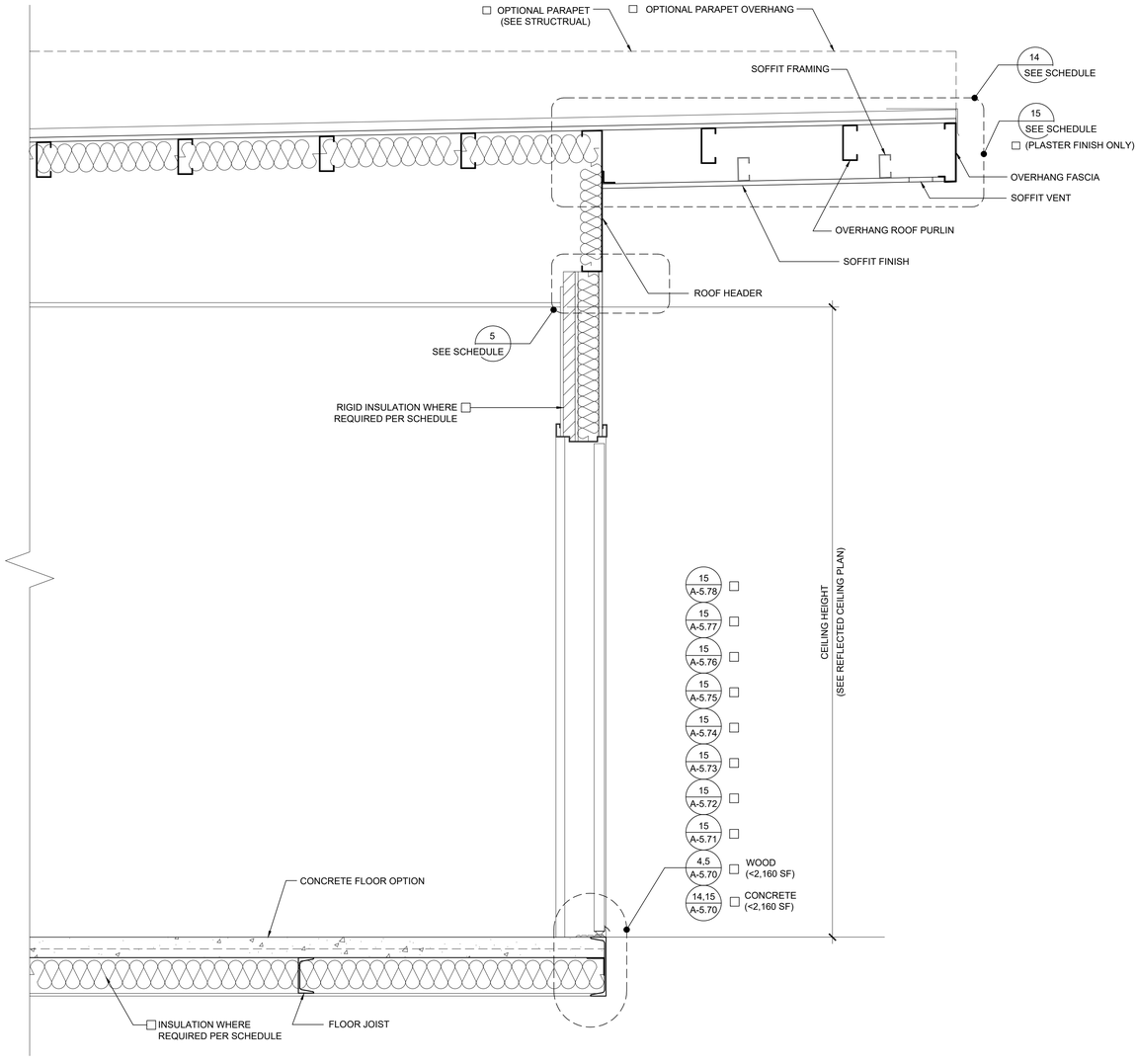
## FLOOR OPTION

- ☐ WOOD FLOOR
- ☐ CONCRETE FLOOR

## NOTES

SEALANTS AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL SEALANTS AND CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING AND TO LIMIT AIR LEAKAGE.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS. SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.
ALL EXTERIOR JOINTS, PENETRATIONS AND OTHER OPENINGS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.




BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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PROJECT NAME:

SHEET TITLE:

# CROSS SECTION
# MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARKEY 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-5.01

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

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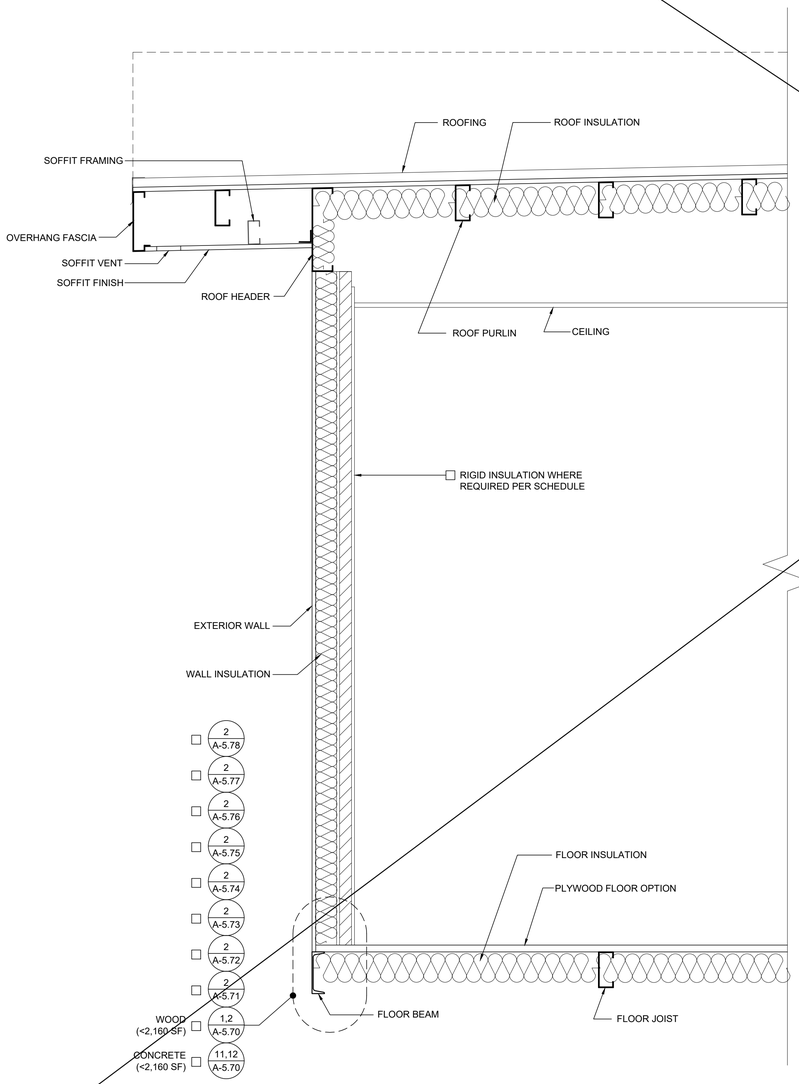
| FINISH: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

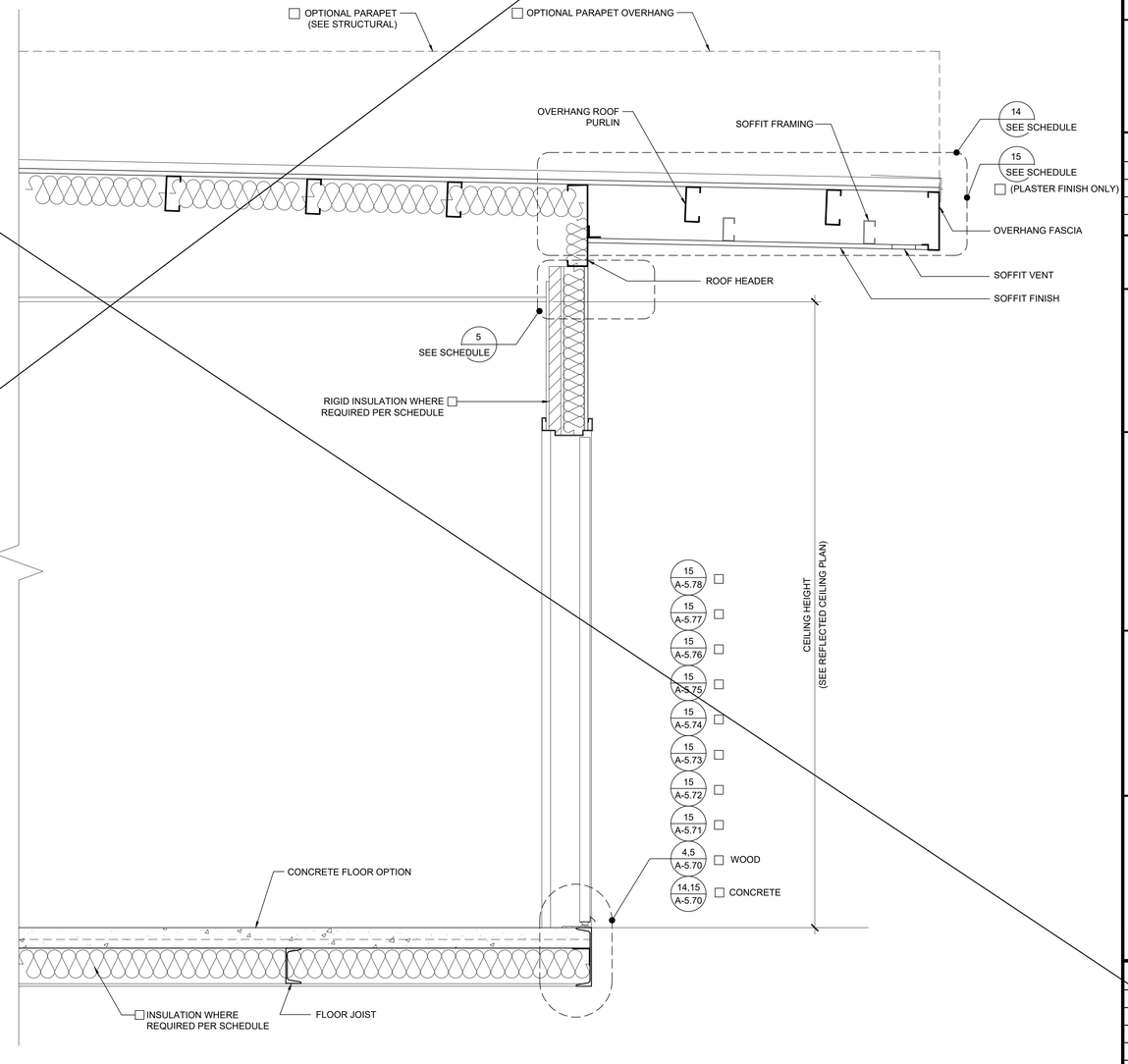
## FLOOR OPTION

- ☐ WOOD FLOOR
- ☐ CONCRETE FLOOR

## NOTES

SEALANTS AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL SEALANTS AND CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING AND TO LIMIT AIR LEAKAGE.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS. SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.
ALL EXTERIOR JOINTS, PENETRATIONS AND OTHER OPENINGS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.




BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CROSS SECTION
## DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARUCH 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-5.02

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

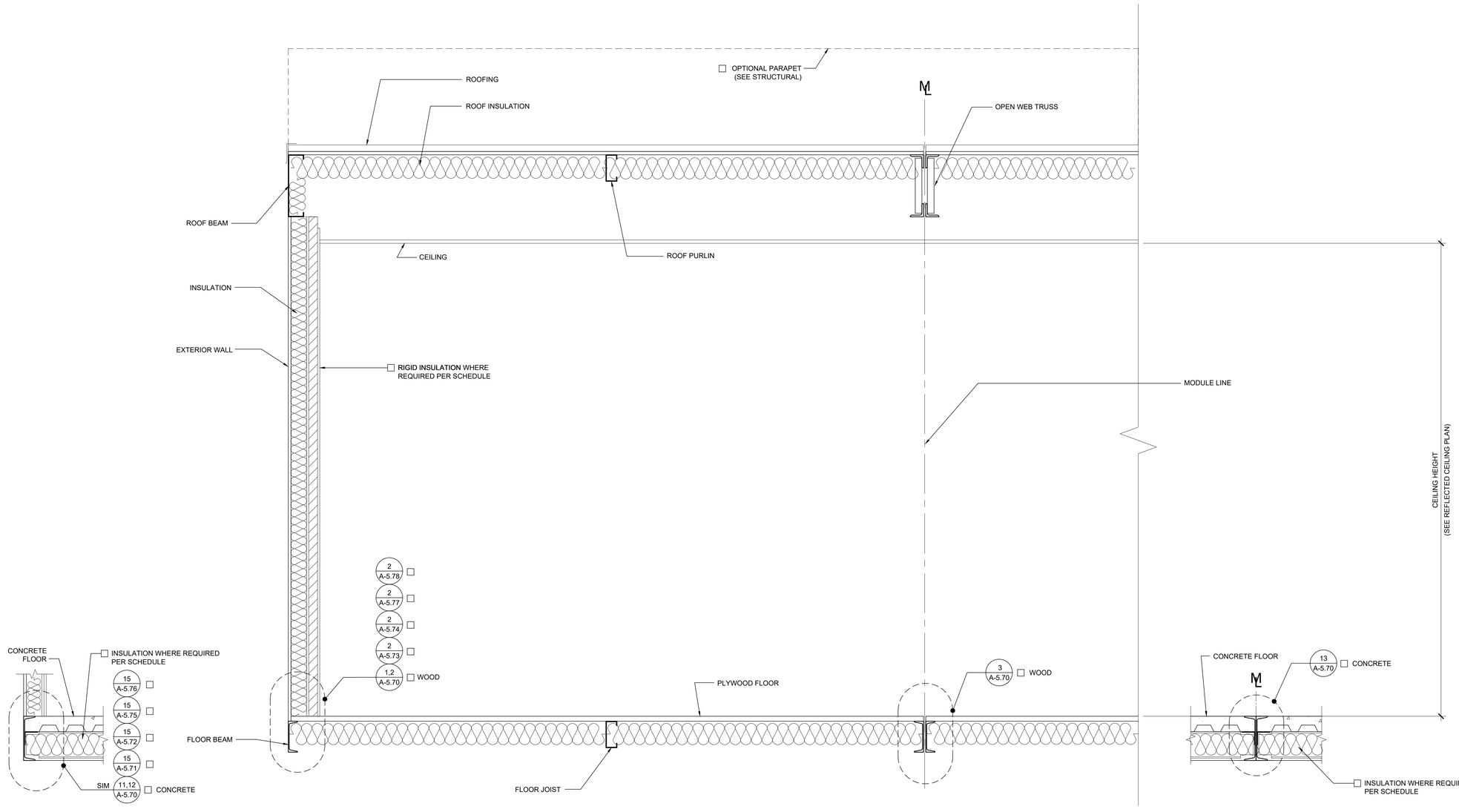
| FINISH: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## FLOOR OPTION

- ☐ WOOD FLOOR
- ☐ CONCRETE FLOOR

## NOTES

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CONCRETE FLOOR OPTION

WOOD FLOOR OPTION

CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1'-0"

1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# CROSS SECTION

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

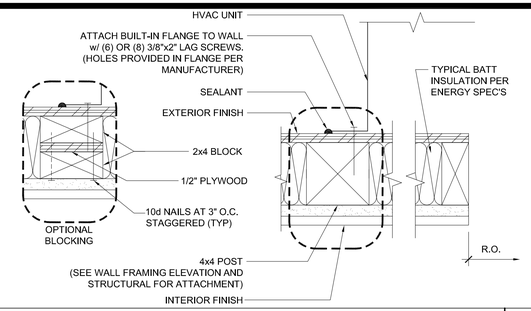
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

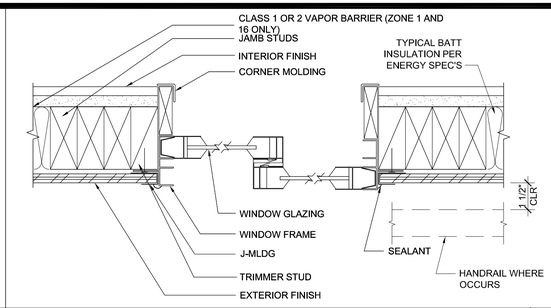
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.05



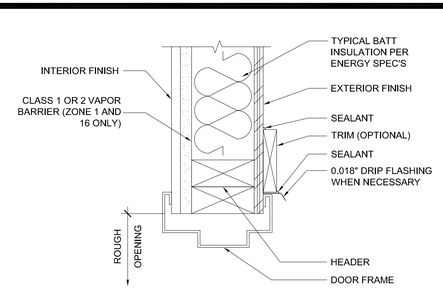

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



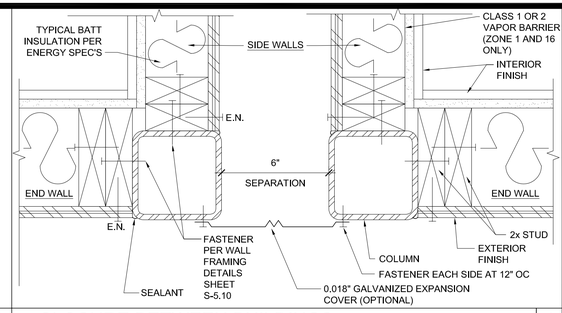

## WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



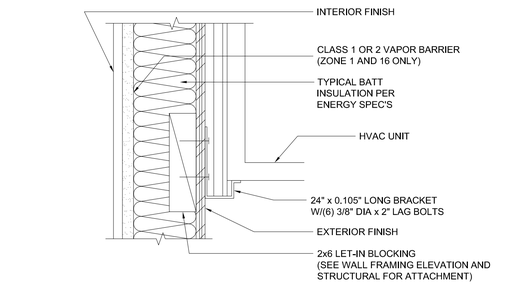

## EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



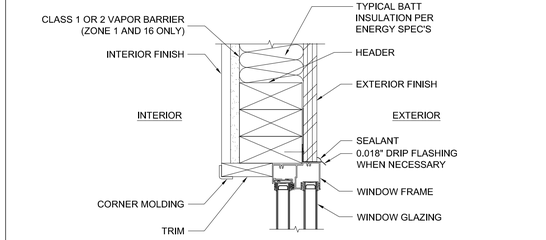

## CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



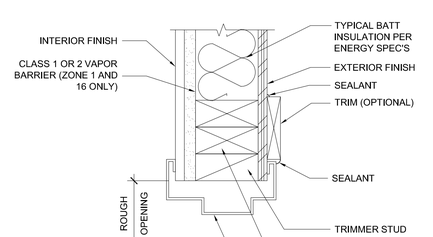

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



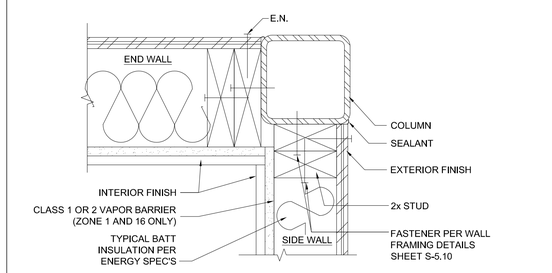

## WINDOW HEADER

SCALE : 3"=1'-0" | 12



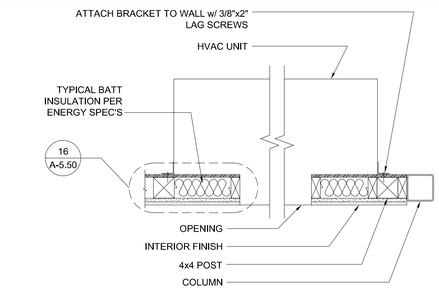

## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



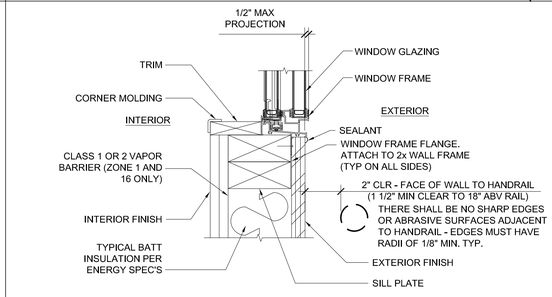

## COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



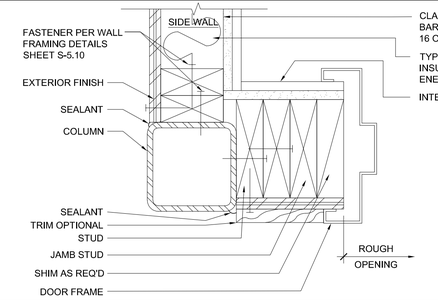

## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



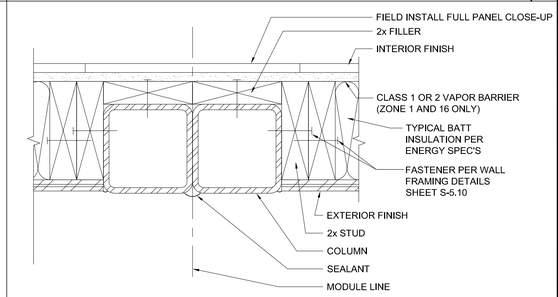

## WINDOW SILL

SCALE : 3"=1'-0" | 13




## COLUMN AT CORNER

SCALE : 3"=1'-0" | 8

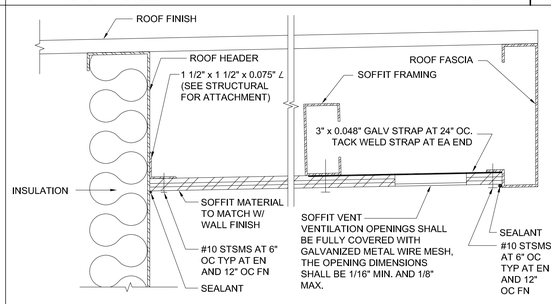



## COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3

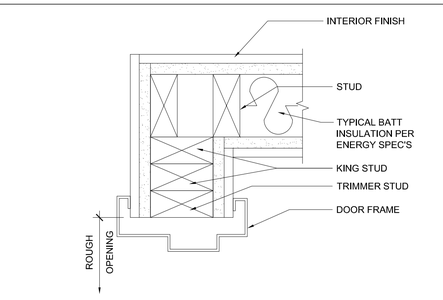
## NOT USED

19



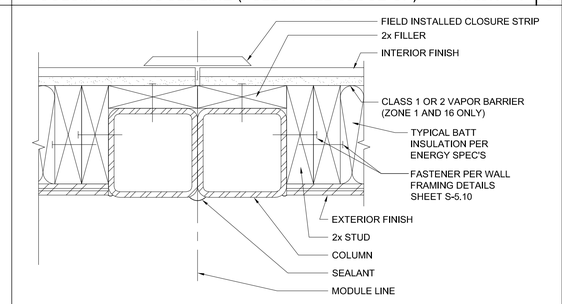

## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




## INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9




## COLUMN AT MODULE LINE (CLOSURE STRIP)

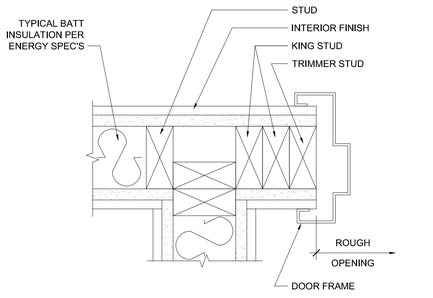
SCALE : 3"=1'-0" | 4

## NOT USED

20

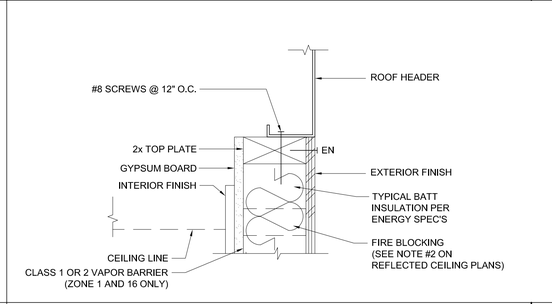
## NOT USED

15




## INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10




## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## WOOD STUD - SHTG

REVISIONS
02/27/2026 BID SET
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

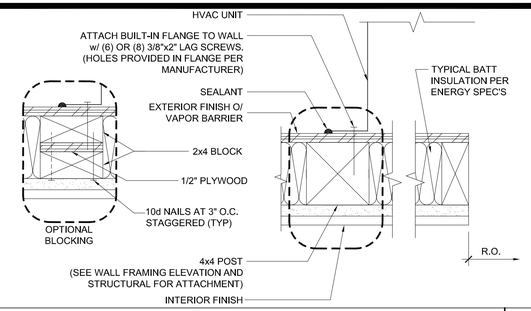
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

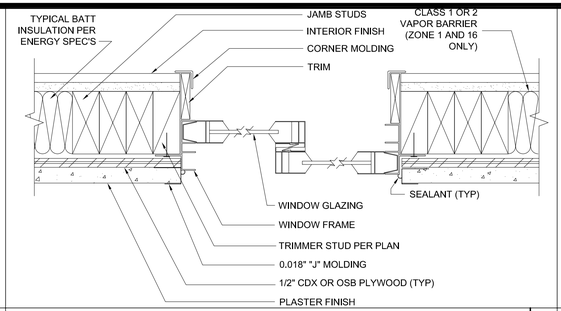
P.C. SHEET NUMBER

A-5.50



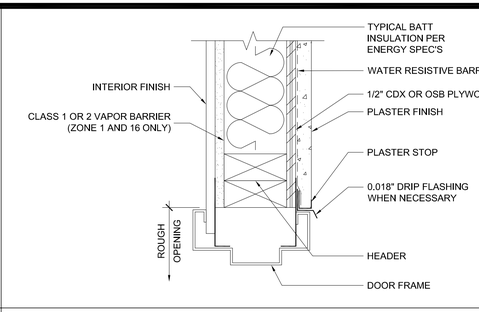

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



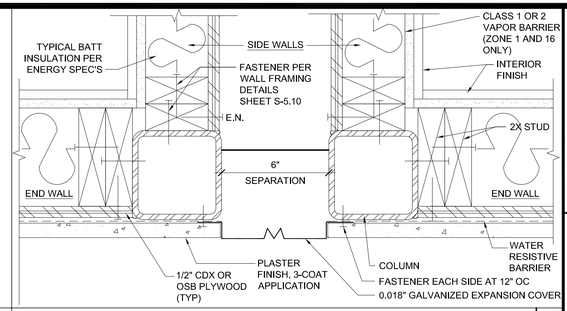

## WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11




## EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



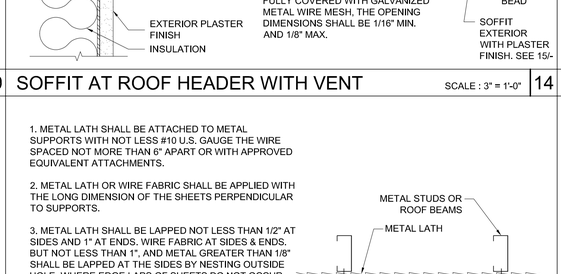

## CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



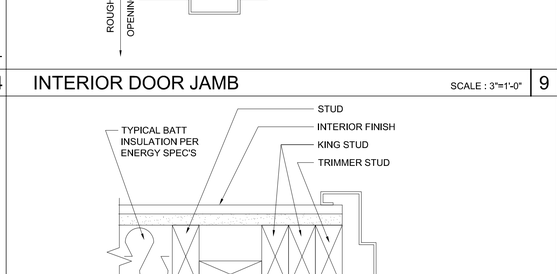

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



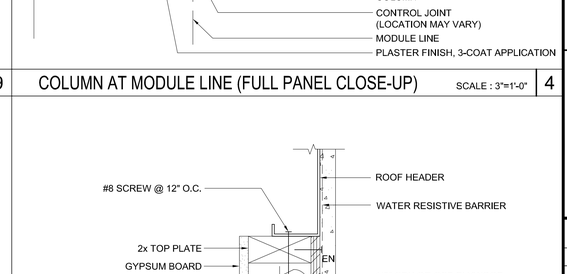

## WINDOW HEADER

SCALE : 3"=1'-0" | 12




## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7




## COLUMN AT CORNER

SCALE : 3"=1'-0" | 2




## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18




## WINDOW SILL

SCALE : 3"=1'-0" | 13




## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8




## COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3

NOT USED | 19




## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




## INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9




## COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 4

NOT USED | 20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.




## METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15




## INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10




## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## WOOD STUD - PLASTER

REVISIONS
02/27/2026 BID SET
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

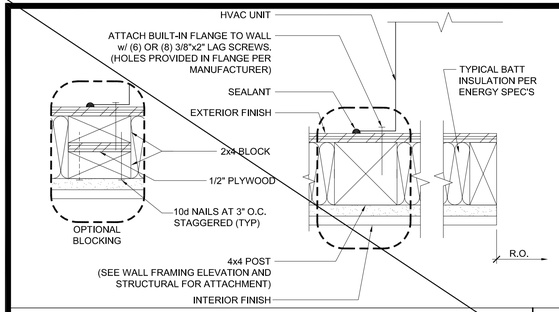
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLAND
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

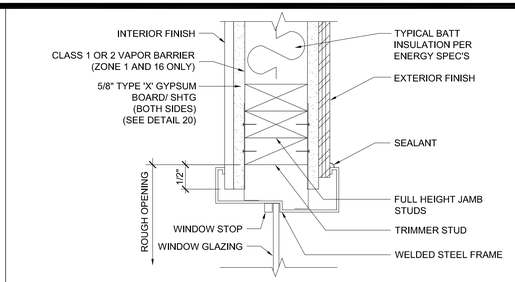
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.51



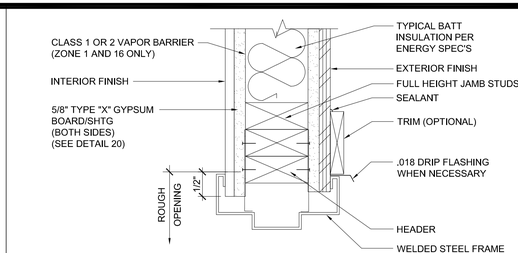

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



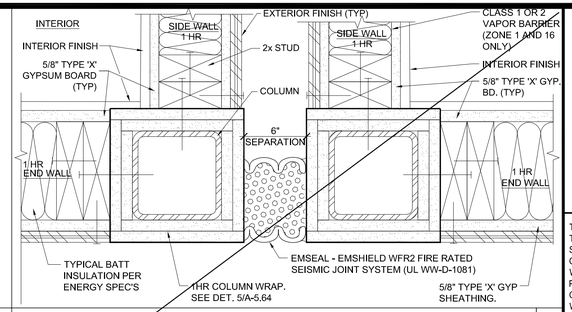

## 1-HR WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



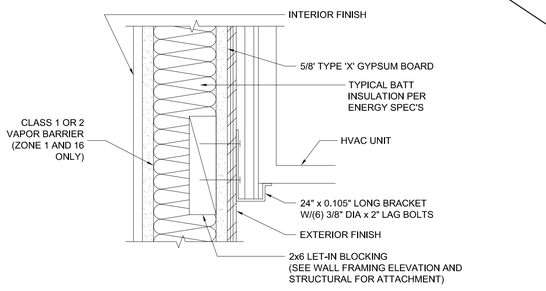

## 1-HR EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



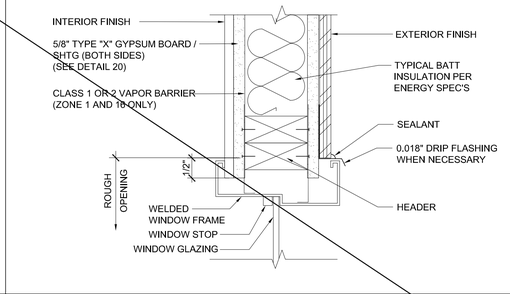

## 1-HR CLOSURE BETWEEN BLDGS

SCALE : 3"=1'-0" | 1



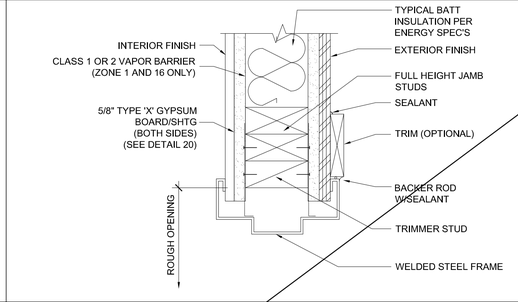

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



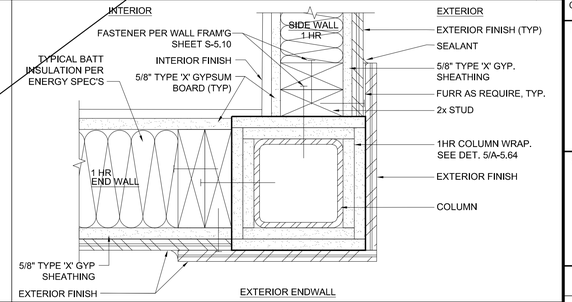

## 1-HR WINDOW SECTION AT HEADER

SCALE : 3"=1'-0" | 12



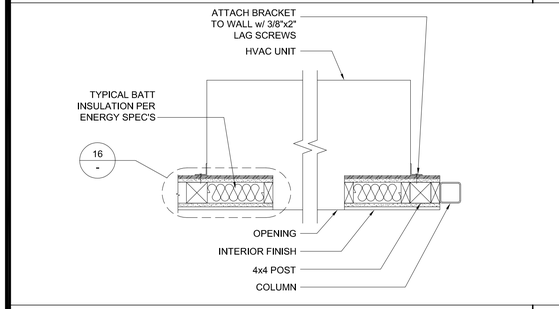

## 1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



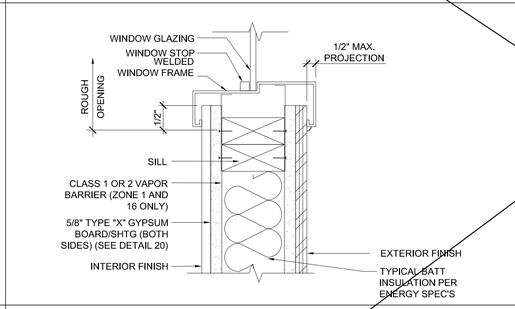

## 1-HR CORNER DETAIL - WOOD STUDS

SCALE : 3"=1'-0" | 2



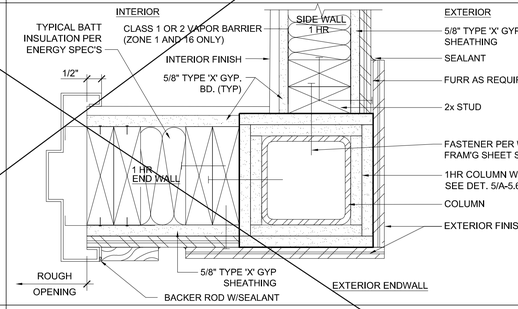

## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



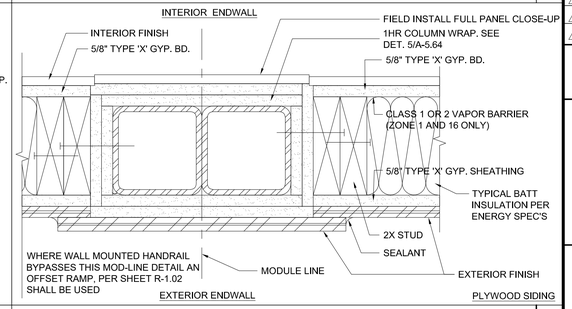

## 1-HR WINDOW SECTION AT SILL

SCALE : 3"=1'-0" | 13




## 1-HR CORNER DETAIL - WOOD STUDS

SCALE : 3"=1'-0" | 8




## 1-HR AT MODLINE CLOSURE - WOOD STUDS

SCALE : 3"=1'-0" | 3

GA FILE No. WP 3510

GYPSUM WALLBOARD, WOOD STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALL BOARD APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915 SHANK, 1/4" HEADS, 7" OC.

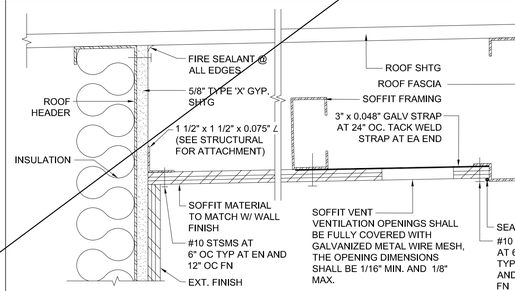
JOINTS STAGGERED 24" ON OPPOSITE SIDES.




| | |
|---|---|
| THICKNESS: | 4-7/8" |
| APPROXIMATE WEIGHT: | 7 PSF |
| FIRE TEST: | UL R3501-47,-48,9-17-65, DESIGN U309; UL R1319-129, 7-22-70, DESIGN U314 |
| SOUND TEST: | NGC 2404, 10-14-70 |

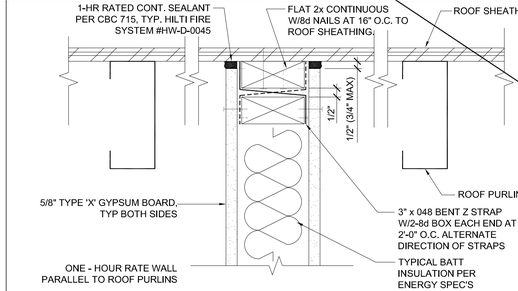
## 1-HOUR INTERIOR ASSEMBLY #WP3510

SCALE: NTS | 19



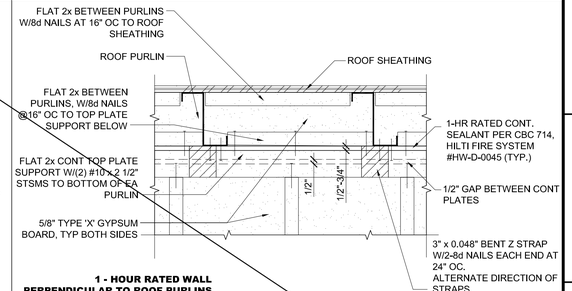

## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 9




## INTERIOR WALL CONNECTION AT ROOF

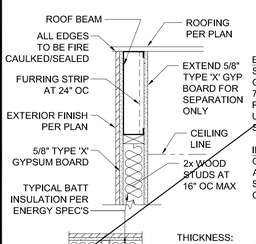
SCALE : 3"=1'-0" | 4

GA FILE No. WP 3605

GYPSUM WALLBOARD, GYPSUM SHEATHING, WOOD STUDS

EXTERIOR SIDE: ONE LAYER 48" WIDE 5/8" TYPE 'X' GYPSUM SHEATHING APPLIED PARALLEL TO STUDS WITH 1 3/4" GALVANIZED ROOFING NAILS 4" O.C. AT VERTICAL JOINTS AND 7" O.C. AT INTERMEDIATE STUDS AND TOP AND BOTTOM PLATES. JOINTS OF GYPSUM SHEATHING MAY BE LEFT UNTREATED. EXTERIOR CLADDING TO BE ATTACHED THROUGH SHEATHING TO STUDS.

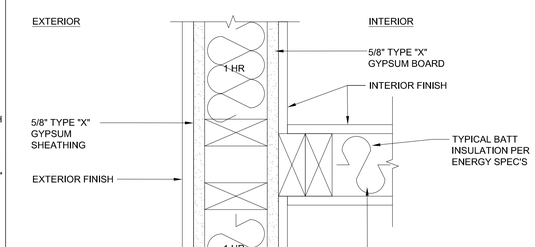
INTERIOR SIDE: ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD, OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. JOINTS STAGGERED 16" ON OPPOSITE SIDES




| | | |
|---|---|---|
| THICKNESS: | VARIES | (UL R3501-47, -48, 9-17-65, |
| APPROX. WEIGHT: | 7 PSF | UL DESIGN U309; |
| FIRE TEST: | SEE WP 3510 | UL R1319-129, 7-22-70, UL DESIGN U314) |

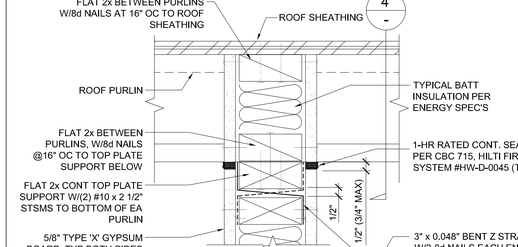
## 1-HOUR EXT. DESIGN #WP3605 (SIDING FINISH)

SCALE: NTS | 20



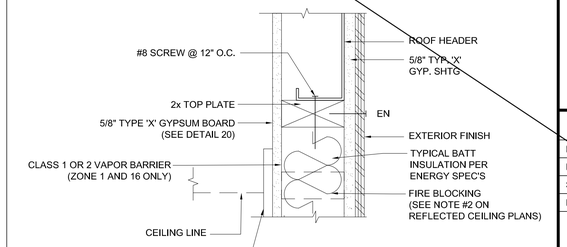

## 1-HR WALL & INTERIOR WALL

SCALE : 3"=1'-0" | 15




## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 10




## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS

## WOOD STUD - WOOD SIDING
## 1 HOUR RATED

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

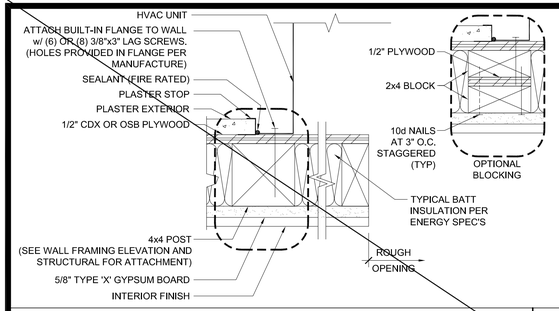
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

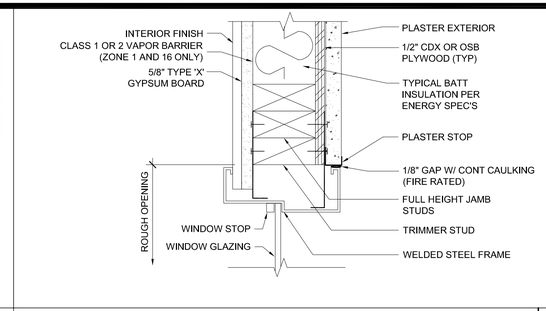
P.C. SHEET NUMBER

A-5.52



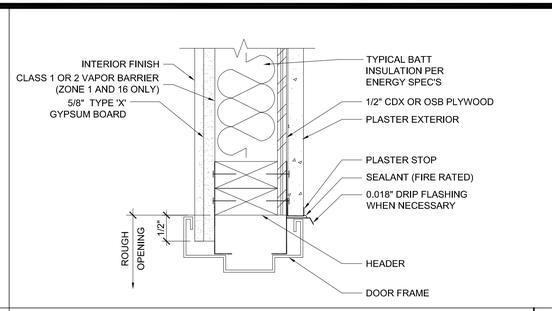

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



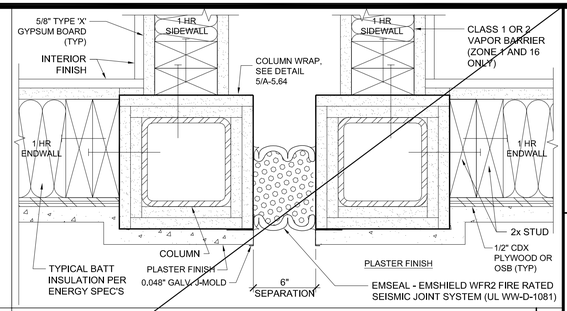

## 1-HR WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



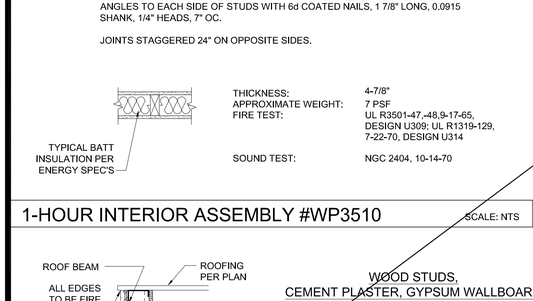

## 1-HR EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



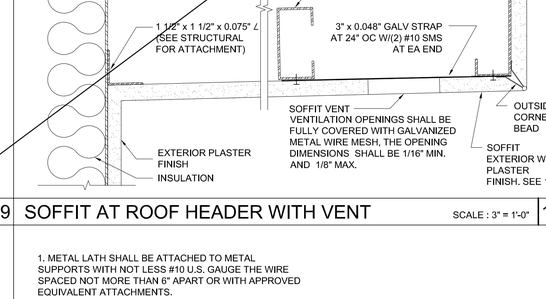

## 1-HR CLOSURE BETWEEN BLDGS

SCALE : 3"=1'-0" | 1



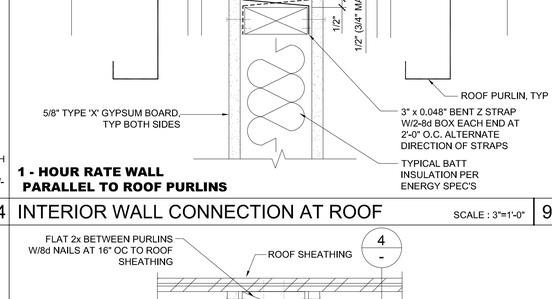

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



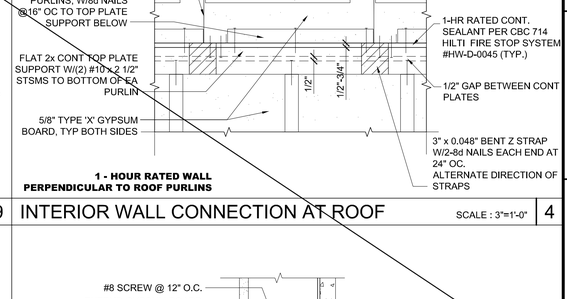

## 1-HR WINDOW SECTION AT HEADER

SCALE : 3"=1'-0" | 12



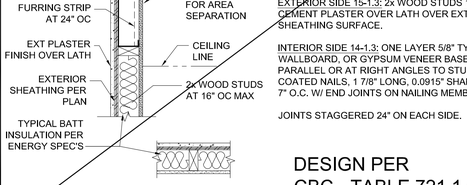

## 1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



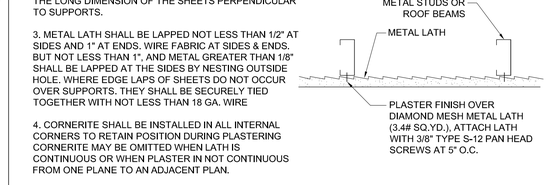

## 1-HOUR CORNER DETAIL

SCALE : 3"=1'-0" | 2



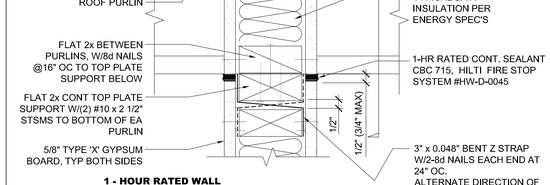

## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



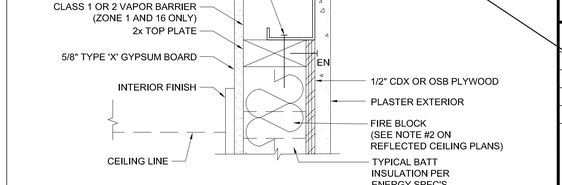

## 1-HR WINDOW SECTION AT SILL

SCALE : 3"=1'-0" | 13




## 1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8




## 1-HR AT MODLINE CLOSURE

SCALE : 3"=1'-0" | 3

GA FILE No. WP 3510

GYPSUM WALLBOARD, WOOD STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALL BOARD APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915 SHANK, 1/4" HEADS, 7" OC.

JOINTS STAGGERED 24" ON OPPOSITE SIDES.




| | |
|---|---|
| THICKNESS: | 4-7/8" |
| APPROXIMATE WEIGHT: | 7 PSF |
| FIRE TEST: | UL R3501-47,-48,9-17-65, DESIGN U309; UL R1319-129, 7-22-70, DESIGN U314 |
| SOUND TEST: | NGC 2404, 10-14-70 |

## 1-HOUR INTERIOR ASSEMBLY #WP3510

SCALE: NTS | 19




## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




**1 - HOUR RATE WALL PARALLEL TO ROOF PURLINS**

## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 9




**1 - HOUR RATED WALL PERPENDICULAR TO ROOF PURLINS**

## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 4




WOOD STUDS,
CEMENT PLASTER, GYPSUM WALLBOARD

EXTERIOR SIDE 15-1.3: 2x WOOD STUDS 16" OC WITH 7/8" CEMENT PLASTER OVER LATH OVER EXTERIOR SHEATHING SURFACE.

INTERIOR SIDE 14-1.3: ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD, OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. W/ END JOINTS ON NAILING MEMBERS.

JOINTS STAGGERED 24" ON EACH SIDE.

DESIGN PER
CBC - TABLE 721.1 (2)

## 1-HOUR EXTERIOR ASSEMBLY (STUCCO FINISH)

SCALE: NTS | 20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS, BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS, THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.




## METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15




**1 - HOUR RATED WALL PERPENDICULAR TO ROOF PURLINS**

## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 10




## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS

## WOOD STUD - PLASTER
## 1 HOUR RATED

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

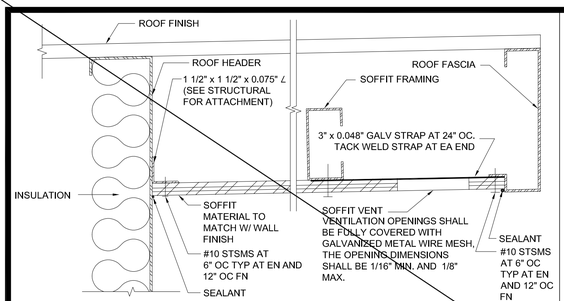
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

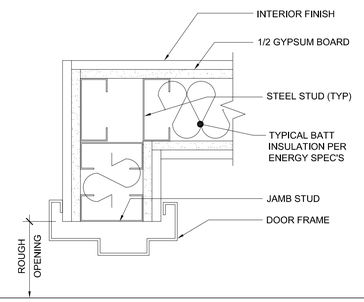
P.C. SHEET NUMBER

A-5.53



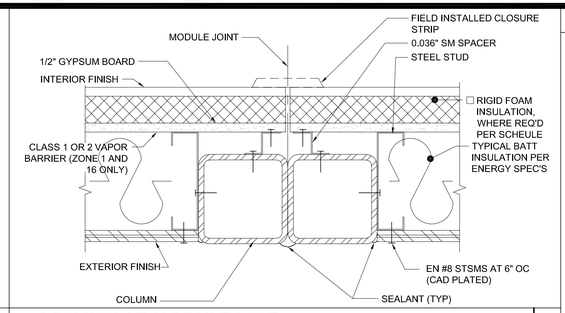

## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




## INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9




## COLUMN AT MODULE LINE

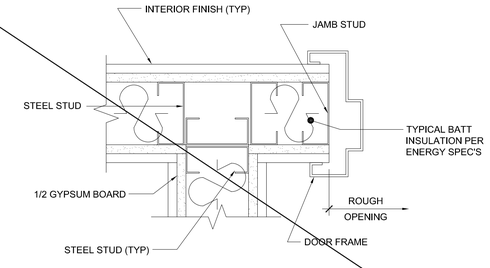
SCALE : 3"=1'-0" | 4

## NOTES

1. ATTACH 1/2" GYPSUM BOARD BACKING WITH TYPE 'S' DRYWALL SCREWS AT 12" OC MAX E.N AND F.N.

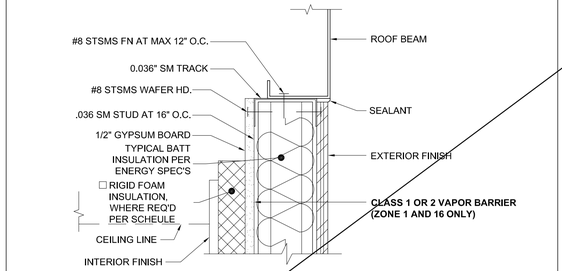
## NOT USED

15



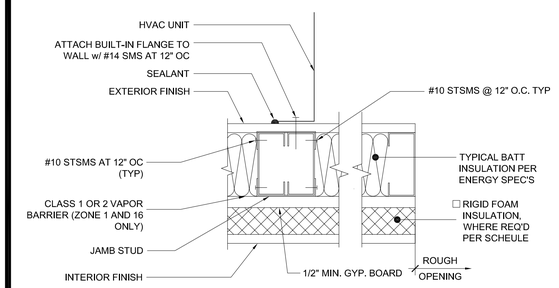

## INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10



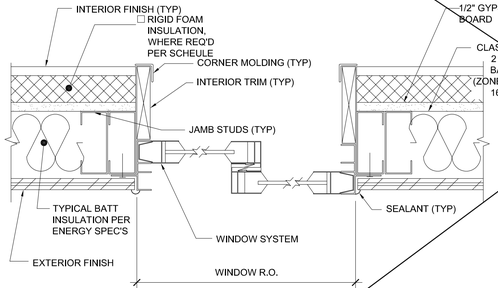

## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5



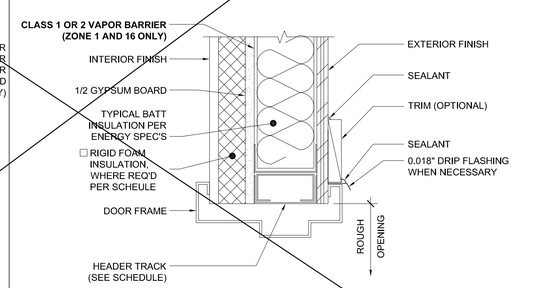

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



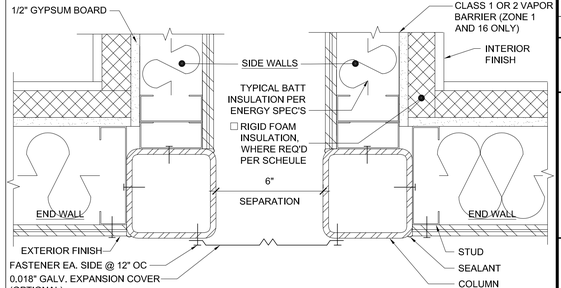

## WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



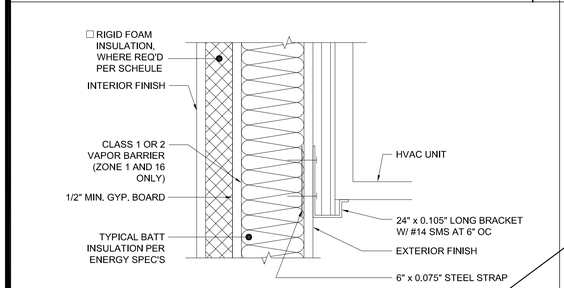

## EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



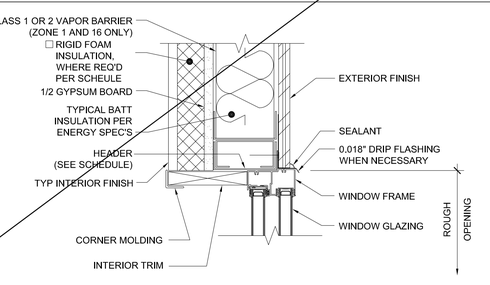

## CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



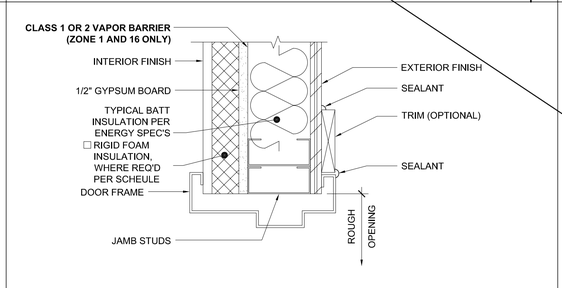

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



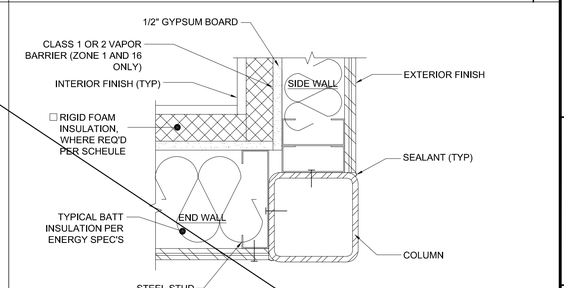

## WINDOW HEADER

SCALE : 3"=1'-0" | 12



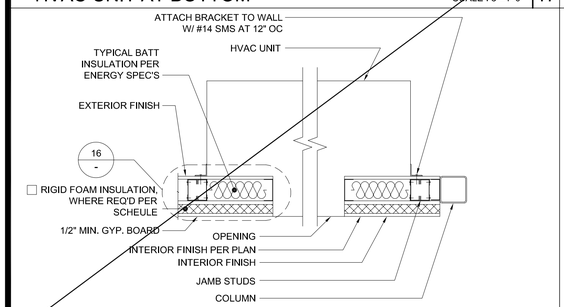

## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



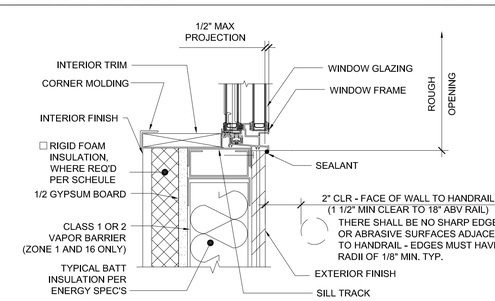

## COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



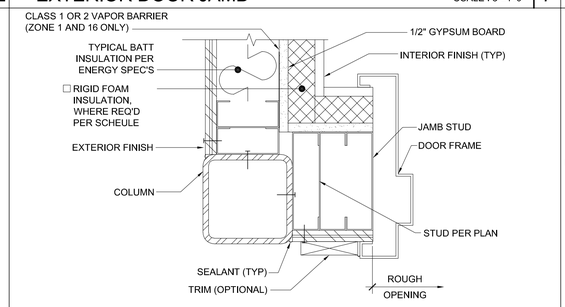

## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



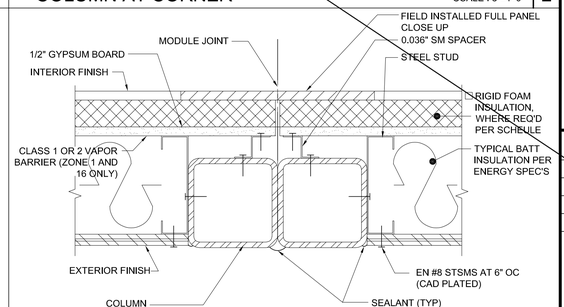

## WINDOW SILL

SCALE : 3"=1'-0" | 13




## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8




## COLUMN AT MODULE LINE

SCALE : 3"=1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## STEEL STUD - SHTG

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

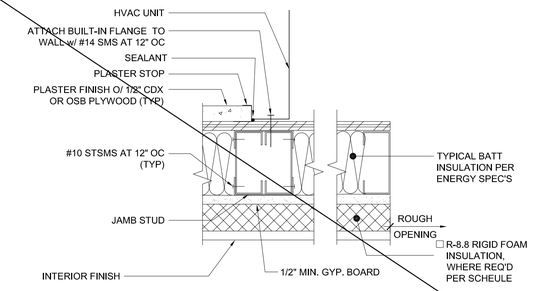
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARKEY
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

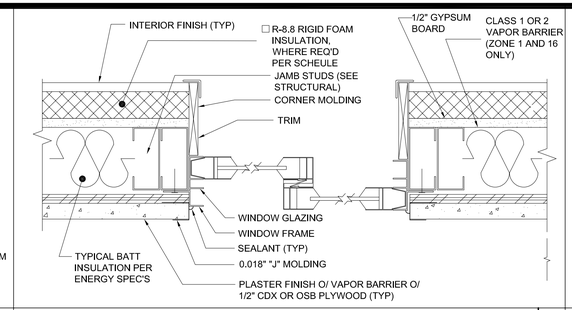
P.C. SHEET NUMBER

A-5.60



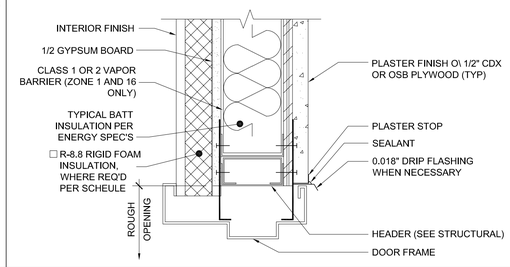

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16




## WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11

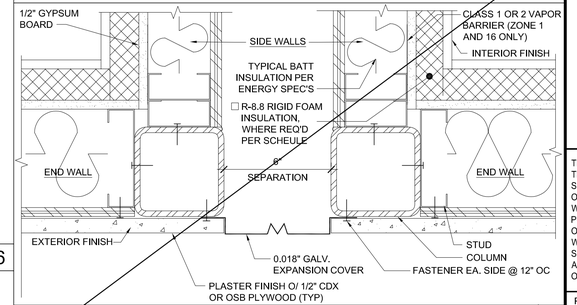



## EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6

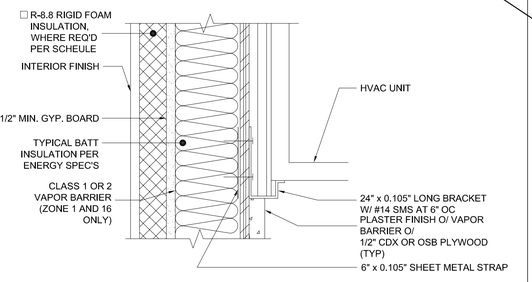
## NOTES

1. ATTACH 1/2" GYPSUM BOARD BACKING WITH TYPE 'S' DRYWALL SCREWS AT 12" OC MAX E.N AND F.N.



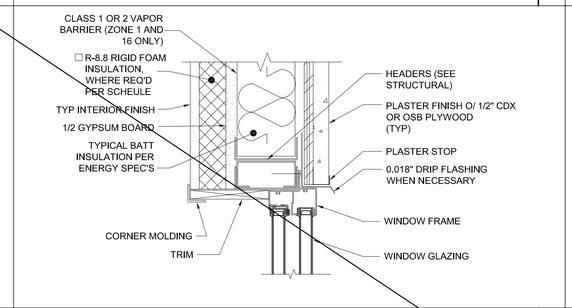

## CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



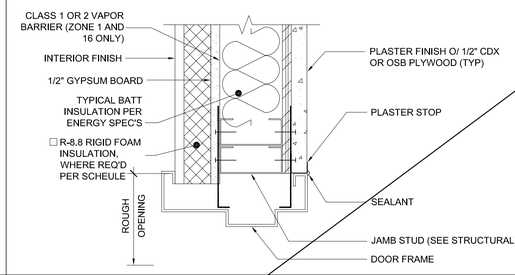

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



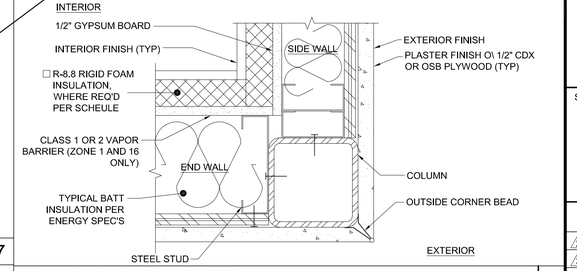

## WINDOW HEADER

SCALE : 3"=1'-0" | 12



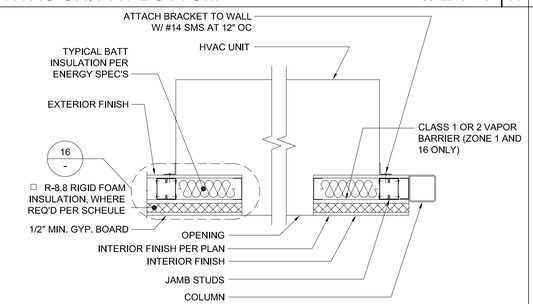

## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



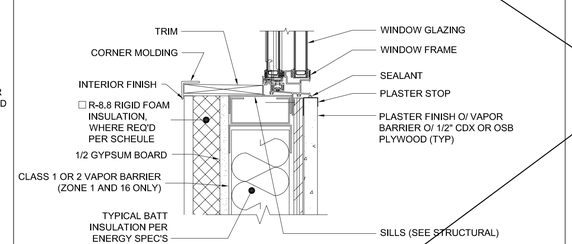

## COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



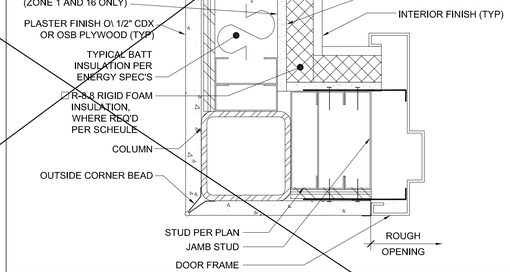

## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



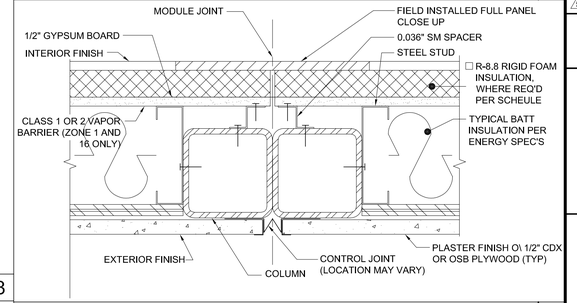

## WINDOW SILL

SCALE : 3"=1'-0" | 13




## EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8

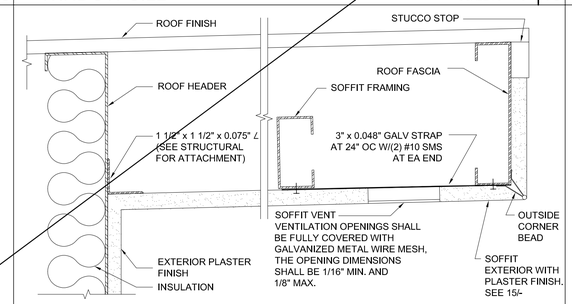



## COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3

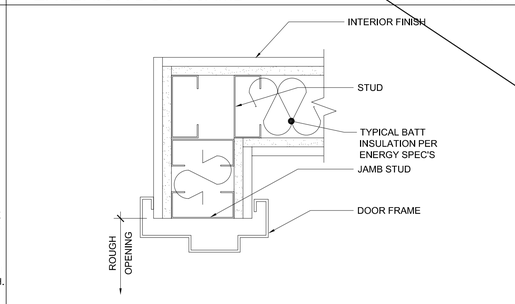
## NOT USED

19



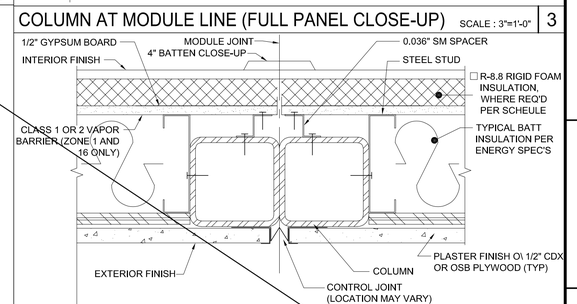

## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




## INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9




## COLUMN AT MODULE LINE (CLOSURE STRIP)

SCALE : 3"=1'-0" | 4

## NOT USED

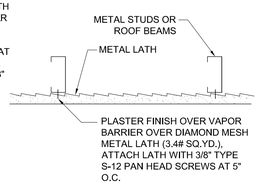
20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.




## METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15




## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## STEEL STUD - PLASTER

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

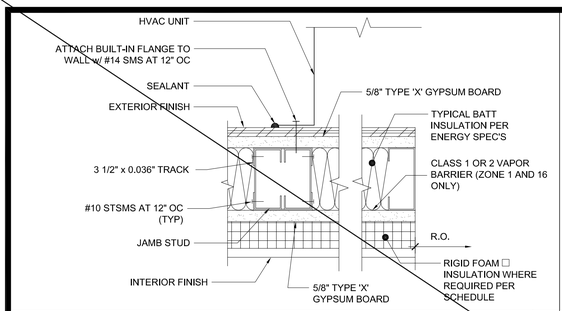
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

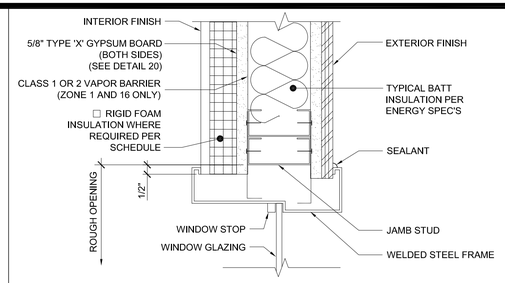
P.C. SHEET NUMBER

A-5.61



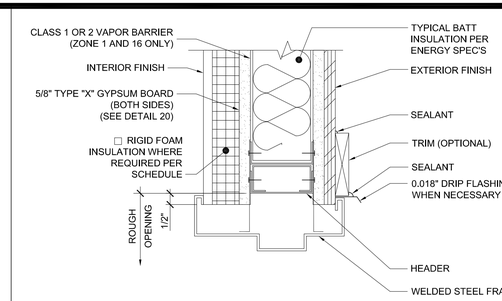

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



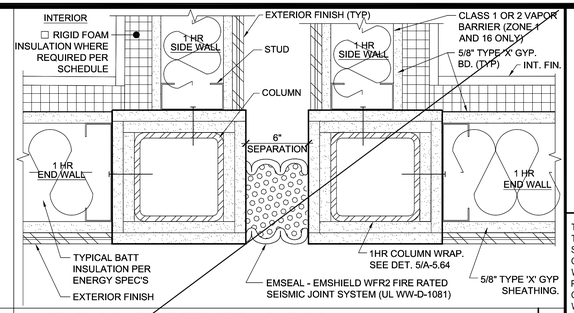

## 1-HR WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



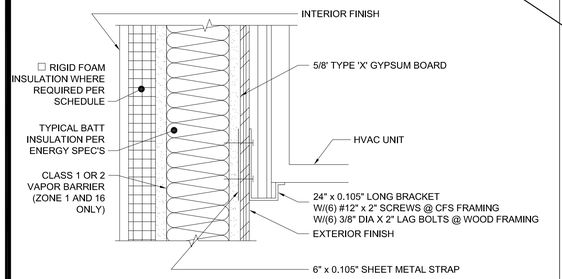

## 1-HR EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



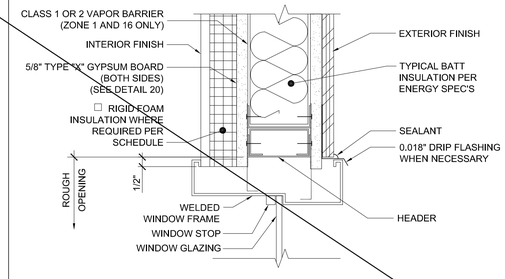

## 1-HR CLOSURE BETWEEN BLDGS

SCALE: 3" = 1'-0" | 1



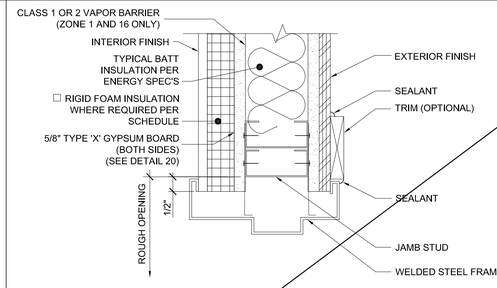

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



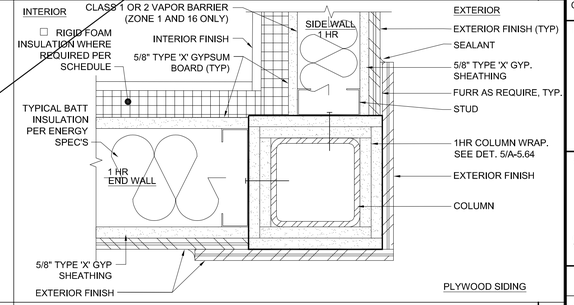

## 1-HR WINDOW SECTION AT HEADER

SCALE : 3"=1'-0" | 12



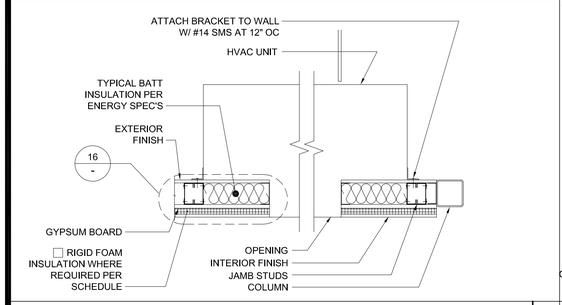

## 1-HOUR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



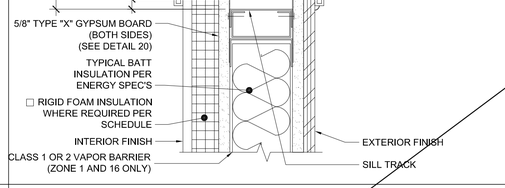

## 1-HR CORNER DETAIL - STEEL STUDS

SCALE: 3" = 1'-0" | 2



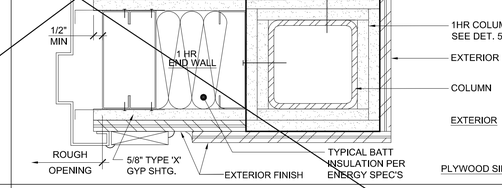

## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



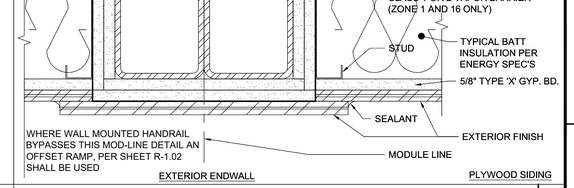

## 1-HR WINDOW SECTION AT SILL

SCALE : 3"=1'-0" | 13




## 1-HR EXTERIOR CORNER DOOR JAMB

SCALE: 3" = 1'-0" | 8




## 1-HR AT MODLINE CLOSURE - STEEL STUDS

SCALE : 3"=1'-0" | 3

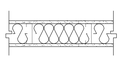
GA FILE NO. WP 1206

GYPSUM WALLBOARD, STEEL STUDS

GENERIC
1 HOUR FIRE
40 TO 44 STC
SOUND

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL TO EACH SIDE OF 3 1/2" 20 GAGE STEEL STUDS 24" OC WITH 1" TYPE S-12 DRYWALL SCREWS 12" OC STUDS ATTACHED TO EACH SIDE OF FLOOR AND CEILING RUNNERS BY WELDING OR WITH 1/2" TYPE S-12 PAN HEAD SCREWS
JOINTS STAGGERED 24" ON OPPOSITE SIDES.

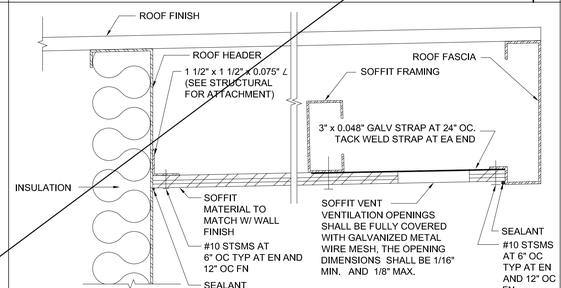
BRACING: LATERAL BRACING SPACED NOT OVER 40" OC SHALL BE 1" BY 18 GAGE STEEL STRAPS ATTACHED TO EACH SIDE OR CHANNEL BRACING ATTACHED TO EACH STUD WITH A CLIP ANGLE. FOR STUDS WITH HOLES OR PUNCH-OUTS IN THE WEB THE "Q" FACTOR SHALL BE DETERMINED BY MEANS OF STUB COLUMN TESTS. TESTED AT 100 PERCENT OF DESIGN LOAD. (LOAD BEARING)



| | |
|---|---|
| THICKNESS: | 4 3/4" |
| APPROX. WT. | 6 psf |
| FIRE TEST: | UL NC 505-2, 7-29-82 |
| | UL DESIGN U425 |
| SOUND TEST: | SEE WP 1350 |
| | (NGC 2385, 7-28-70) |

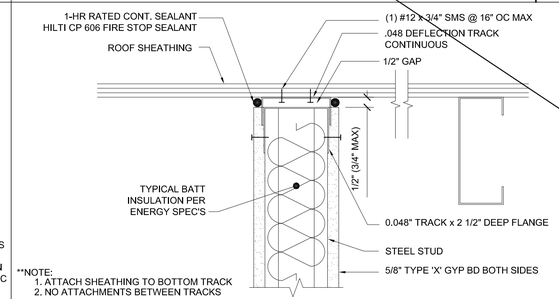
## 1-HOUR INTERIOR ASSEMBLY #WP1206

SCALE: NTS | 19




## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




**NOTE:
1. ATTACH SHEATHING TO BOTTOM TRACK
2. NO ATTACHMENTS BETWEEN TRACKS

## INTERIOR RATED PARTITION

SCALE : 3"=1'-0" | 9

## NOT USED

4

GA FILE NO. WP 8006

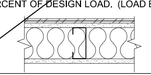
1 HOUR FIRE

GYPSUM WALLBOARD, GLASS MAT GYPSUM SUBSTRATE, STEEL STUDS, MINERAL OR GLASS FIBER INSULATION

EXTERIOR SIDE: ONE LAYER 5/8" TYPE 'X' GLASS MAT GYPSUM SHEATHING APPLIED PARALLEL TO 3½" x 20 GAGE STEEL STUDS 24" OC WITH 1" TYPE S-12, SELF-DRILLING, CORROSION RESISTANT, BUGLE HEAD, DRYWALL SCREWS 12" OC. STUDS ATTACHED TO BOTH VERTICAL LEGS OF FLOOR AND CEILING RUNNERS EITHER BY WELDING OR WITH 1/2" TYPE S-12 PAN HEAD SCREWS. MINERAL OR GLASS FIBER INSULATION FRICTION FIT INTO THE STUD SPACE. EXTERIOR CLADDING TO BE ATTACHED THROUGH GYPSUM PANEL TO STUDS.

INTERIOR SIDE: ONE LAYER ⅝" TYPE 'X' GYPSUM BOARD APPLIED PARALLEL TO STUDS WITH 1" SYPE S-12 DRYWALL SCREWS 12" OC

BRACING: LATERAL BRACING SPACED NOT OVER 40" OC SHALL BE 1" BY 18 GAGE STEEL STRAPS ATTACHED TO EACH SIDE OR CHANNEL BRACING ATTACHED TO EACH STUD WITH A CLIP ANGLE. FOR STUDS WITH HOLES OR PUNCH-OUTS IN THE WEB THE "Q" FACTOR SHALL BE DETERMINED BY MEANS OF STUB COLUMN TESTS. TESTED AT 100 PERCENT OF DESIGN LOAD. (LOAD BEARING)



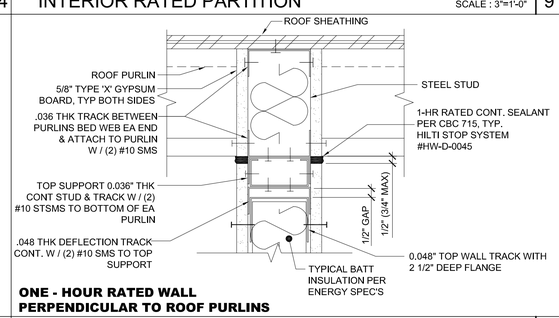
| | |
|---|---|
| THICKNESS: | 4 3/4" |
| APPROX. WT. | 6 PSF |
| FIRE TEST: | UL R3660/R15187, 01NK21103, 2-4-02 |
| | UL DESIGN U425 |

## 1-HOUR EXT. #WP8006 (SIDING FINISH)

SCALE: NTS | 20

## NOT USED

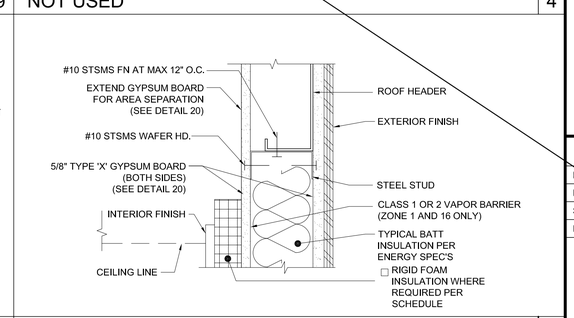
15




**ONE - HOUR RATED WALL PERPENDICULAR TO ROOF PURLINS**

## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 10




## TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## STEEL STUD - 1 HOUR RATED

REVISIONS
02/27/2026 BID SET
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

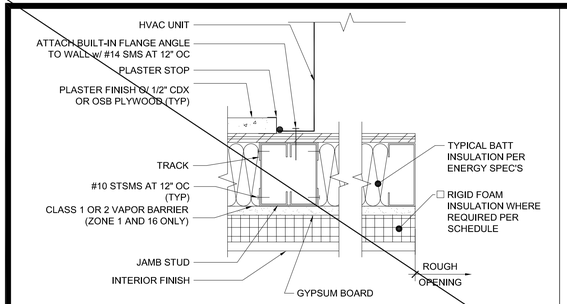
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

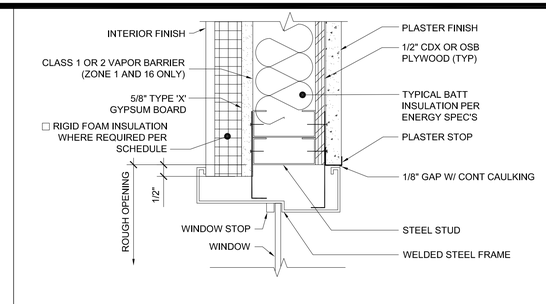
SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-5.62 |



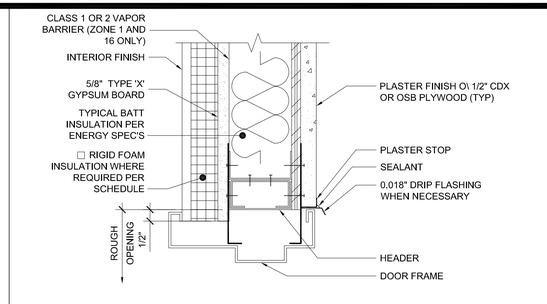

## HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



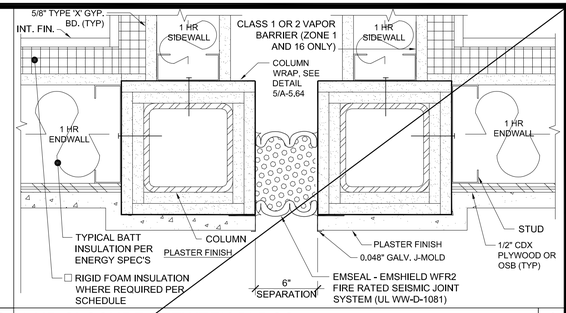

## 1-HR WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



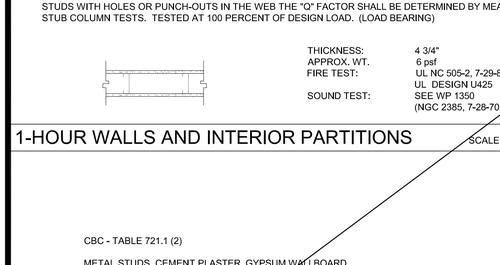

## 1-HR EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



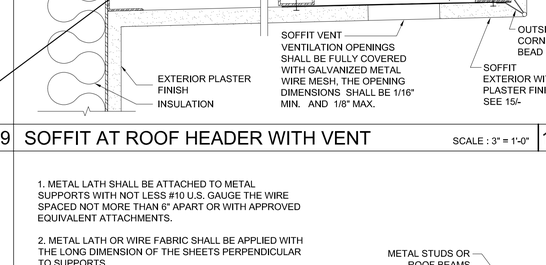

## 1-HR CLOSURE BETWEEN BLDGS

SCALE : 3"=1'-0" | 1



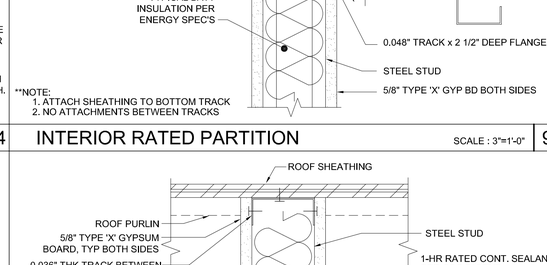

## HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



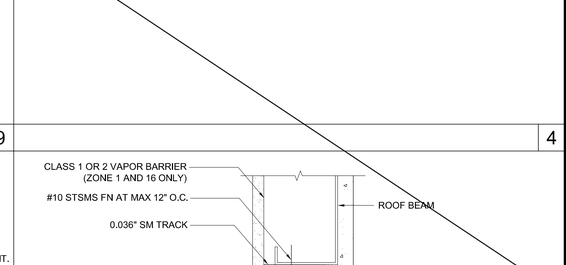

## 1-HR WINDOW SECTION AT HEADER

SCALE : 3"=1'-0" | 12




## 1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7




## 1-HR AT MODLINE CLOSURE - STL STUDS

SCALE : 3"=1'-0" | 2




## HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18




## 1-HR WINDOW SECTION AT SILL

SCALE : 3"=1'-0" | 13




## 1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8




## 1-HR CORNER DETAIL - STL STUDS

SCALE : 3"=1'-0" | 3

GA FILE NO. WP 1206

GYPSUM WALLBOARD, STEEL STUDS

GENERIC
1 HOUR FIRE
40 TO 44 STC
SOUND

ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL TO EACH SIDE OF 3 1/2" 20 GAGE STEEL STUDS 24" OC WITH 1" TYPE S-12 DRYWALL SCREWS 12" OC STUDS ATTACHED TO EACH SIDE OF FLOOR AND CEILING RUNNERS BY WELDING OR WITH 1/2" TYPE S-12 PAN HEAD SCREWS
JOINTS STAGGERED 24" ON OPPOSITE SIDES.

BRACING: LATERAL BRACING SPACED NOT OVER 40" OC SHALL BE 1" BY 18 GAGE STEEL STRAPS ATTACHED TO EACH SIDE OR CHANNEL BRACING ATTACHED TO EACH STUD WITH A CLIP ANGLE. FOR STUDS WITH HOLES OR PUNCH-OUTS IN THE WEB THE "Q" FACTOR SHALL BE DETERMINED BY MEANS OF STUB COLUMN TESTS. TESTED AT 100 PERCENT OF DESIGN LOAD. (LOAD BEARING)

| | |
|---|---|
| THICKNESS: | 4 3/4" |
| APPROX. WT. | 6 psf |
| FIRE TEST: | UL NC 505-2, 7-29-82<br>UL DESIGN U425 |
| SOUND TEST: | SEE WP 1350<br>(NGC 2385, 7-28-70) |



## 1-HOUR WALLS AND INTERIOR PARTITIONS

SCALE: NTS | 19




## SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14




## INTERIOR RATED PARTITION

SCALE : 3"=1'-0" | 9

## 1-HR TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

CBC - TABLE 721.1 (2)

METAL STUDS, CEMENT PLASTER, GYPSUM WALLBOARD

(0.055" NO. 16 CARBON SHEET STEEL GAGE STUDS 24" O.C. MAX.)

EXTERIOR SIDE 15-1.4: 7/8" CEMENT PLASTER OVER LATH OVER EXTERIOR SHEATHING.

INTERIOR SIDE 13-1.3: ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD APPLIED VERTICALLY AND NAILED 7" OC WITH 6d CEMENT - COATED COMMON NAILS. APPROVED METAL FASTENER GRIPS USED WITH NAILS AT VERTICAL BUTT JOINTS ALONG STUDS.



## 1-HOUR EXTERIOR ASSEMBLY (STUCCO FINISH)

SCALE: NTS | 20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS, BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS, THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.




## METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15




## INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 10




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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## STEEL STUD - PLASTER
## 1 HOUR RATED

REVISIONS
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3.
4.
5.

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DATE: 08/31/2023

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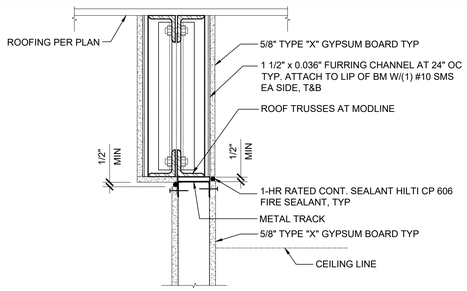
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

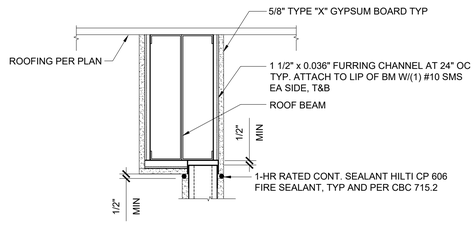
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-5.63 |




NOT USED 15

## 1-HOUR INTERIOR WALL AT MODLINE

SCALE : 1 1/2" = 1'-0" 11




NOT USED 16

## INTERIOR WALL AT MODLINE - 1 HOUR (OPT)

SCALE : 1 1/2" = 1'-0" 12

NOT USED 17

NOT USED 18

NOT USED 19

FIRE RESISTANCE RATING OF A HSS COLUMN

COLUMN SIZE: 4 x 4 x 1/4 (a / b)

| | | |
|---|---|---|
| COLUMN WIDTH | a= | 4.00 |
| COLUMN WIDTH | b= | 4.00 |
| | D= | 16.00 |
| COLUMN #/LINEAR FT | W= | 12.21 |
| THICKNESS OF GYP BD | h= | 1.250 |
| | W= | 19.15 |

| | |
|---|---|
| RATING (MINUTES) | R= 92.99 |
| SHTG REQUIRED FOR 1HR FIRE RESISTANCE RATING | 2 LAYERS OF 5/8" TYPE X SHTG |

FIRE RESISTANCE RATING OF A HSS COLUMN

COLUMN SIZE: 5 x 5 x 1/4 (a / b)

| | | |
|---|---|---|
| COLUMN WIDTH | a= | 5.00 |
| COLUMN WIDTH | b= | 5.00 |
| | D= | 20.00 |
| COLUMN #/LINEAR FT | W= | 15.62 |
| THICKNESS OF GYP BD | h= | 1.250 |
| | W= | 24.30 |

| | |
|---|---|
| RATING (MINUTES) | R= 94.03 |
| SHTG REQUIRED FOR 1HR FIRE RESISTANCE RATING | 2 LAYERS OF 5/8" TYPE X SHTG |

FIRE RESISTANCE RATING OF A HSS COLUMN

COLUMN SIZE: 6 x 6 x 1/4 (a / b)

| | | |
|---|---|---|
| COLUMN WIDTH | a= | 6.00 |
| COLUMN WIDTH | b= | 6.00 |
| | D= | 24.00 |
| COLUMN #/LINEAR FT | W= | 19.02 |
| THICKNESS OF GYP BD | h= | 1.250 |
| | W= | 29.44 |

| | |
|---|---|
| RATING (MINUTES) | R= 94.70 |
| SHTG REQUIRED FOR 1HR FIRE RESISTANCE RATING | 2 LAYERS OF 5/8" TYPE X SHTG |

## 1-HOUR COLUMN PROTECTION 13

NOT USED 8

NOT USED 9

1 LAYER GYPSUM WALLBOARD,
STEEL COLUMN COVER
PER 2022 CBC SECTION 722.5.1.2

BASE LAYER MIN. 5/8" TYPE X GYPSUM WALLBOARD APPLIED VERTICALLY AROUND TUBE STEEL COLUMN WITH NO HORIZONTAL JOINTS AND HELD IN PLACE WITH PAPER MASKING TAPE. FACE LAYER EITHER NO. 24 MSG GALVANIZED STEEL COLUMN COVER CONSISTING OF TWO L-SHAPED SECTIONS WITH SNAP-LOCK SHEET STEEL JOINTS OR NO. 22 MSG GALVANIZED STEEL COLUMN COVERS CONSISTING OF TWO L-SHAPED SECTIONS WITH LAP JOINTS FASTENED WITH NO. 8x1/2" SHEET METAL SCREWS 12" O.C.

2 LAYER GYPSUM WALLBOARD,
STEEL COLUMN COVER
PER 2022 CBC SECTION 722.5.1.2

BASE LAYER MIN. 5/8" TYPE X GYPSUM WALLBOARD APPLIED AROUND TUBE STEEL COLUMN AND HELD IN PLACE WITH PAPER MASKING TAPE. SECOND LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AROUND COLUMN AND HELD IN PLACE WITH PAPER MASKING TAPE. HORIZONTAL JOINTS MUST BE SPACED AT 8' MIN. AND STAGGERED 12" AT SUCCESSIVE LAYERS. FACE LAYER EITHER NO. 24 MSG GALVANIZED STEEL COLUMN COVER CONSISTING OF TWO L-SHAPED SECTIONS WITH SNAP-LOCK SHEET STEEL JOINTS OR NO. 22 MSG GALVANIZED STEEL COLUMN COVERS CONSISTING OF TWO L-SHAPED SECTIONS WITH LAP JOINTS FASTENED WITH NO. 8x1/2" SHEET METAL SCREWS 12" O.C.

## 1-HOUR COLUMN PROTECTION -

SCALE: NTS 5

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# ARCHITECTURAL DETAILS
## 1 HOUR RATED OPTIONS

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DATE: 08/31/2023

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

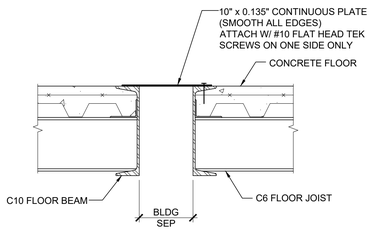
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

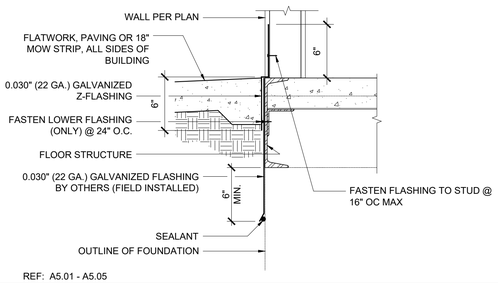
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.64



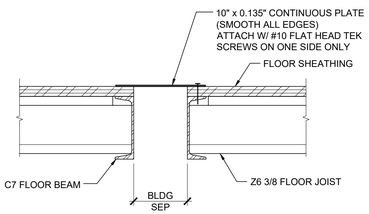

REF: A1.03

## FLOOR AT SEPARATION (CONCRETE FLR) SCALE : 1 1/2"=1'-0" 16



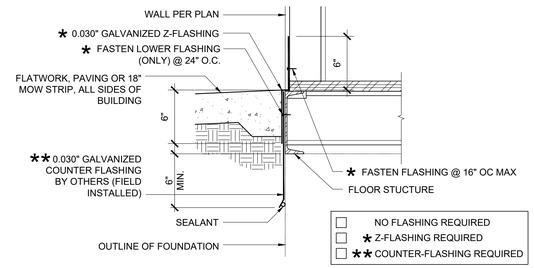

REF: A5.01 - A5.05

## SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 11



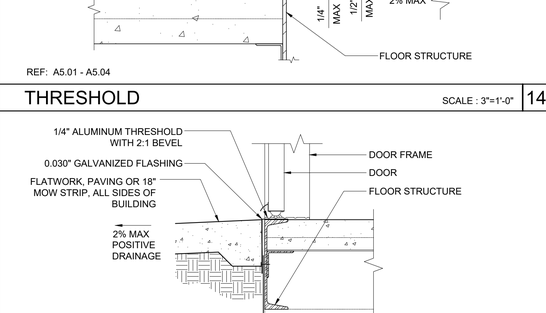

REF: A1.03

## FLOOR AT SEPARATION (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 6




REF: A5.01 - A5.05

## SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 1



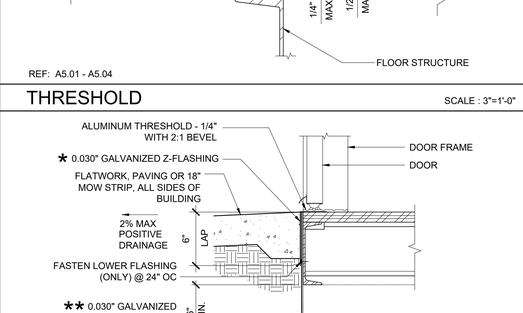

REF: A5.01 - A5.05

## SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 12

NOTE:

1. WHEN THE BUILDING IS INSTALLED AT GROUND LEVEL (BELOW GRADE FOUNDATION OPTION) DETAILS 1,2,5,11,12+15 CAN ONLY BE USED WHERE THE BUILDING SIZE DOES NOT EXCEED 2,160 SF. SEE SHEETS A-5.71 THRU A-5.78 FOR ALTERNATE FLASHING DETAILS FOR BUILDINGS LARGER THAN 2,160 SF.
2. THE DETAILS ON SHEETS A-5.71 THRU A-5.78 MAY BE USED FOR BUILDINGS LESS THAN 2,160 SF.
3. FOR BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATION SYSTEMS (WOOD FOUNDATION OR CONCRETE FOUNDATION WITH ABOVE GRADE STEMWALL) THE DETAILS SHOWN ON THIS SHEET MAY BE USED FOR ANY SIZE BUILDING.
4. FOR BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATION SYSTEMS (WOOD FOUNDATION OR CONCRETE FOUNDATION WITH ABOVE GRADE STEMWALL) THE FLATWORK/PAVING/MOW STRIP WHICH IS INDICATED IN THE DETAILS ON THIS SHEET SHALL BE OMITTED.

## 7




REF: A5.01 - A5.05

## SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 2




REF: A1.01 - A1.03

## FLOOR AT MODLINE (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 13




REF: A1.01 - A1.03

## FLOOR AT MODLINE (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 3




REF: A5.01 - A5.04

## THRESHOLD SCALE : 3"=1'-0" 14




REF: A5.01 - A5.04

## THRESHOLD SCALE : 3"=1'-0" 4




REF: A5.01 - A5.04

## TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 15




## WALL BASE AT TOILET ROOMS SCALE : 1 1/2"=1'-0" 10




REF: A5.01 - A5.04

## TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 5

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## FLOOR

REVISIONS
02/27/2026 BID SET
2
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DATE: 08/31/2023

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
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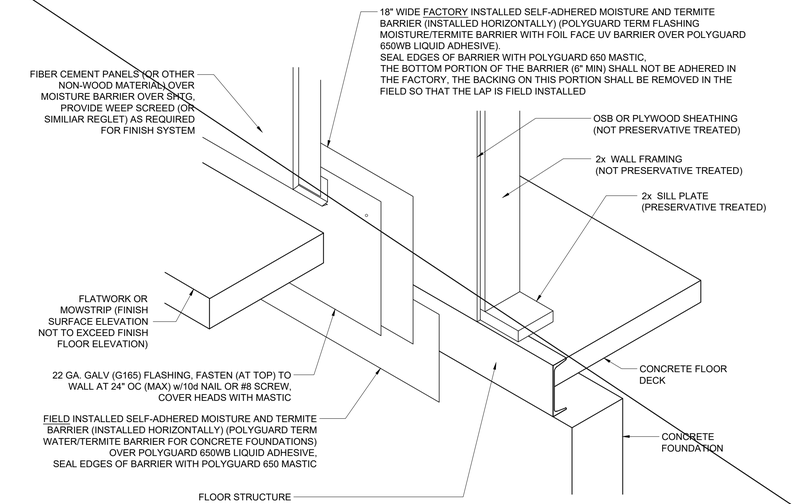
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

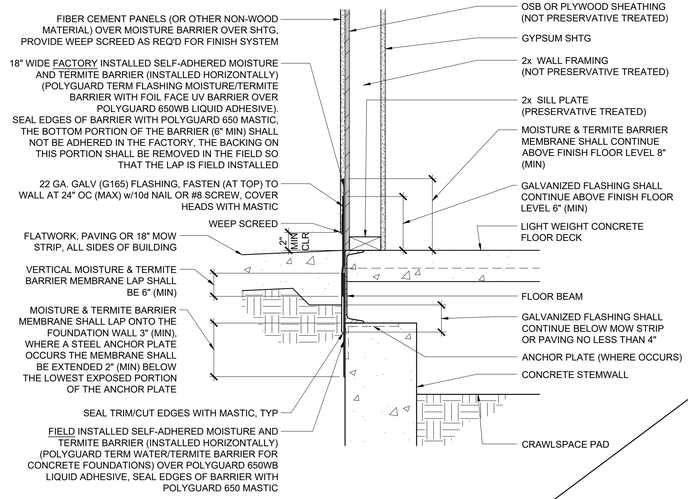
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P.C. SHEET NUMBER
A-5.70




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

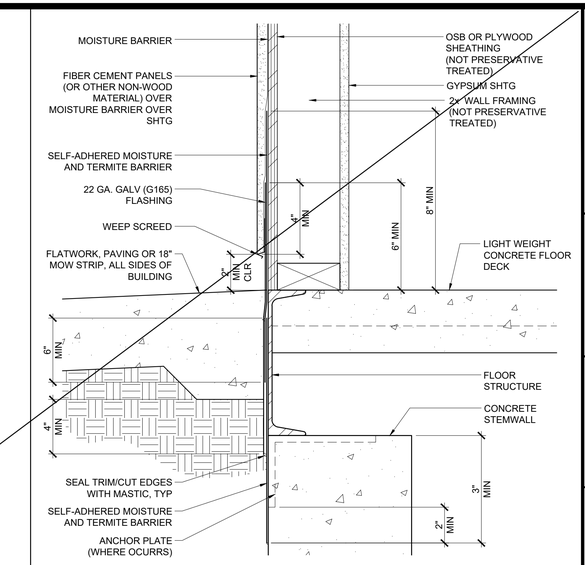



NOTE:
WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S) (WHERE OCCURS) THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

SECTION VIEW

## DETERIORATION PROTECTION

SCALE : NTS | 7




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



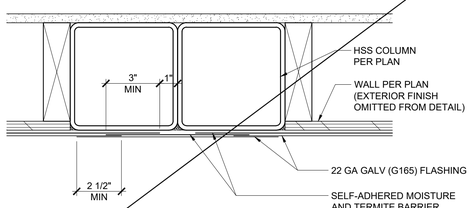

OUTSIDE CORNER




INSIDE CORNER

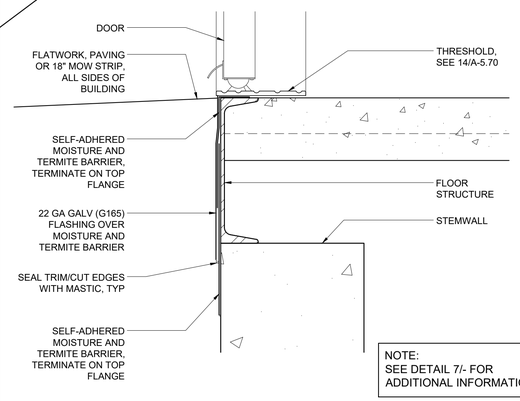
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
SEE DETAIL 7/- FOR ADDITIONAL INFORMATION

## DETERIORATION PROTECTION @ THRESHOLD

15

**MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS**

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET. SEE DETAIL 14/-
- WHERE ARE MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED WITHIN 1" OF THE EDGE OF THE MODULE. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
- WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM
- REFER TO DETAIL 20/- FOR MODLINE DETERIORATION PROTECTION

**REPAIR REQUIREMENTS**

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

1. WHERE THE DAMAGE MEASURES LESS THAN ½" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASURES MORE THAN ½", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTION.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVE AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

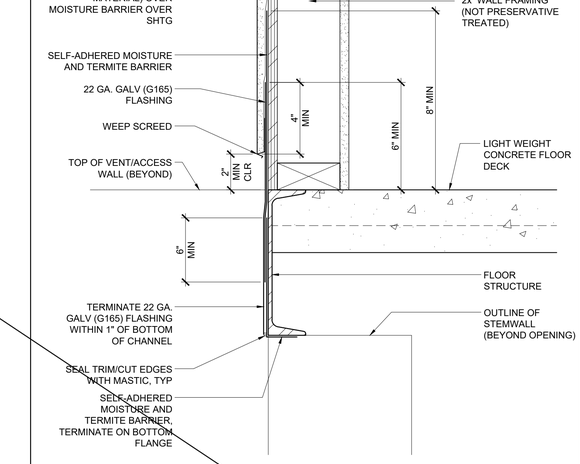
**INSPECTION REQUIREMENTS**

THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

## DETERIORATION PROTECTION REQUIREMENTS

10




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION NON-WOOD FINISH SIDING CONC FLOOR - WD STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

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PHONE: 951-943-5393 FAX: 951-943-2211

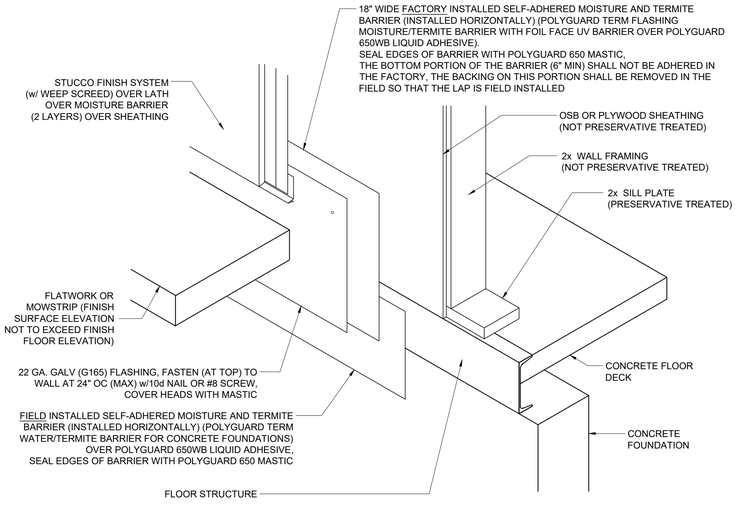
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

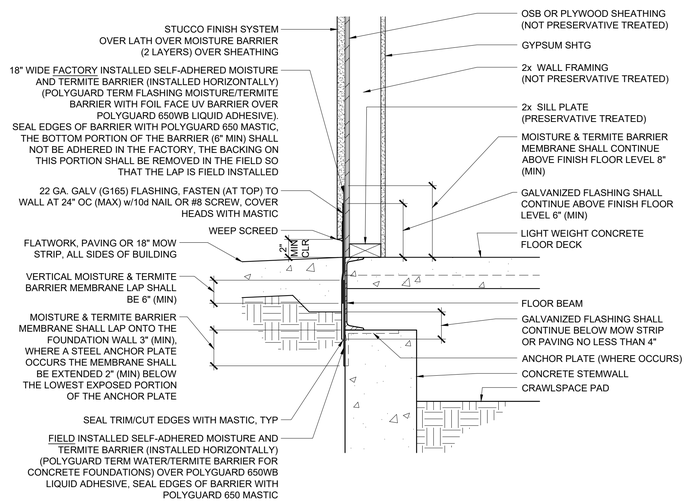
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SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.71




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

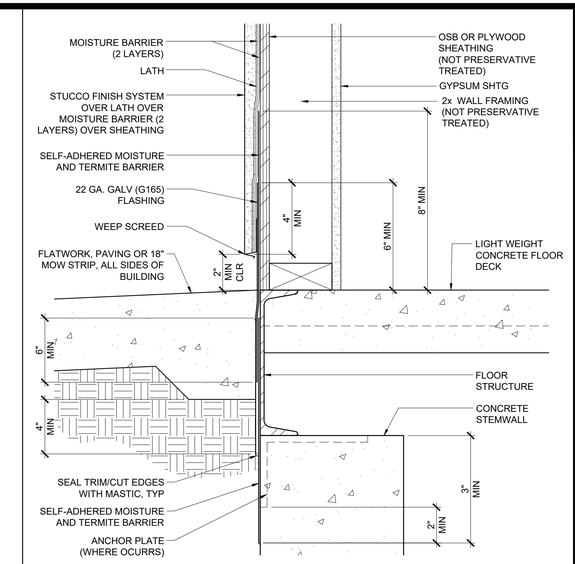



NOTE:
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SECTION VIEW

## DETERIORATION PROTECTION

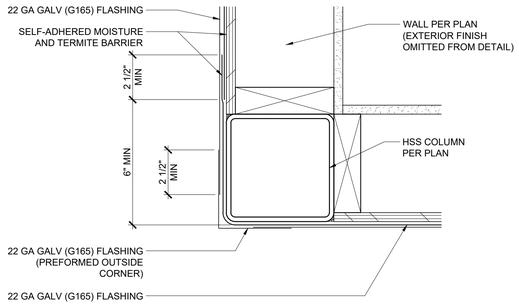
SCALE : NTS | 7



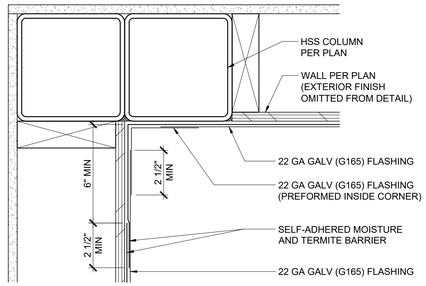

NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



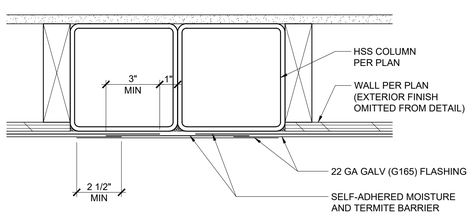

OUTSIDE CORNER




INSIDE CORNER

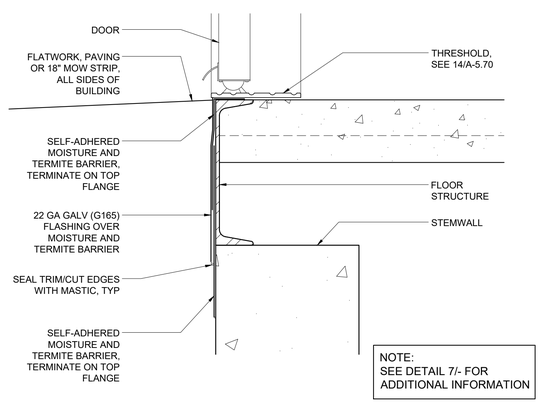
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
SEE DETAIL 7/- FOR ADDITIONAL INFORMATION

## DETERIORATION PROTECTION @ THRESHOLD

SCALE : NTS | 15

**MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS**

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**REPAIR REQUIREMENTS**

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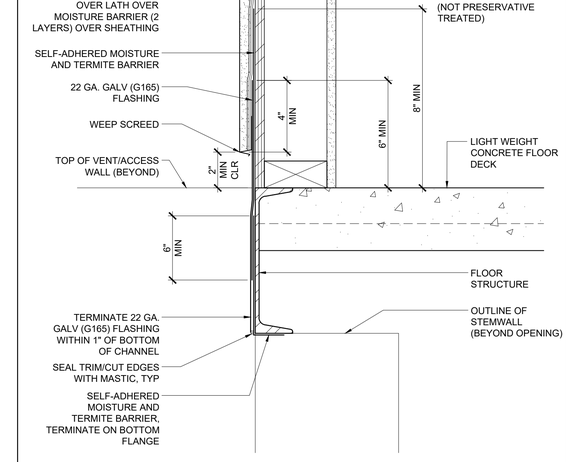
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## DETERIORATION PROTECTION REQUIREMENTS

10




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION
# STUCCO EXTERIOR FINISH
# CONC FLOOR - WD STUDS

REVISIONS
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2
3
4
5

PRE-CHECK (PC) DOCUMENT
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

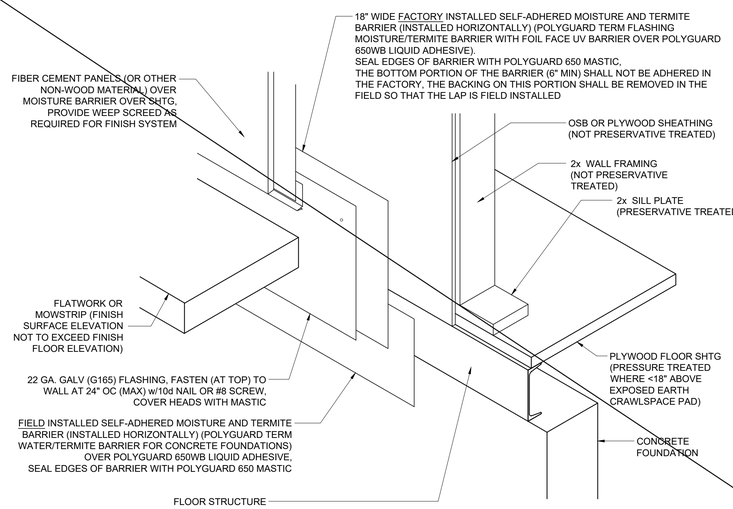
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

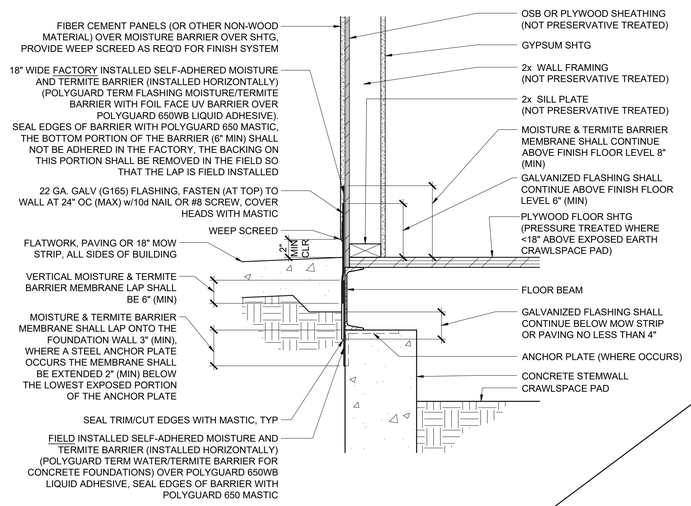
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.72




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

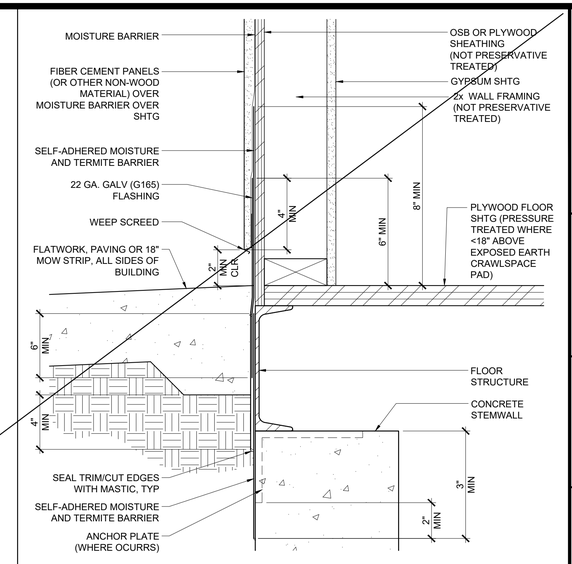



NOTE:
WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S) (WHERE OCCURS) THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

SECTION VIEW

## DETERIORATION PROTECTION

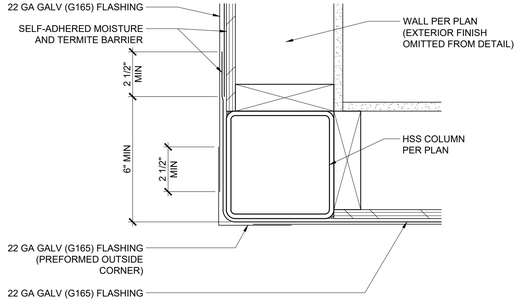
SCALE : NTS | 7



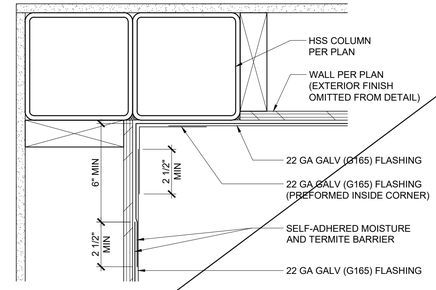

NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2




OUTSIDE CORNER




INSIDE CORNER

## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14

**MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS**

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET. SEE DETAIL 14/-
- WHERE ARE MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED WITHIN 1" OF THE EDGE OF THE MODULE. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULE ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
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- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM
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**REPAIR REQUIREMENTS**

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

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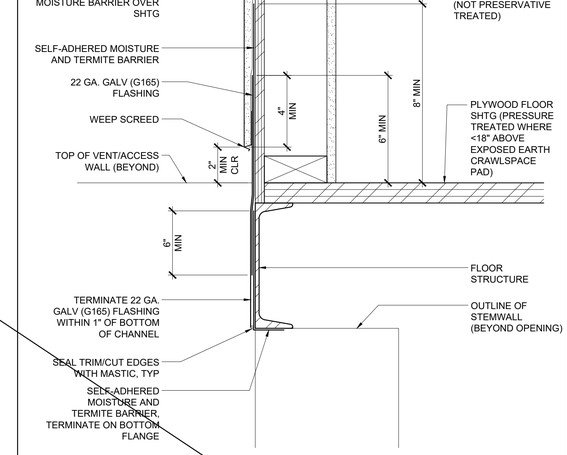
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## DETERIORATION PROTECTION REQUIREMENTS

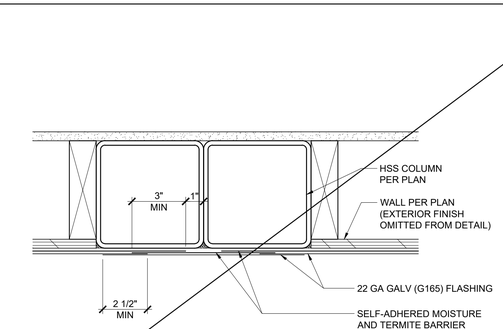
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NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

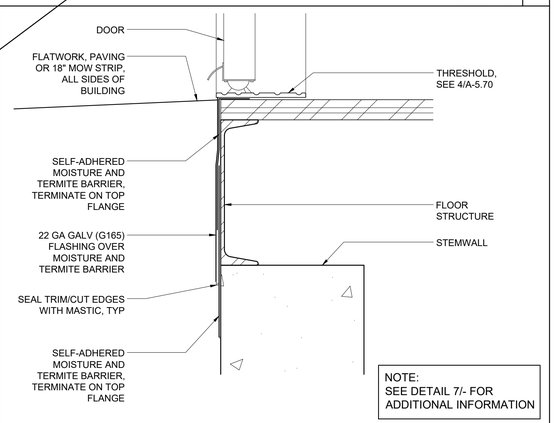
## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
SEE DETAIL 7/- FOR ADDITIONAL INFORMATION

## DETERIORATION PROTECTION @ THRESHOLD

15

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION NON-WOOD FINISH SIDING WOOD FLOOR - WD STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

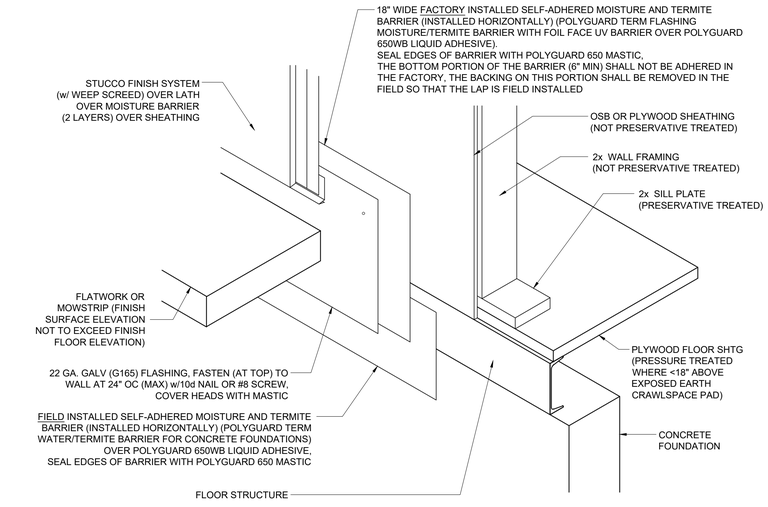
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

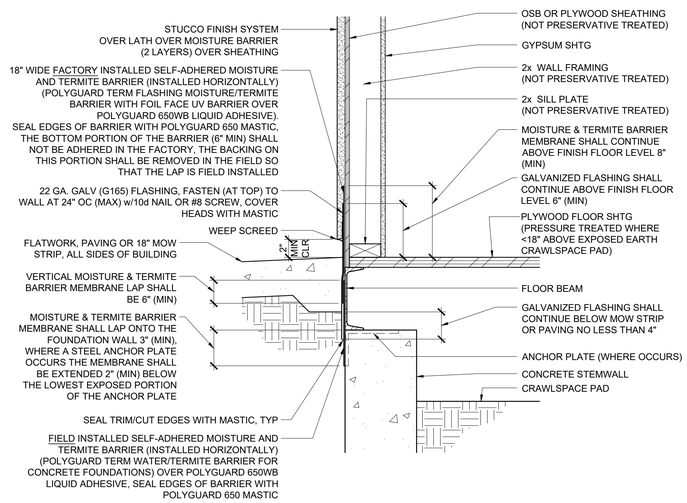
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.73




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

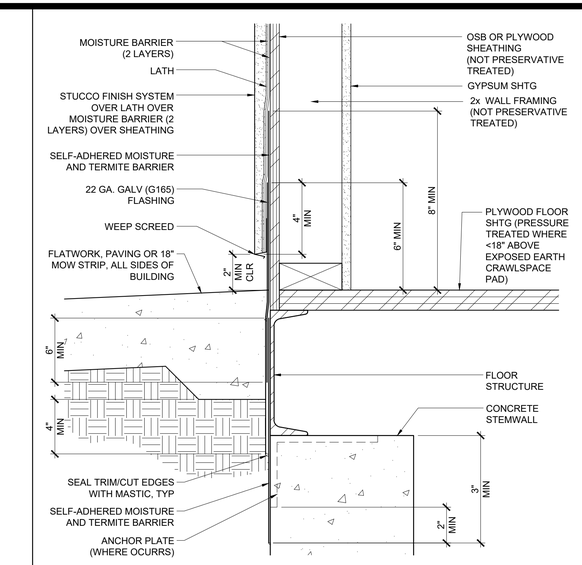



NOTE:
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SECTION VIEW

## DETERIORATION PROTECTION

SCALE : NTS | 7




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



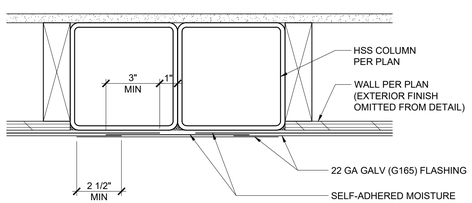

OUTSIDE CORNER




INSIDE CORNER

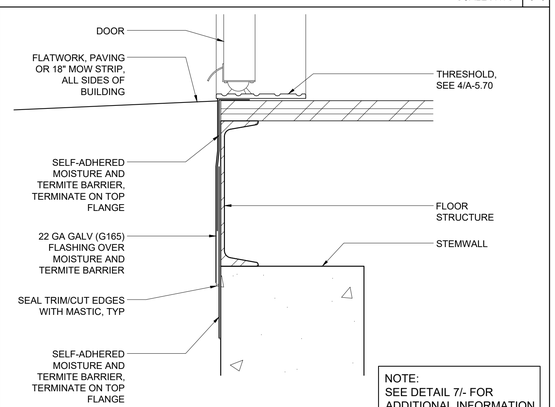
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
SEE DETAIL 7/- FOR ADDITIONAL INFORMATION

## DETERIORATION PROTECTION @ THRESHOLD

15

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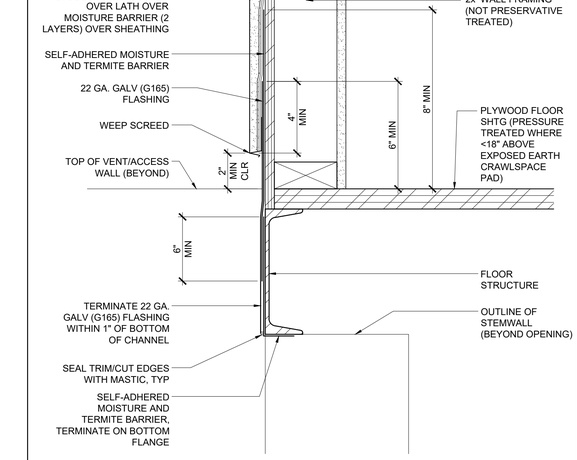
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## DETERIORATION PROTECTION REQUIREMENTS

10




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION
# STUCCO EXTERIOR FINISH
# WOOD FLOOR - WD STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

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PHONE: 951-943-5393 FAX: 951-943-2211

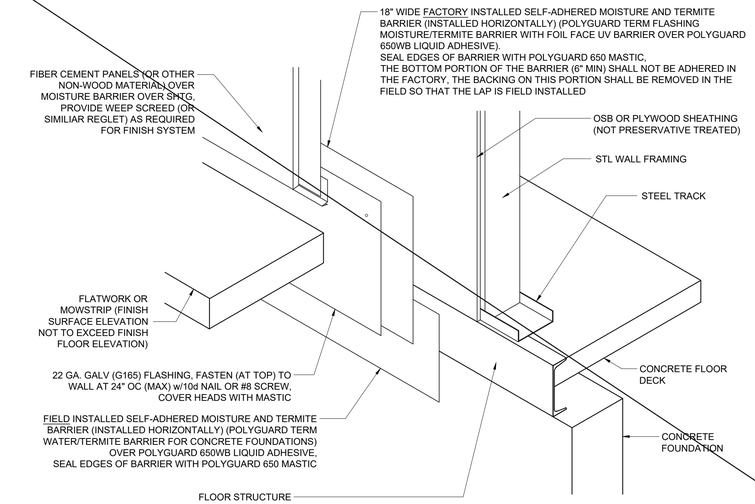
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
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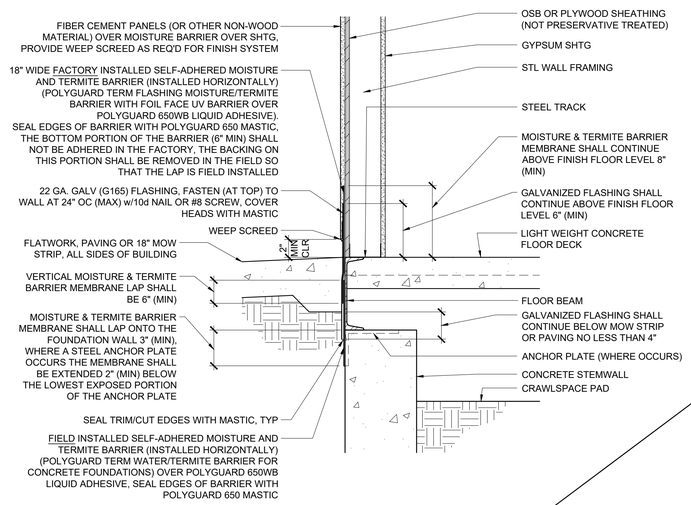
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DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.74




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

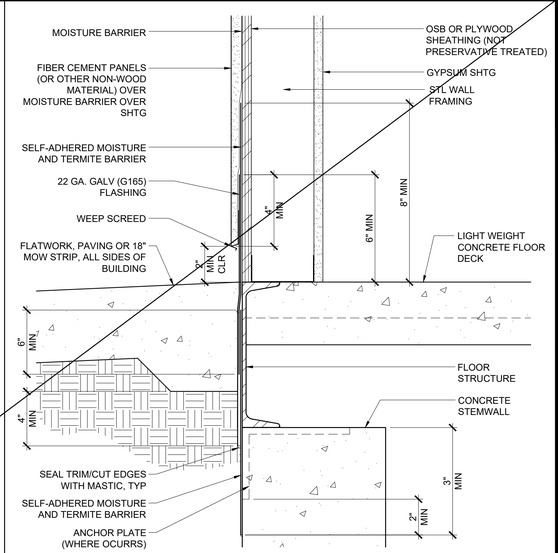



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SECTION VIEW

## DETERIORATION PROTECTION

SCALE : NTS | 7




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



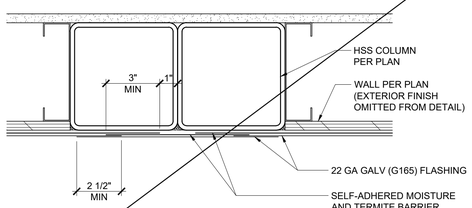

OUTSIDE CORNER




INSIDE CORNER

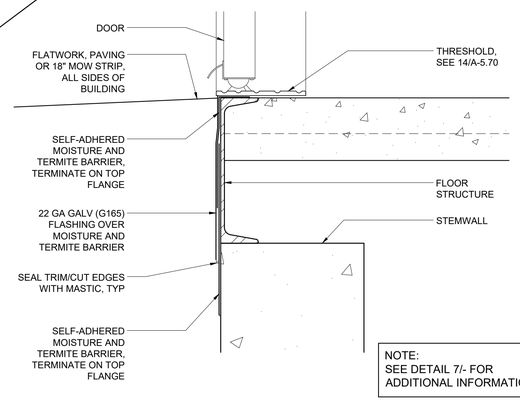
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
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## DETERIORATION PROTECTION @ THRESHOLD

15

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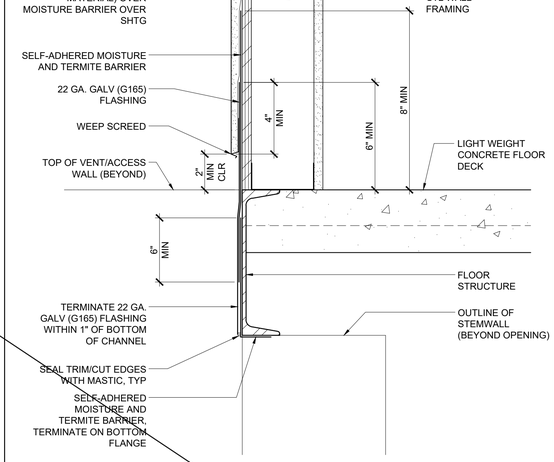
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## DETERIORATION PROTECTION REQUIREMENTS

10




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION
# NON-WOOD FINISH SIDING
# CONC FLOOR - STL STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
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PRE-CHECK (PC) DOCUMENT
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

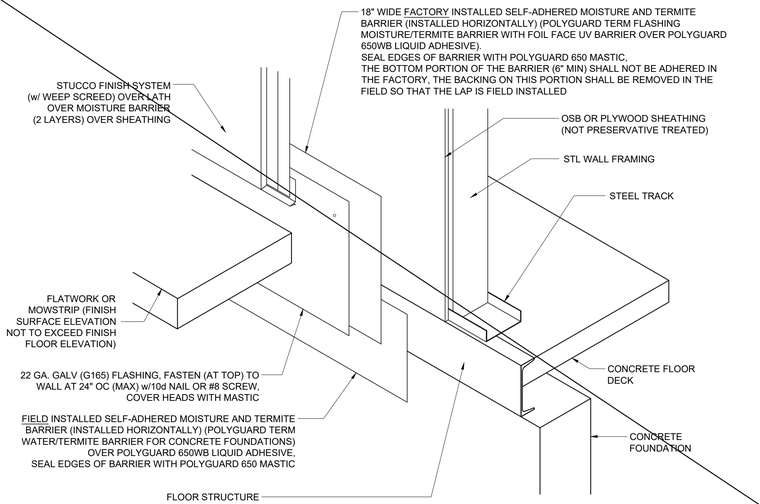
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
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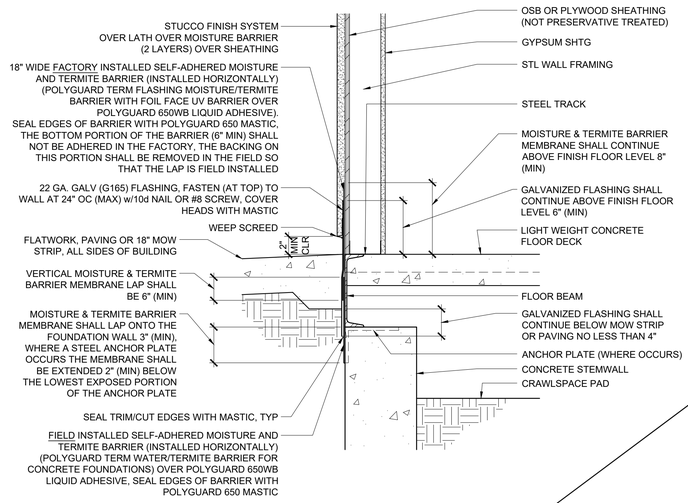
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.75




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

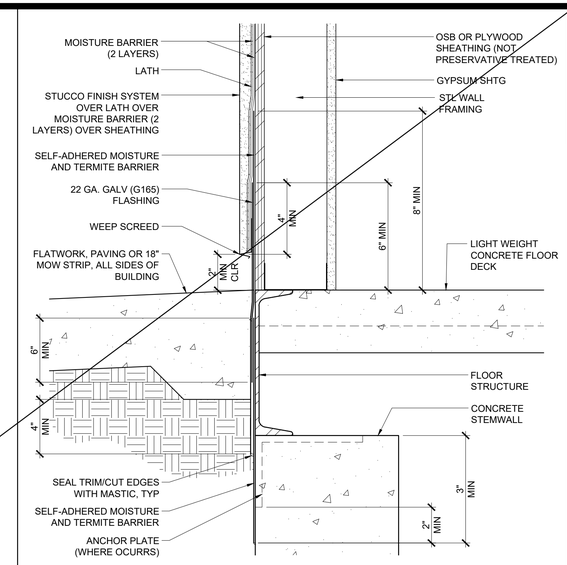



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SECTION VIEW

## DETERIORATION PROTECTION

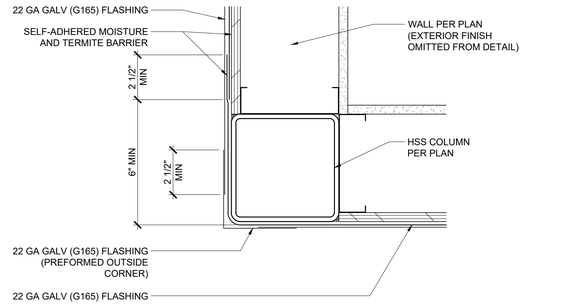
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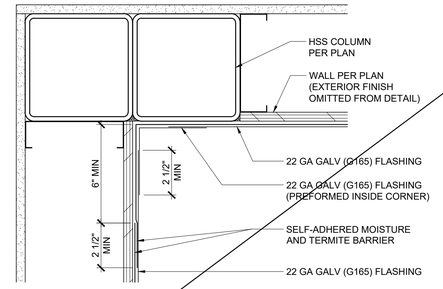

NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



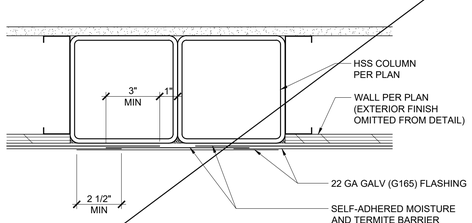

OUTSIDE CORNER




INSIDE CORNER

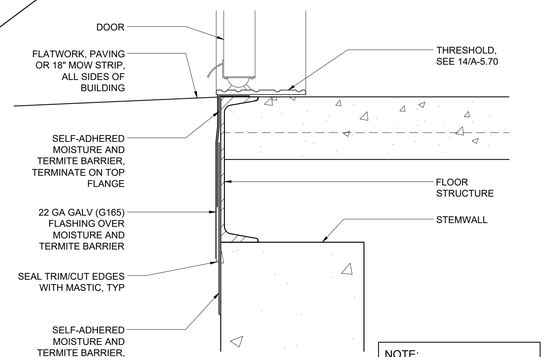
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
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## DETERIORATION PROTECTION @ THRESHOLD

15

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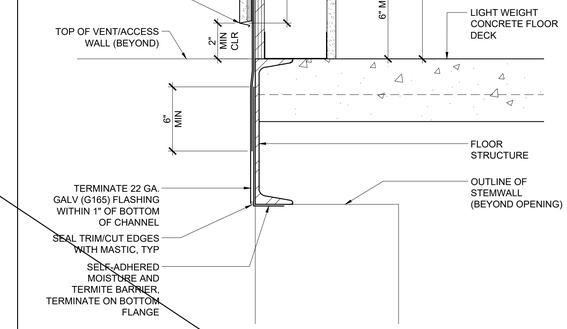
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## DETERIORATION PROTECTION REQUIREMENTS

10




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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SS ☑ FLS ☑ ACS ☑
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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION
# STUCCO EXTERIOR FINISH
# CONC FLOOR - STL STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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PHONE: 951-943-5393 FAX: 951-943-2211

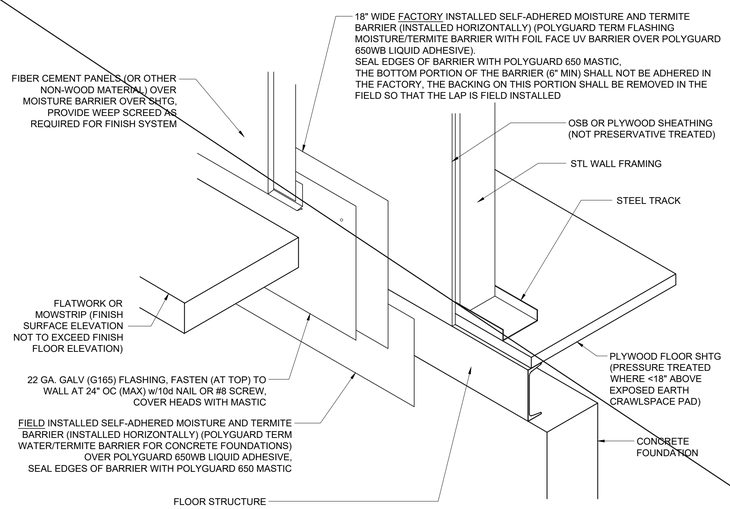
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

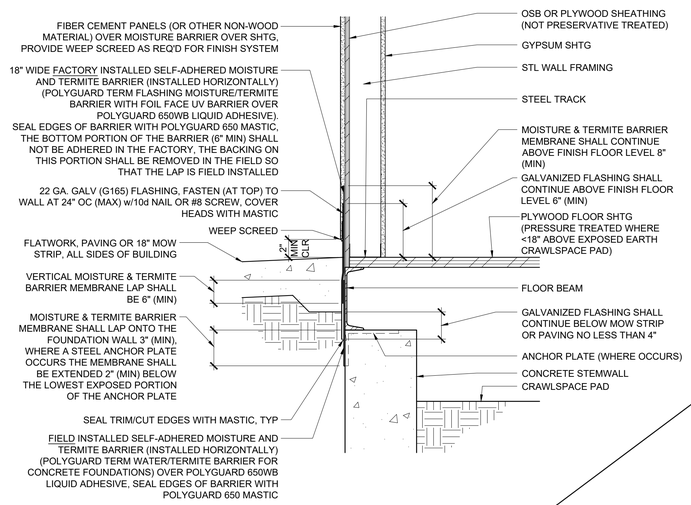
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DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.76




NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

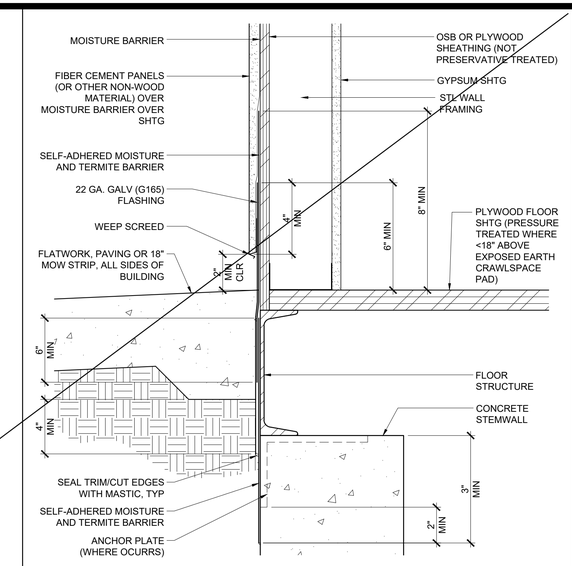



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SECTION VIEW

## DETERIORATION PROTECTION

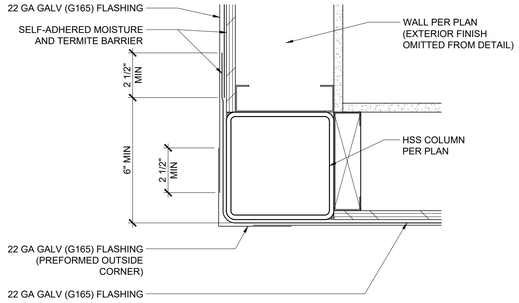
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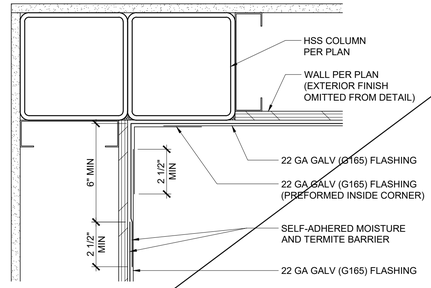

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## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



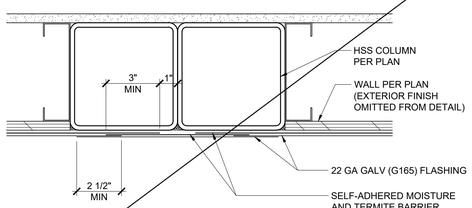

OUTSIDE CORNER




INSIDE CORNER

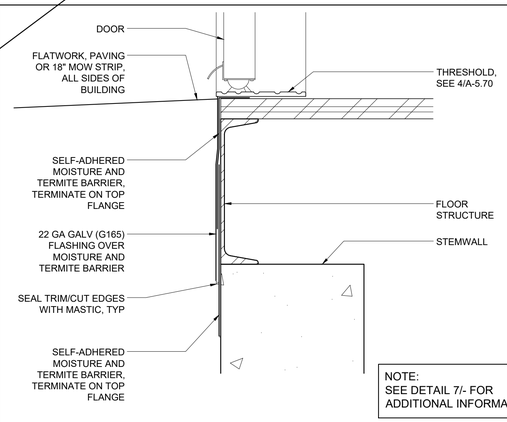
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




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15

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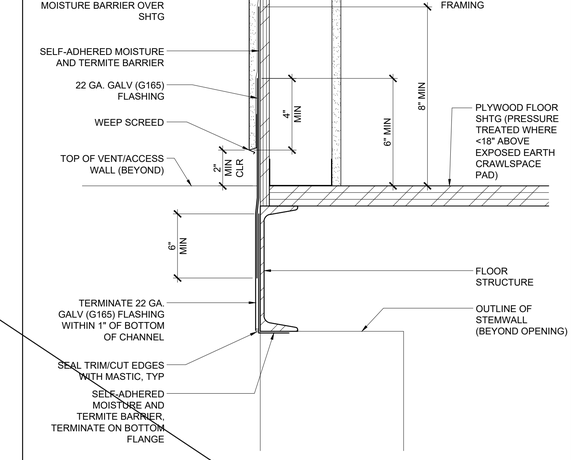
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## DETERIORATION PROTECTION REQUIREMENTS

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NOTE:
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## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

IDENTIFICATION STAMP
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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION
# NON-WOOD FINISH SIDING
# WOOD FLOOR - STL STUDS

REVISIONS
02/27/2026 BID SET
2
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PRE-CHECK (PC) DOCUMENT
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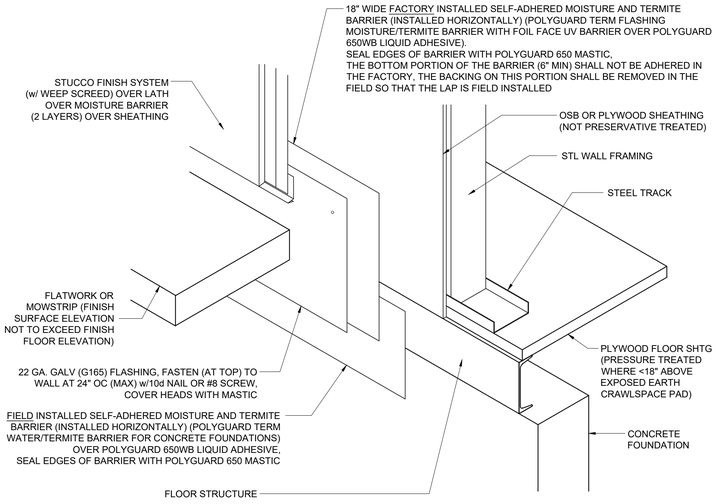
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

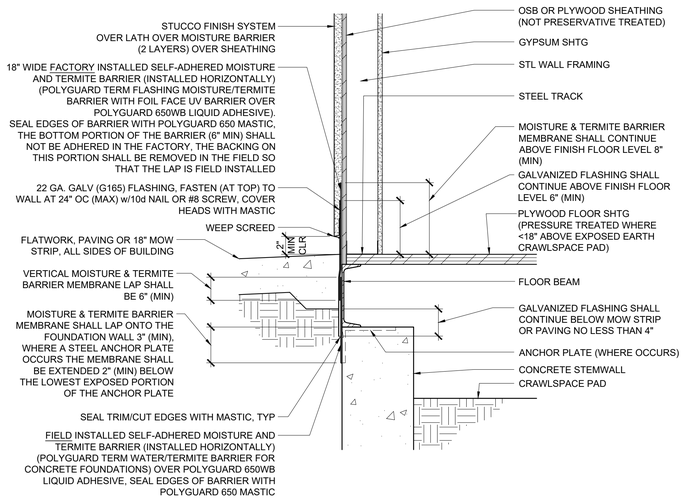
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
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P.C. SHEET NUMBER
A-5.77




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SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

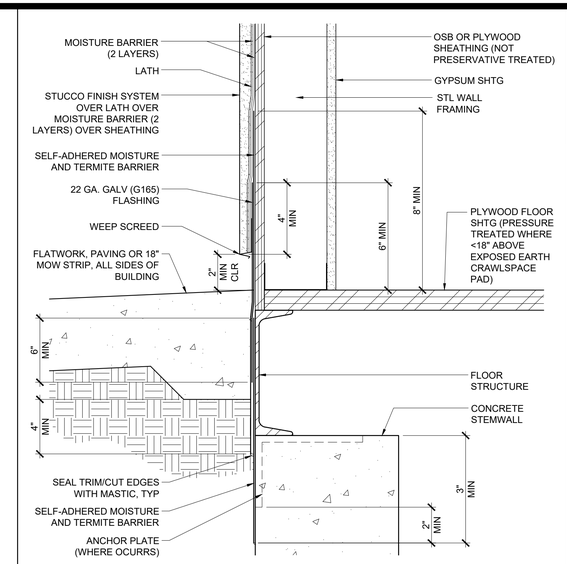



NOTE:
WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S) (WHERE OCCURS) THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

SECTION VIEW

## DETERIORATION PROTECTION

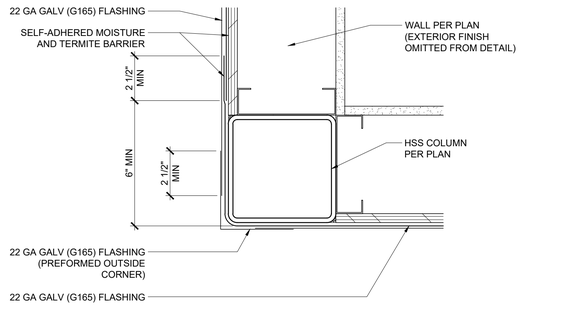
SCALE : NTS | 7



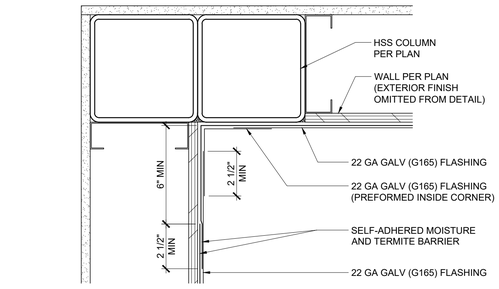

NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## TYPICAL EXTERIOR WALL SILL

SCALE : NTS | 2



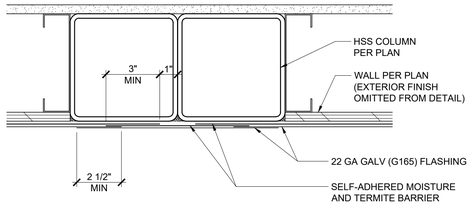

OUTSIDE CORNER




INSIDE CORNER

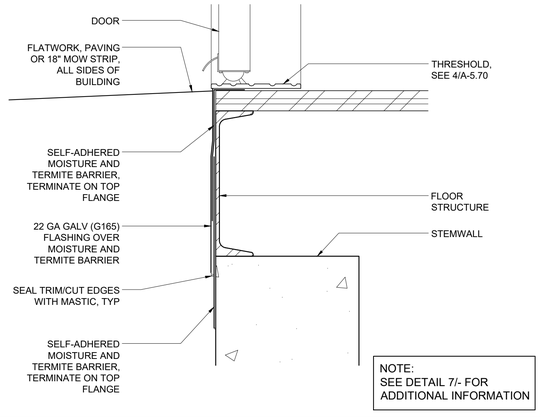
## DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14




## DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20




NOTE:
SEE DETAIL 7/- FOR ADDITIONAL INFORMATION

## DETERIORATION PROTECTION @ THRESHOLD

15

**MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS**

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET. SEE DETAIL 14/-
- WHERE ARE MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED WITHIN 1" OF THE EDGE OF THE MODULE. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
- WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM
- REFER TO DETAIL 20/- FOR MODLINE DETERIORATION PROTECTION

**REPAIR REQUIREMENTS**

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

1. WHERE THE DAMAGE MEASURES LESS THAN ½" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASURES MORE THAN ½", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTION.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVE AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

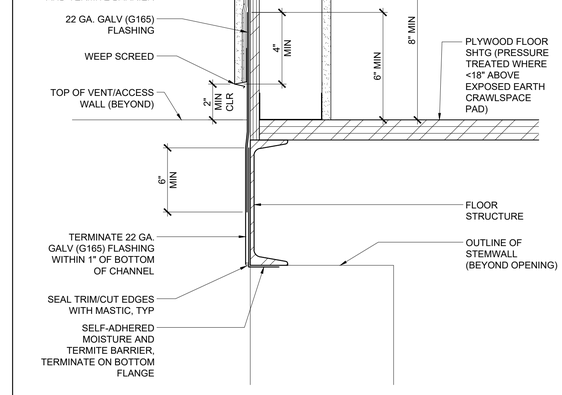
**INSPECTION REQUIREMENTS**

THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

## DETERIORATION PROTECTION REQUIREMENTS

10




NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

## EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

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PROJECT NAME:

SHEET TITLE:

# DETERIORATION PROTECTION
# STUCCO EXTERIOR FINISH
# WOOD FLOOR - STL STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

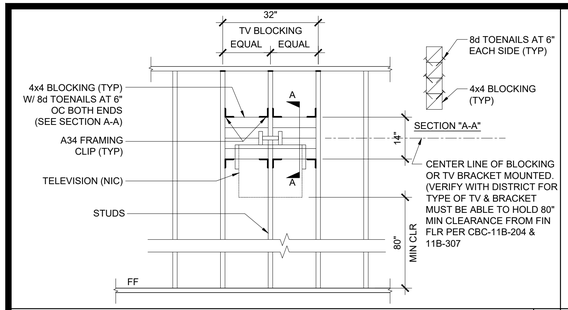
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

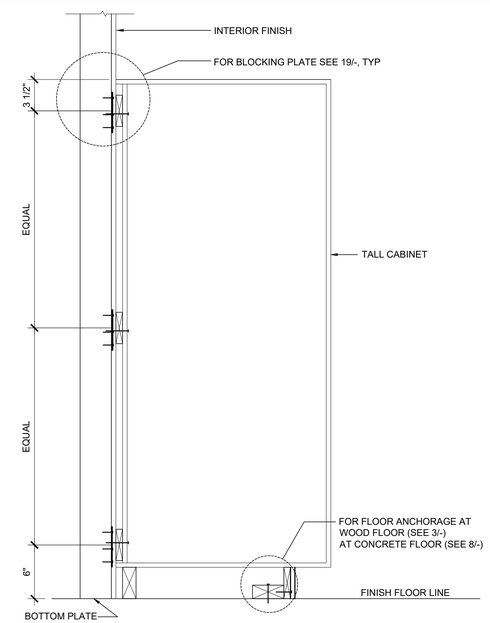
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.78

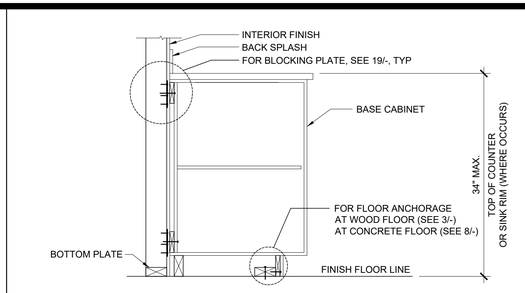


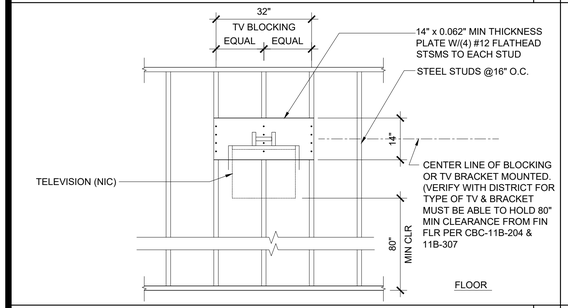

## T.V. BLOCKING ATTACHMENT AT WOOD STUD — SCALE : 1/2" = 1'-0" — 16

## NOT USED — 11

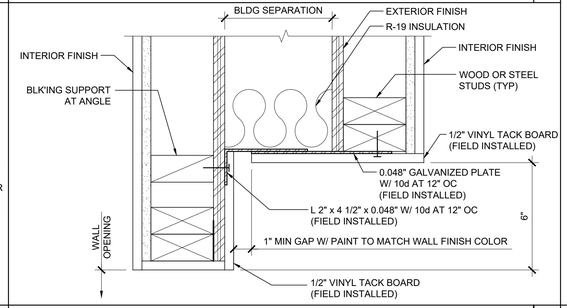



## BASE CABINET WALL ANCHORAGE — SCALE : 1" = 1'-0" — 1

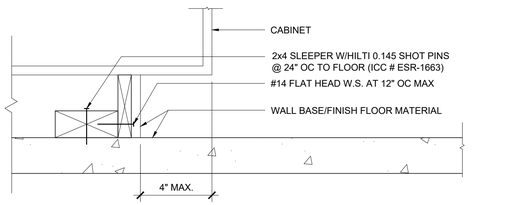


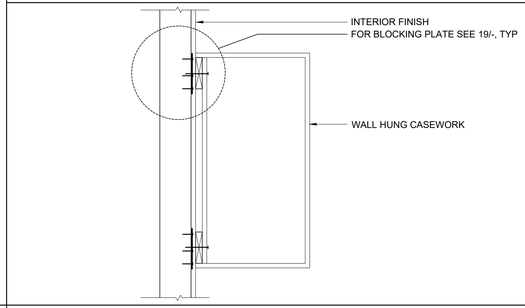

## T.V. BLOCKING ATTACHMENT AT STEEL STUD — SCALE : 1/2" = 1'-0" — 17



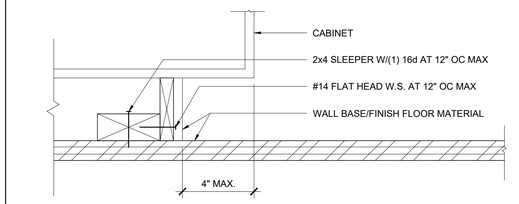

## WALL OPENING AT HEADER AND JAMB — SCALE : 3"=1'-0" — 12

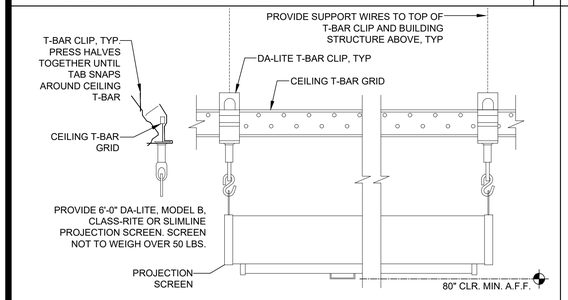



## TALL CABINET WALL ANCHORAGE — SCALE : 1 1/2" = 1'-0" — 7

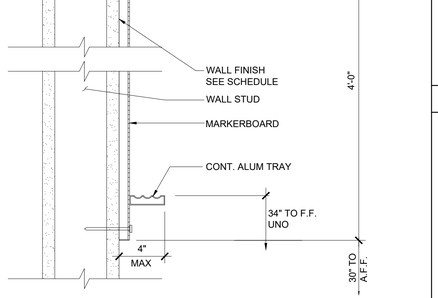



## WALL HUNG ANCHORAGE CABINET — SCALE : 1 1/2" = 1'-0" — 2

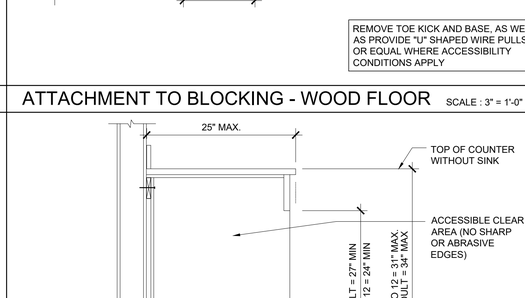


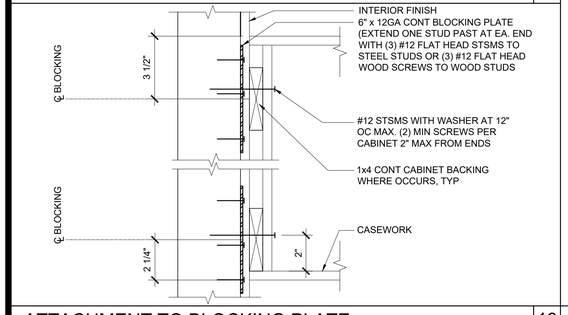

## PROJECTION SCREEN MOUNTING — SCALE : NTS — 18



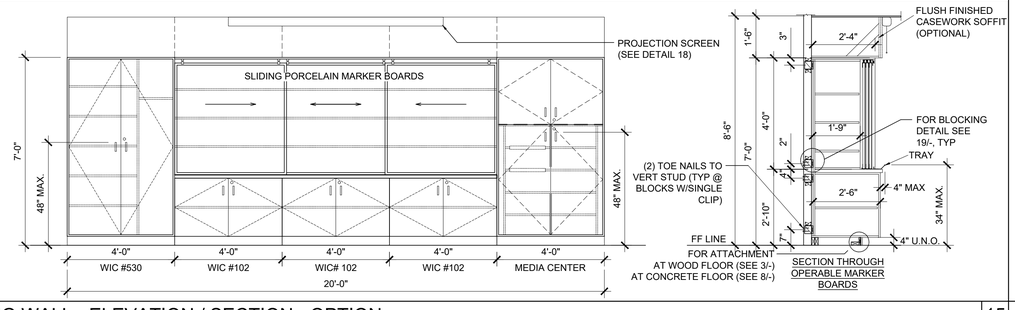

## MARKER BOARD ATTACHMENT — SCALE : 3" = 1'-0" — 14




## ACCESSIBLE COUNTER — SCALE : 1" = 1'-0" — 4




## ATTACHMENT TO BLOCKING PLATE — SCALE : 3" = 1'-0" — 19




## TEACHING WALL - ELEVATION / SECTION - OPTION — SCALE : 3/8" = 1'-0" — 15

## NOT USED — 10

## NOT USED — 5

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# ARCHITECTURAL DETAILS

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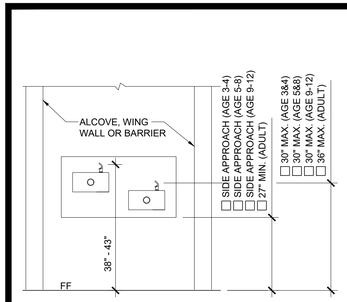
MODULAR BUILDING DESIGN PROFESSIONAL

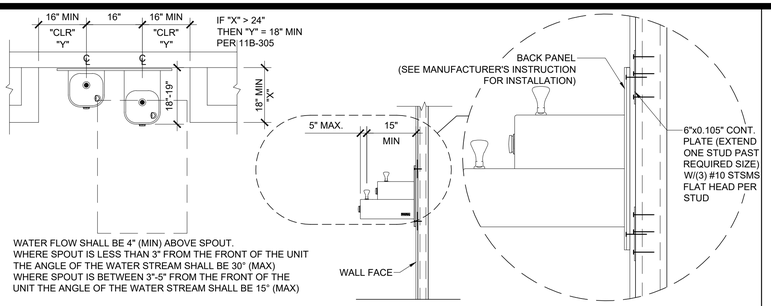
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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
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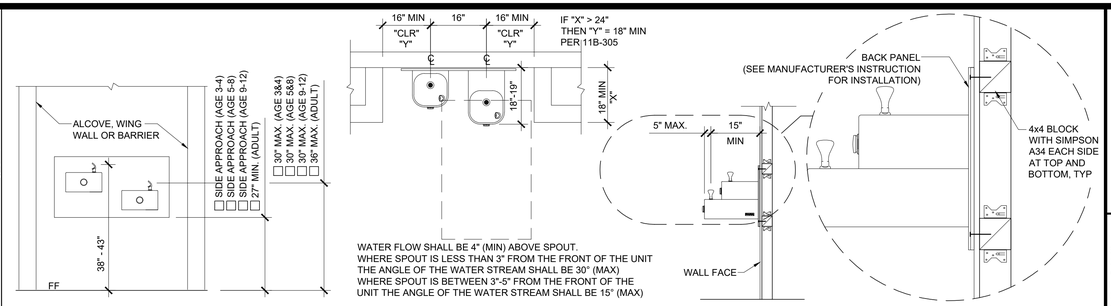
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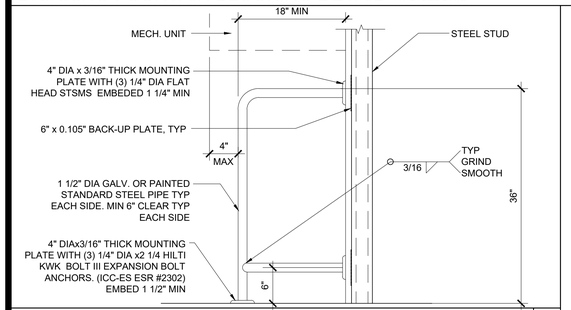

## DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD

SCALE : 1/2" = 1'-0" | 11



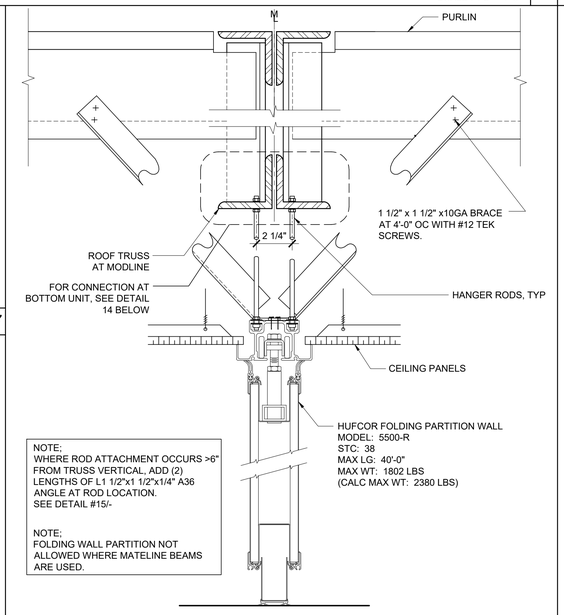

## DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" | 1



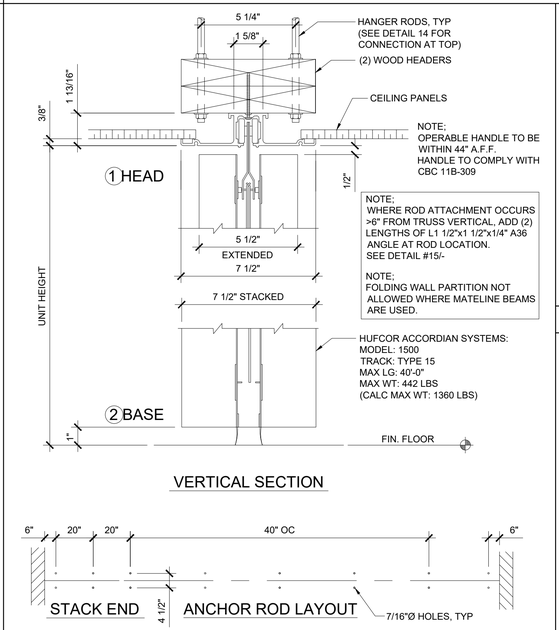

## HVAC BARRIER - OPT. D.F. BARRIER AT STEEL STUD

SCALE : 1" = 1'-0" | 17




## FOLDING WALL PARTITION ATTACH @ TOP UNIT

SCALE : 3" = 1'-0" | 13

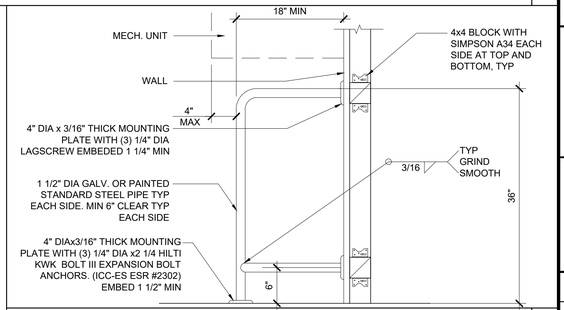



### VERTICAL SECTION



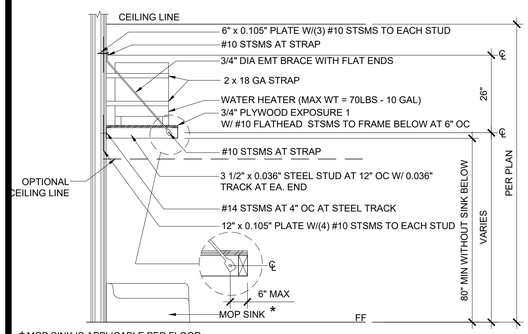

## ACCORDION PARTITION ATTACHMENT

SCALE: 3" = 1'-0" | 8



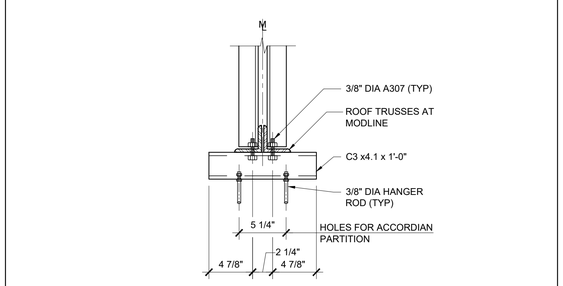

## HVAC BARRIER - OPT. D.F. BARRIER AT WOOD STUD

SCALE : 1" = 1'-0" | 2



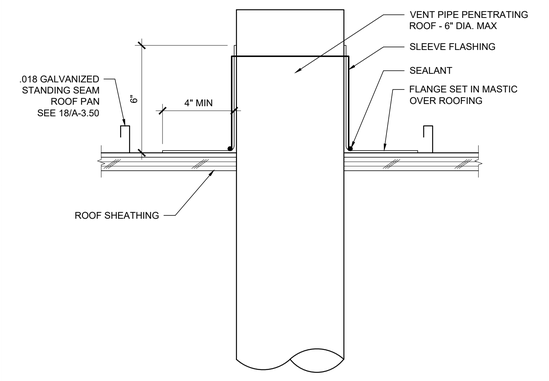

## WATER HEATER SHELF AT STEEL STUD

SCALE : 1/2" = 1'-0" | 19



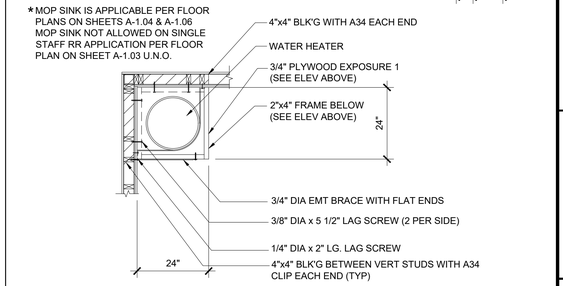

## ACCORDIAN DOOR - TOP CONN AT TRUSS

SCALE : 1 1/2" = 1'-0" | 14



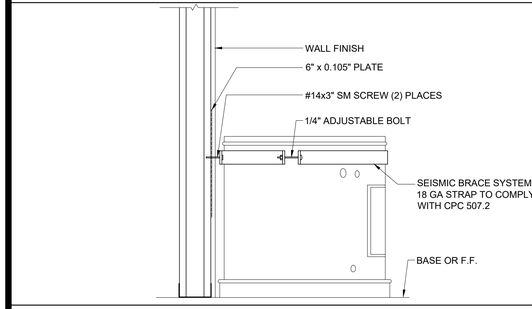

## PIPE PENETRATION THROUGH ROOF

SCALE : 3"=1'-0" | 10



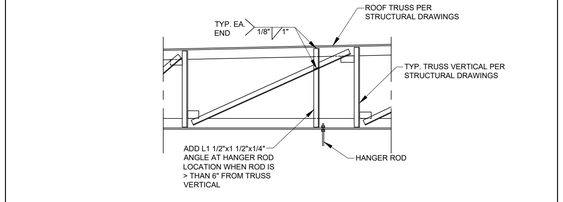

## WATER HEATER SHELF AT WOOD STUD

SCALE : 1/2" = 1'-0" | 4



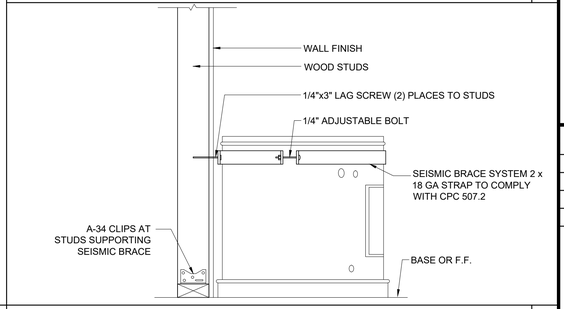

## WATER HEATER BRACING AT STEEL STUD

SCALE : 1 1/2" = 1'-0" | 20




## TRUSS SUPPORT @ HANGER ROD

15




## WATER HEATER BRACING AT WOOD STUD

SCALE : 1 1/2" = 1'-0" | 5

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SHEET TITLE:

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APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

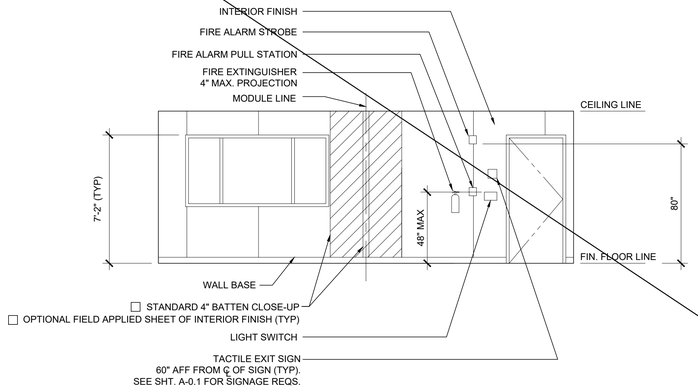
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

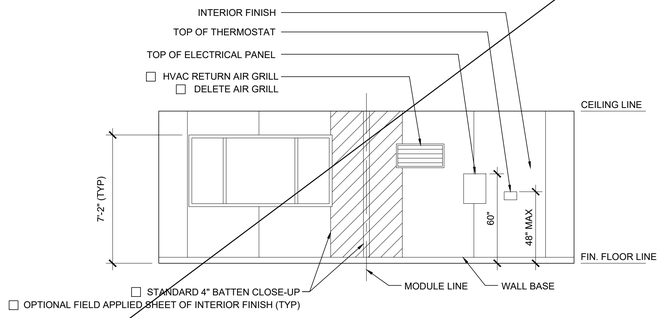
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

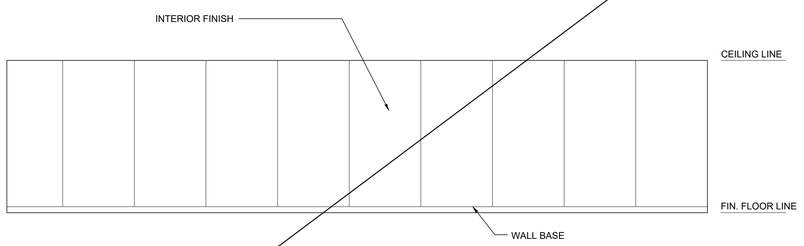
P.C. SHEET NUMBER
A-5.81



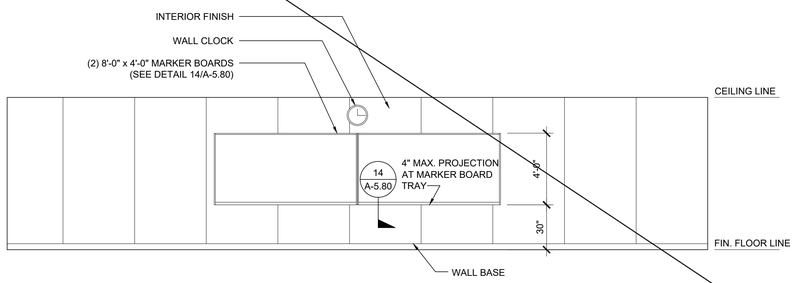

FRONT ELEVATION — SCALE: 1/4" = 1' - 0" — 3




REAR ELEVATION — SCALE: 1/4" = 1' - 0" — 1




SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 4




SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# INTERIOR ELEVATION
## 24' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

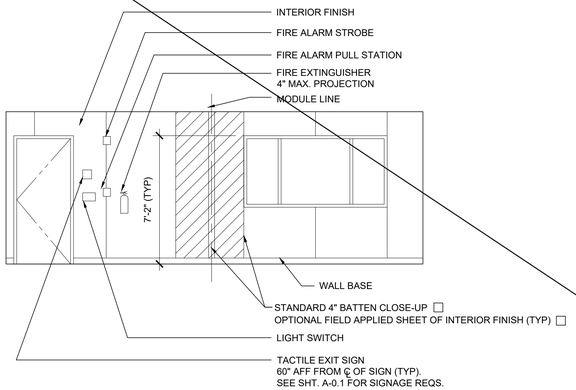
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

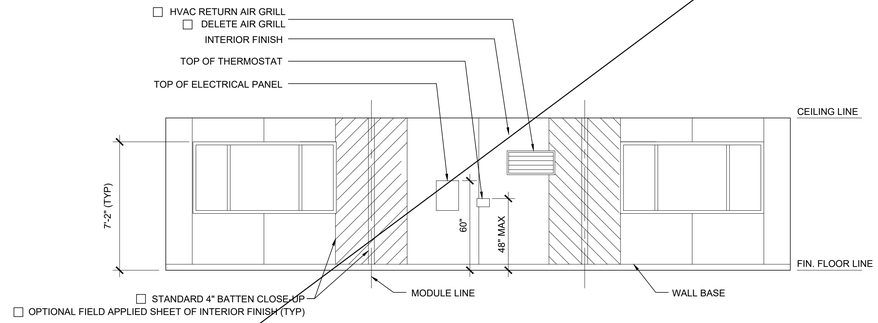
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

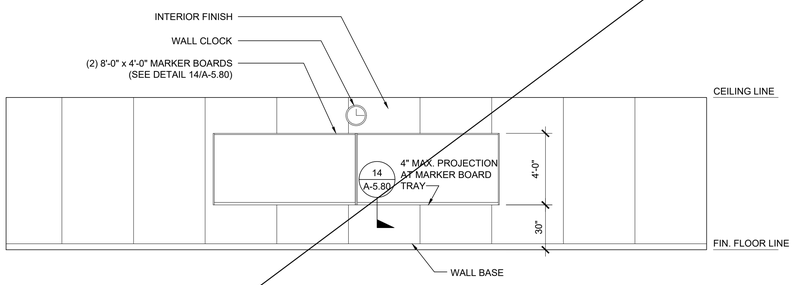
P.C. SHEET NUMBER
A-6.01



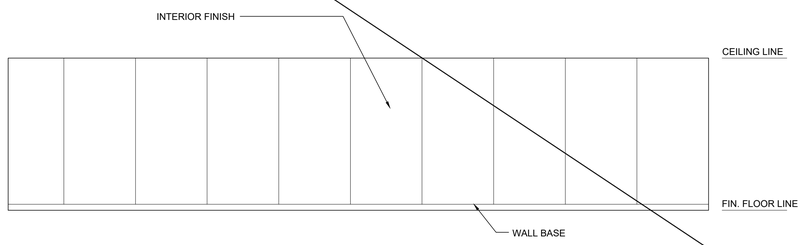

FRONT ELEVATION — SCALE: 1/4" = 1' - 0" — 3




REAR ELEVATION — SCALE: 1/4" = 1' - 0" — 1




SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 4




SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 2

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DATE: 05/09/2024

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# INTERIOR ELEVATION
## 36' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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PHONE: 951-943-5393 FAX: 951-943-2211

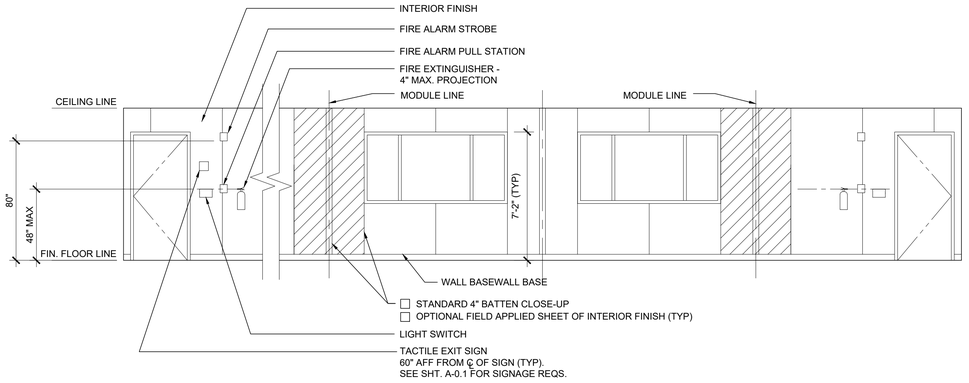
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

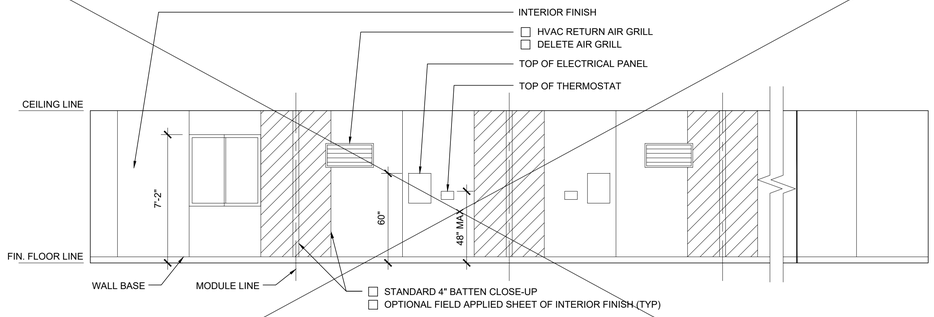
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-6.02



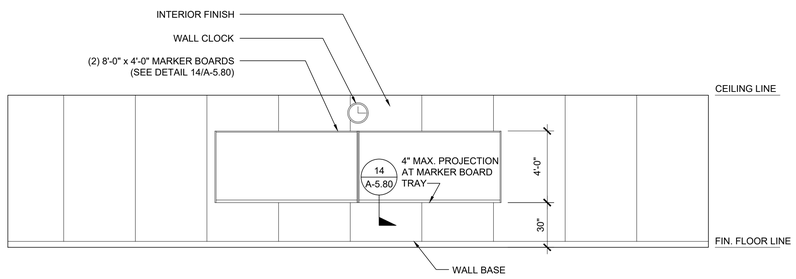

## FRONT ELEVATION

SCALE: 1/4" = 1' - 0" | 3



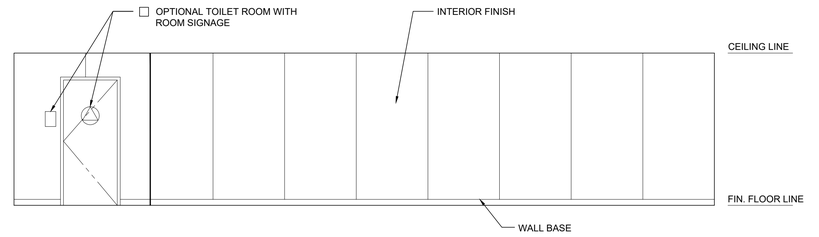

## REAR ELEVATION

SCALE: 1/4" = 1' - 0" | 1



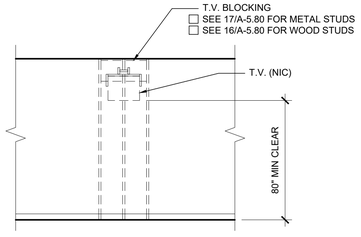

## SIDE ELEVATION

SCALE: 1/4" = 1' - 0" | 4




## SIDE ELEVATION

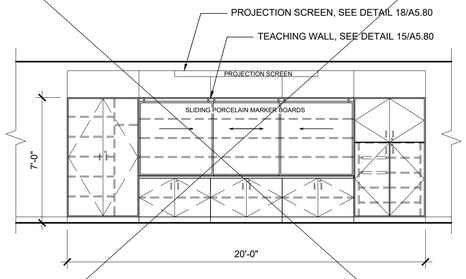
SCALE: 1/4" = 1' - 0" | 2




REF: A1.03

## TELEVISION BLOCKING OPTION

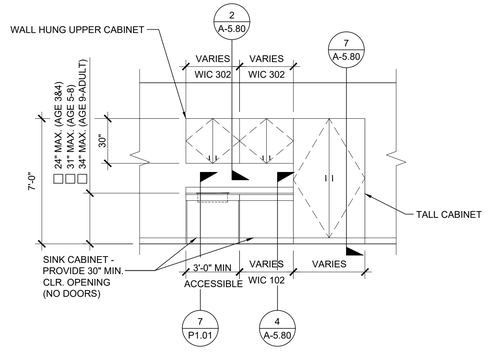
SCALE: 1/4" = 1' - 0" | C




REF: A1.03

## TEACHING WALL OPTION

SCALE: 1/4" = 1' - 0" | B




REF: A1.03

## CASEWORK OPTION

SCALE: 1/4" = 1' - 0" | A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# INTERIOR ELEVATION
## 48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

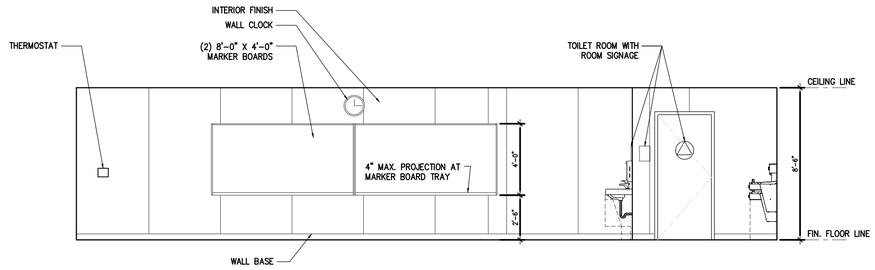
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24776 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

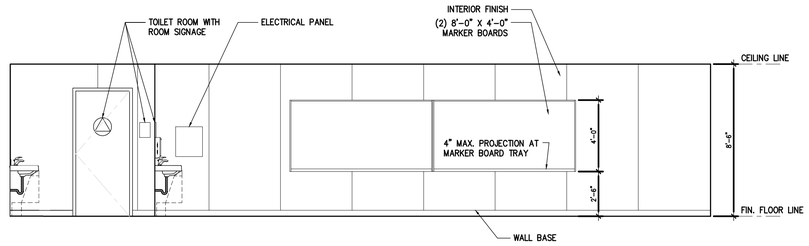
P.C. SHEET NUMBER

A-6.03



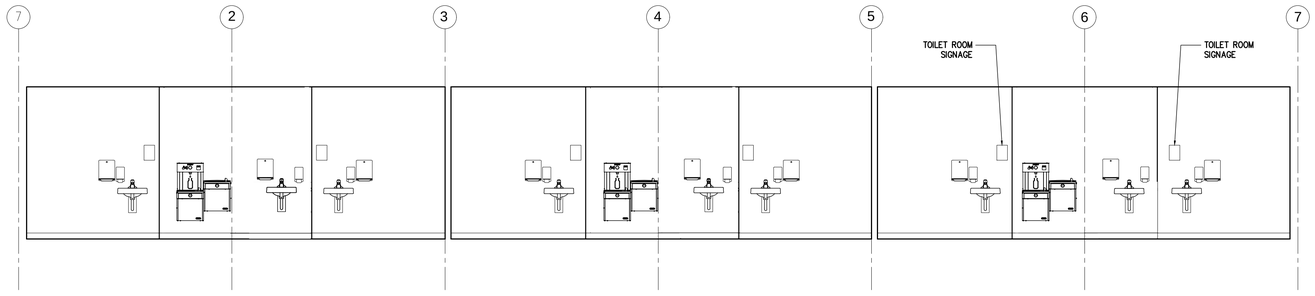

## 4 INTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 1/4" = 1'-0"



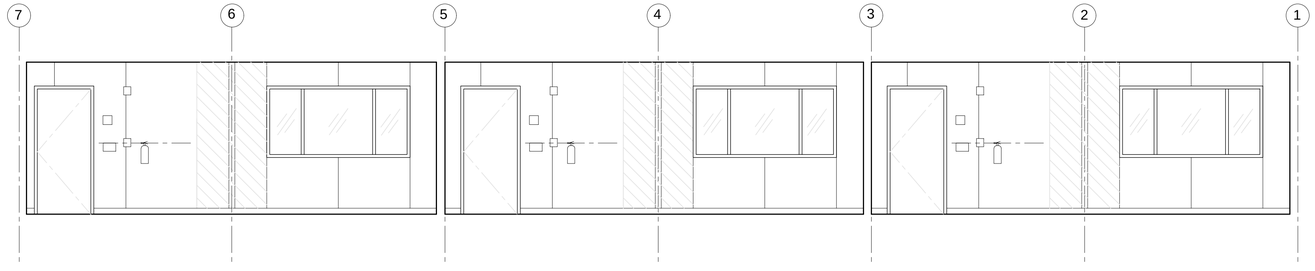

## 3 INTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 1/4" = 1'-0"




## 2 INTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 1/4" = 1'-0"




## 1 INTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1'-0"

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PROJECT NAME:

# ROSEMEAD SD
# MILDRED B. JANSON ES
# (3) CLASSROOM BLDG'S

SHEET TITLE:

## INTERIOR ELEVATION
48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

REFER TO EQUIVALENT SHEET
PC 04-121999
- FOR ELEMENTS NOT SHOWN ON THIS "N" SHEET -

MODULAR BUILDING DESIGN PROFESSIONAL

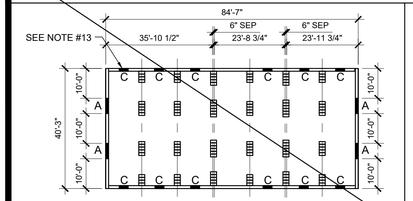
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40'

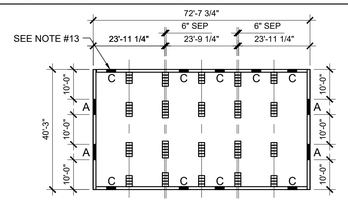
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

SHEET NUMBER
A-6.03N

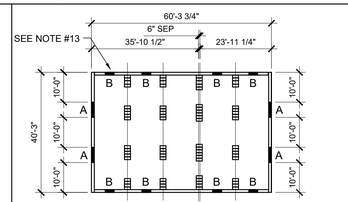
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



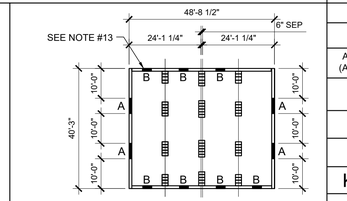

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(12) - "C" VENT = 13.50 SF
23.74 SF TOTAL VENTILATION (> 22.66 SF)



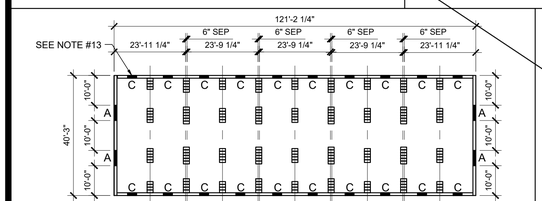

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(9) - "C" VENT = 10.12 SF
20.36 SF TOTAL VENTILATION (> 19.46 SF)



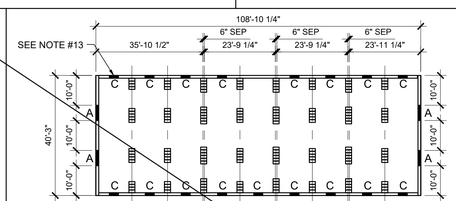

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.14 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(8) - "B" VENT = 6.00 SF
16.24 SF TOTAL VENTILATION (> 16.14 SF)



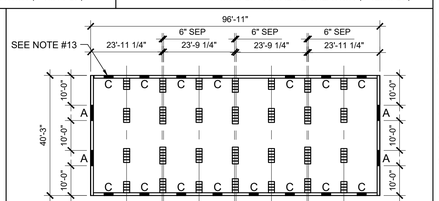

☐ 48'-6" x 40' BUILDING: 1940 SF / 150 = 12.93 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(7) - "B" VENT = 5.25 SF
15.49 SF TOTAL VENTILATION (> 12.93 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(20) - "C" VENT = 22.50 SF
32.74 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(17) - "C" VENT = 19.12 SF
29.36 SF TOTAL VENTILATION (> 29.2 SF)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(15) - "C" VENT = 16.87 SF
27.11 SF TOTAL VENTILATION (> 26 SF)

# WOOD FOUNDATION PLATE SCHEDULE

## 50 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE | SEPARATION PAD AT ENDWALL ☐ CONTINUOUS | SEPARATION PAD AT INTERIOR ☐ SEPARATE | SEPARATION PAD AT INTERIOR ☐ CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x12 (2x14)[15] | 2x12 (2x14)[15] | (5) 2x12 x 2'-0" | (5) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (3) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (7) 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 5'-1 1/2" x 6" = 2.56 S.F. VENTILATION

"VENT OPENING BELOW CONT UPPER PLATE"

VENT "B" (ENDWALL): 3'-0" x 3" = 0.75 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS)

"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

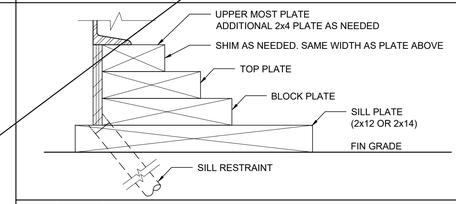
VENT "C" (ENDWALL): 3'-0" x 4.5" = 1.125 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS)

"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 5'-1 1/2" TO 4'-0", SEE VENTING SCHEDULE

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
MATERIALS:
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
INSTALLATION RECOMMENDATIONS:
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

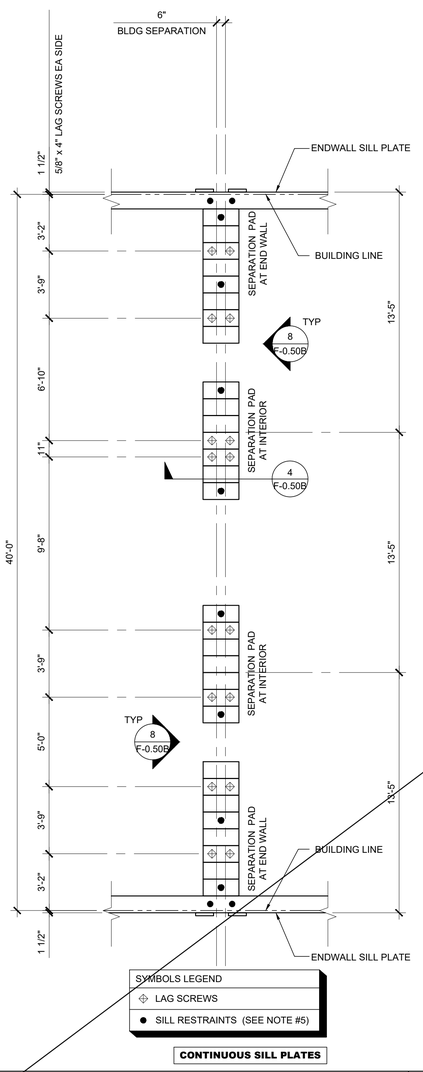
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 24' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

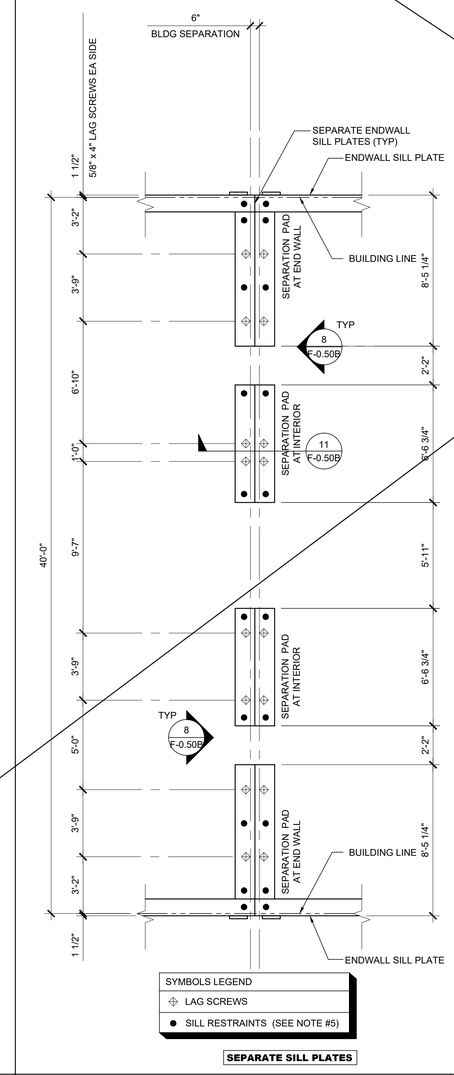
| | BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDE VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| W/O PARAPET | 24' x 40' | 960 SF | 6.4 SF (1/150) | 5.125' x 6" = (4) 2.56 SF/EA | 10.25 SF SEE NOTE #8 |
| W/ PARAPET | 24' x 40' | 960 SF | 6.4 SF (1/150) | 4'-0" x 6" = (4) 2 SF/EA | 8 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE (14 / F-0.50B)

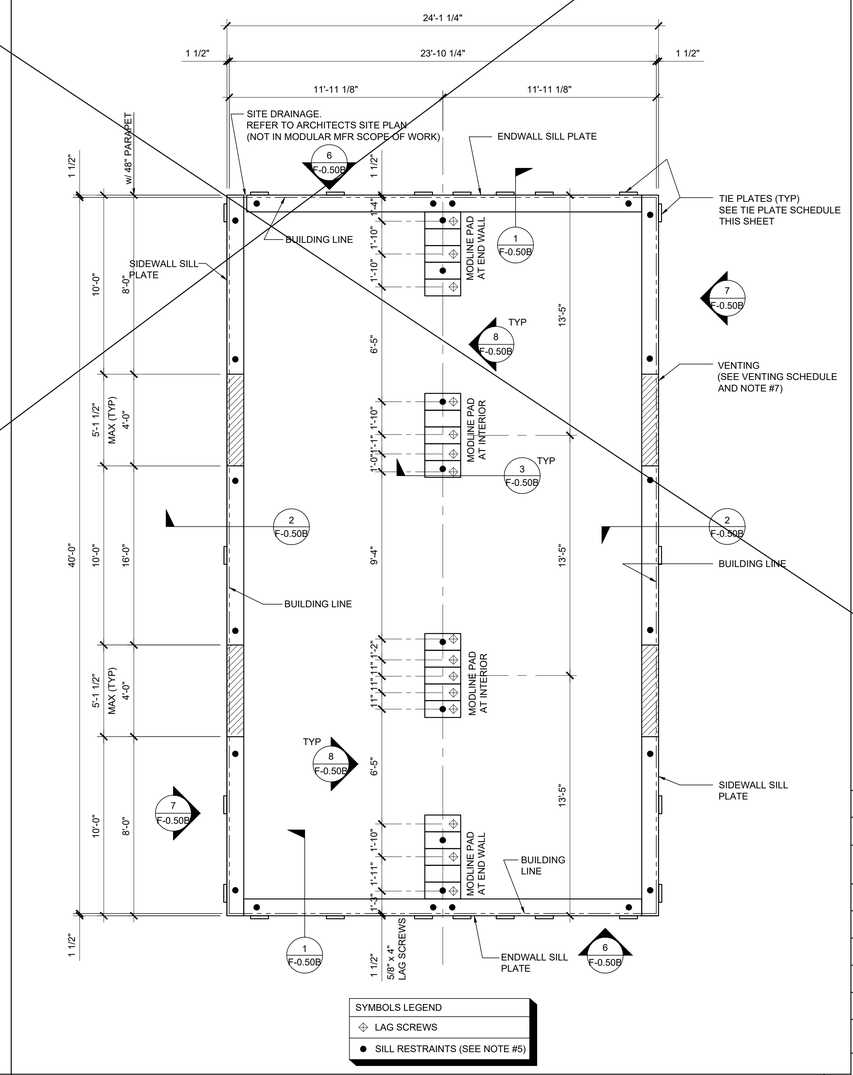
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 24' x 40' | 4 | 7 | 22 |




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 3




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
24x40
(50 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

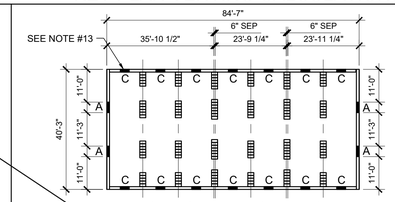



SILVER CREEK INDUSTRIES
24' x 40' PC

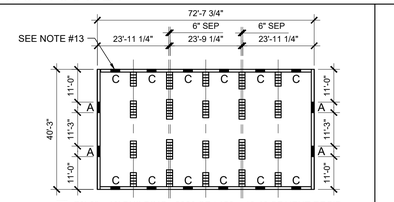
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.01

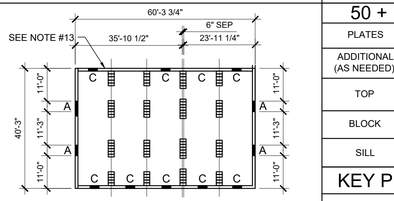
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



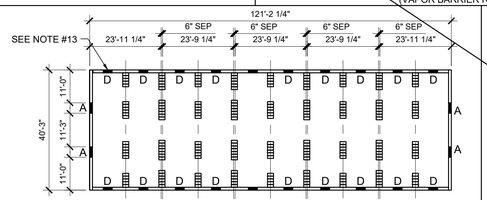

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(14) - "C" VENT = 15.75 SF
22.75 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)



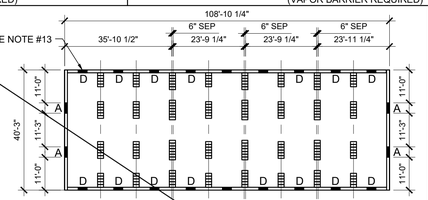

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(12) - "C" VENT = 13.50 SF
20.50 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)



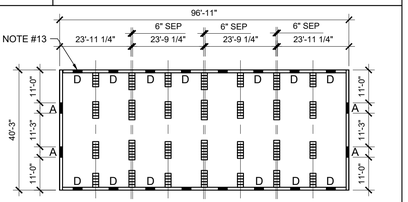

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(8) - "C" VENT = 10.12 SF
17.12 SF TOTAL VENTILATION (> 16.13 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(18) - "D" VENT = 27.00 SF
34.00 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(15) - "D" VENT = 22.5 SF
29.50 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(13) - "D" VENT = 19.50 SF
26.5 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 50 + 15 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE | SEPARATION PAD AT ENDWALL ☐ CONTINUOUS | SEPARATION PAD AT INTERIOR ☐ SEPARATE | SEPARATION PAD AT INTERIOR ☑ CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x12 (2x14)[15] | 2x12 (2x14)[15] | (6) 2x12 x 2'-0" | (6) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (9) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (8) 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 3'-6" x 6" = 1.75 S.F. VENTILATION
"VENT OPENING BELOW CONT UPPER PLATE"

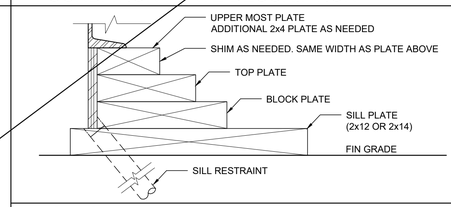
VENT "B" (ENDWALL): 3'-0" x 3" = 0.68 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

VENT "C" (ENDWALL): 3'-0" x 4 1/2 " = 1.125 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): 3'-0" x 6" = 1.5 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 3'-6" TO 3'-0", SEE VENTING SCHEDULE

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

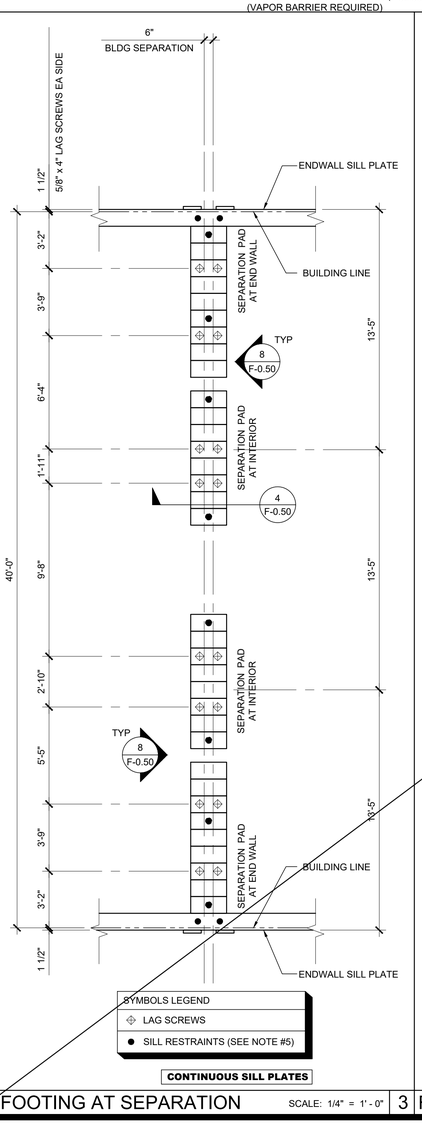
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 24' x 40' | 5" OC AT ENDWALL - 1 / F-0.50<br>12" OC AT SIDEWALL - 2 / F-0.50<br>10" OC AT SEPARATION - 4 / F-0.50 |

# VENTING SCHEDULE

| | BUILDING SIZE | BUILDING AREA | REQ. VENTING | SIDE VENTING | END VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|---|
| W/O PARAPET | 24' x 40' | 960 SF | 6.4 SF (1/150) | 3'-6" x 6" = (4) 1.75 SF/EA | - | 7.0 SF |
| W/ PARAPET | 24' x 40' | 960 SF | 6.4 SF (1/150) | 3'-0" x 6" = (4) 1.5 SF/EA (6 SF TOTAL) | 3'-0" x 3" = (2) 1.5 SF/EA (.75 SF TOTAL) | 7.5 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

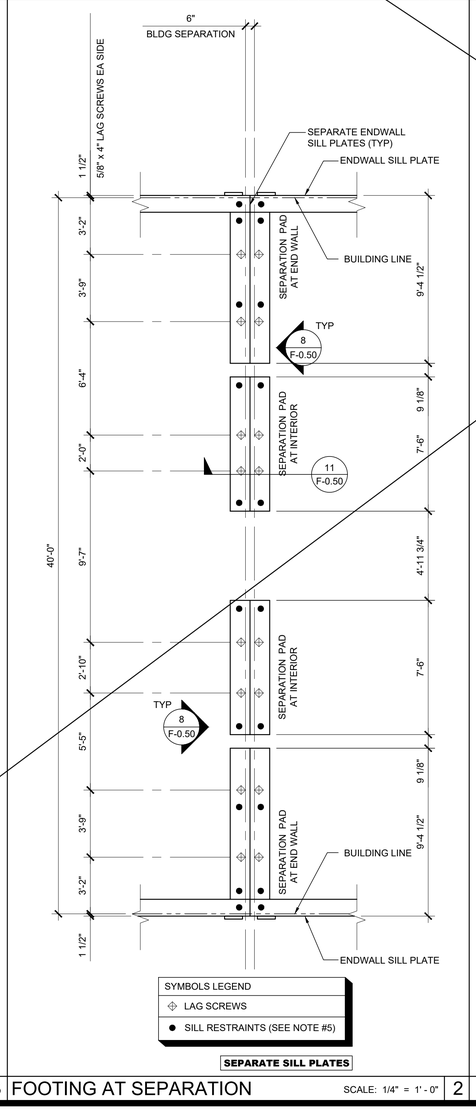
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 24' x 40' | 4 | 7 | 22 |




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**CONTINUOUS SILL PLATES**

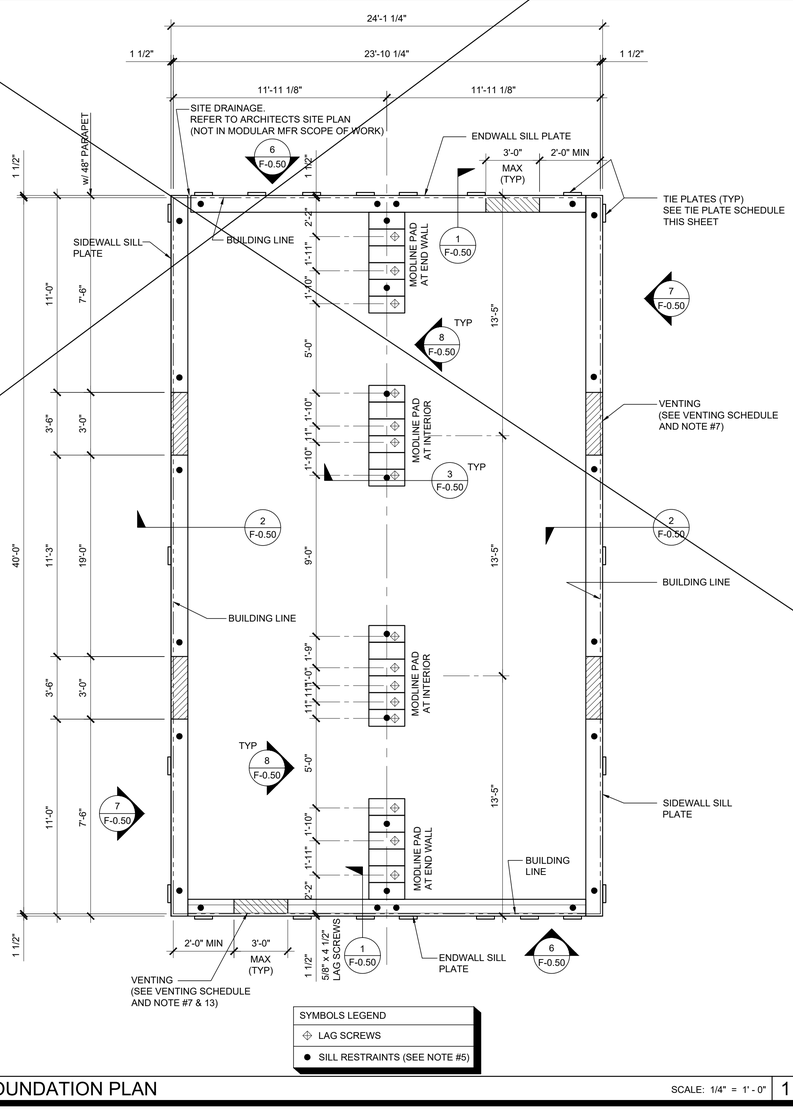
FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 3




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**SEPARATE SILL PLATES**

FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
## 24x40
## (50+15 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

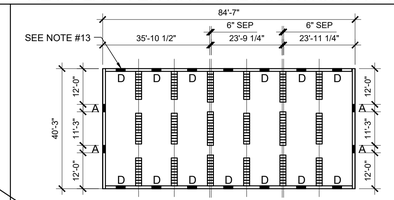
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

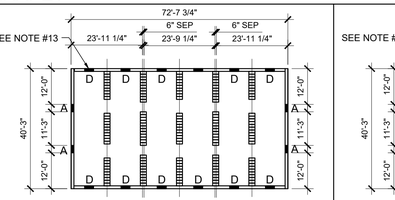
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.02

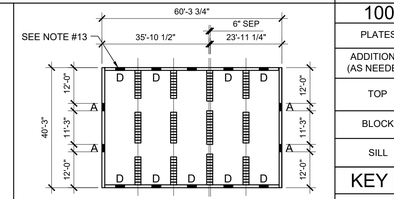
# KEY PLAN VENTING CALCULATIONS W/O PARAPET



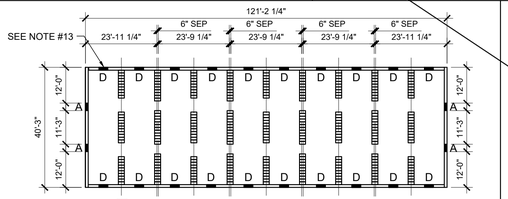

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 5.00 SF
(13) - "D" VENT = 17.81 SF
22.81 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)



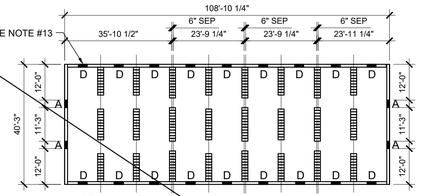

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 5.00 SF
(11) - "D" VENT = 15.07 SF
20.07 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)



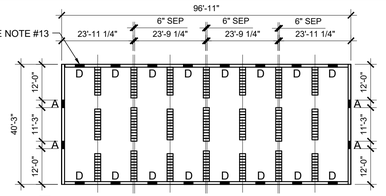

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(4) - "A" VENT = 5.00 SF
(9) - "D" VENT = 12.33 SF
17.33 SF TOTAL VENTILATION (> 16.13 SF)
(VAPOR BARRIER REQUIRED)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 5.00 SF
(20) - "D" VENT = 27.5 SF
32.5 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 5.00 SF
(18) - "D" VENT = 24.66 SF
29.66 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 5.00 SF
(16) - "D" VENT = 21.92 SF
26.92 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 100 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE | ☐ CONTINUOUS | SEPARATION PAD AT INTERIOR ☐ SEPARATE | ☐ CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x14 (2x16)[15] | 2x14 (2x16)[15] | (10) 2x12 x 2'-0" | (11) 2x12 x 2'-0" | (2) ROWS OF 2x14 | 2x12 x 2'-0" | (2) ROWS OF 2x14 | 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 2'-6" x 6" = 1.25 S.F. VENTILATION
"VENT OPENING BELOW CONT UPPER PLATE"

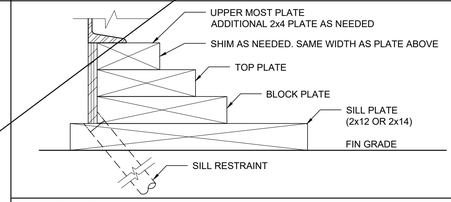
VENT "B" (ENDWALL): 2'-9" x 3" = 0.68 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

VENT "C" (ENDWALL): 2'-9" x 4 1/2" = 1.03 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): 2'-9" x 6" = 1.37 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 3'-6" TO 3'-0", SEE VENTING SCHEDULE

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
MATERIALS:
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
INSTALLATION RECOMMENDATIONS:
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS NO CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

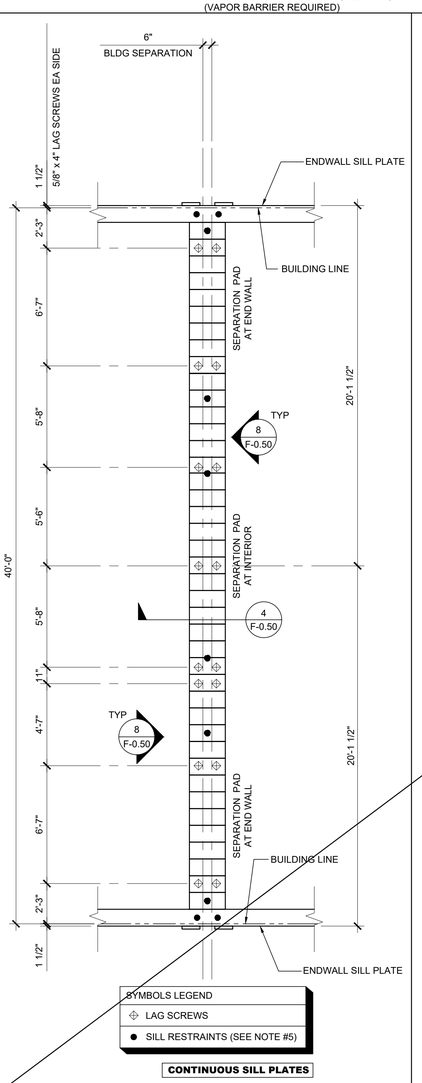
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 24' x 40' | 5" OC AT ENDWALL - 1 / F-0.50<br>12" OC AT SIDEWALL - 2 / F-0.50<br>10" OC AT SEPARATION - 4 / F-0.50 |

# VENTING SCHEDULE

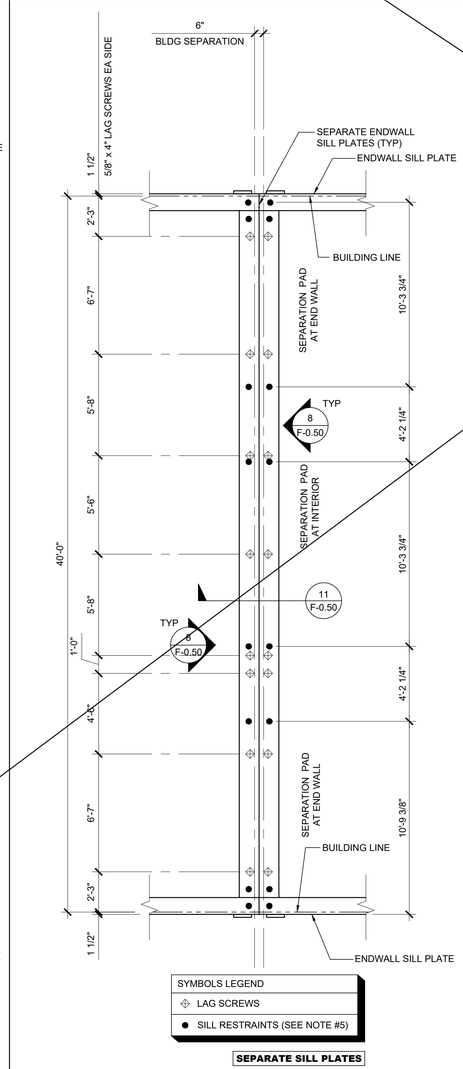
| BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| 24' x 40' | 960 SF | 6.4 SF (1/150) | 2'-6" x 6" = (4) 1.25 SF/ EA (5 SF TOTAL) | 2'-9" x 3" = (3) 0.68 SF/ EA (2.04 SF TOTAL) | 7.04 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

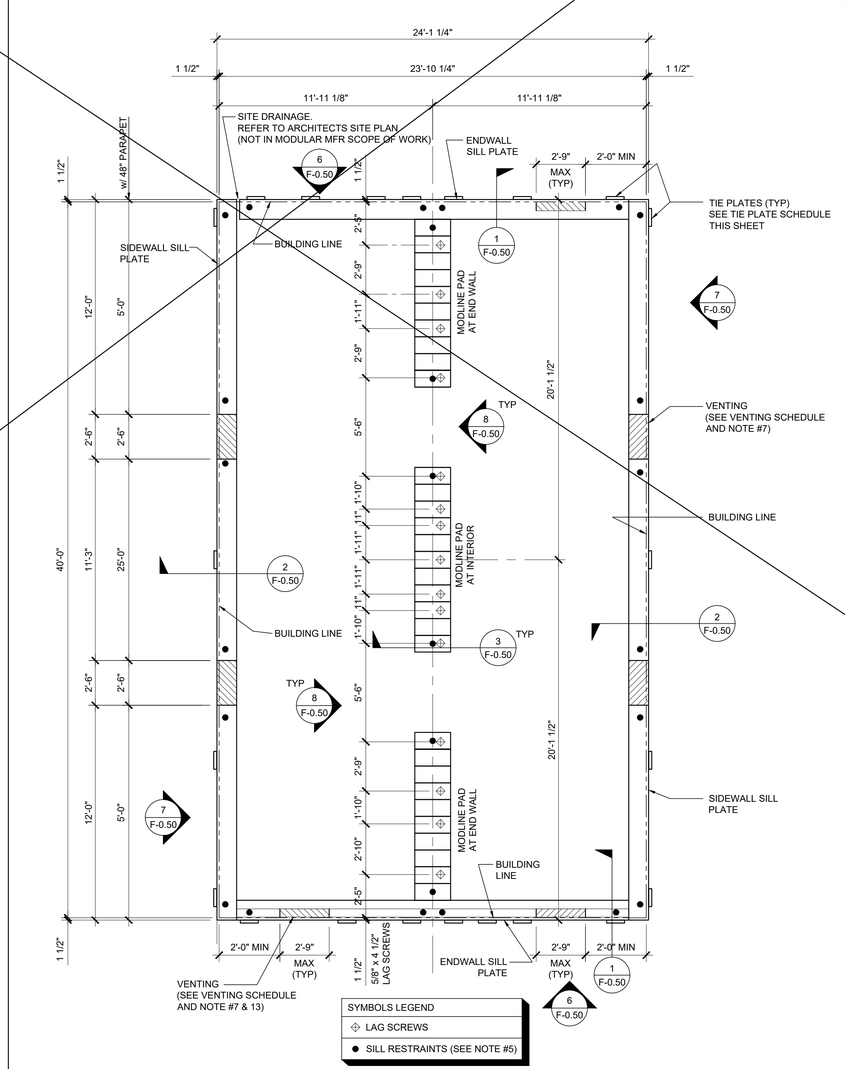
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 24' x 40' | 4 | 7 | 22 |




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 3




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
24x40
(100 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

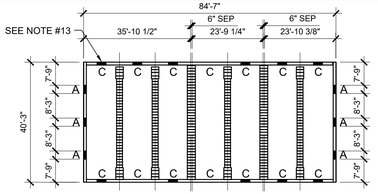
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

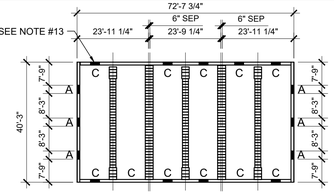
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.03

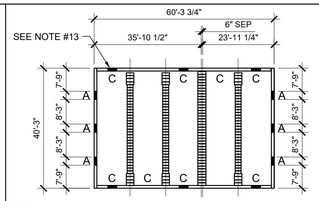
# KEY PLAN VENTING CALCULATIONS



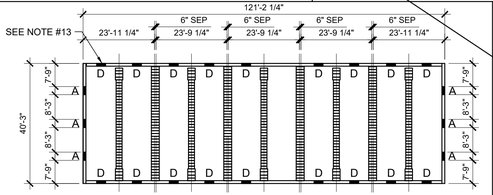

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(14) - "C" VENT = 14.42 SF
22.67 SF TOTAL VENTILATION (> 22.66 SF)



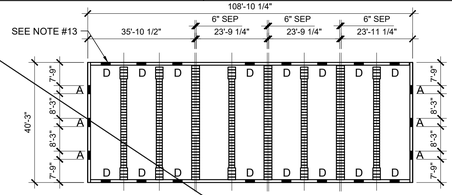

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(11) - "C" VENT = 11.33 SF
19.58 SF TOTAL VENTILATION (> 19.46 SF)



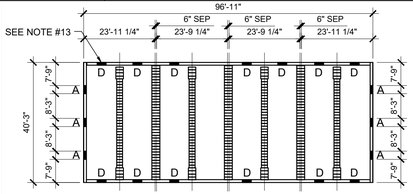

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(8) - "C" VENT = 8.24 SF
16.49 SF TOTAL VENTILATION (> 16.13 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(18) - "D" VENT = 24.66 SF
33.91 SF TOTAL VENTILATION (> 32.53 SF)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(16) - "D" VENT = 21.92 SF
30.17 SF TOTAL VENTILATION (> 29.2 SF)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(13) - "D" VENT = 17.81 SF
26.06 SF TOTAL VENTILATION (> 26 SF)

150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTIONS

# WOOD FOUNDATION PLATE SCHEDULE

## 150 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | PLATES AT SEPARATION ☐ SEPARATE | PLATES AT SEPARATION ☐ CONTINUOUS |
|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x12 | 2x12 | (2) ROWS OF 2x8 (CONT) | 2x12 |
| SILL | 2x14 | 2x14 | (7) 2x12 x 30" | 2x12 x 24" | (2) ROWS OF 2x14 (CONT) | 2x12 x 30" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 2'-9" x 6" = 1.375 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

VENT "B" (ENDWALL): 2'-9" x 3" = 0.68 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SET) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

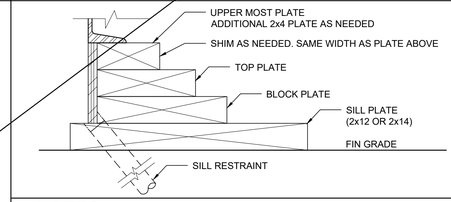
VENT "C" (ENDWALL): 2'-9" x 4 1/2" = 1.03 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): 2'-9" x 6" = 1.37 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

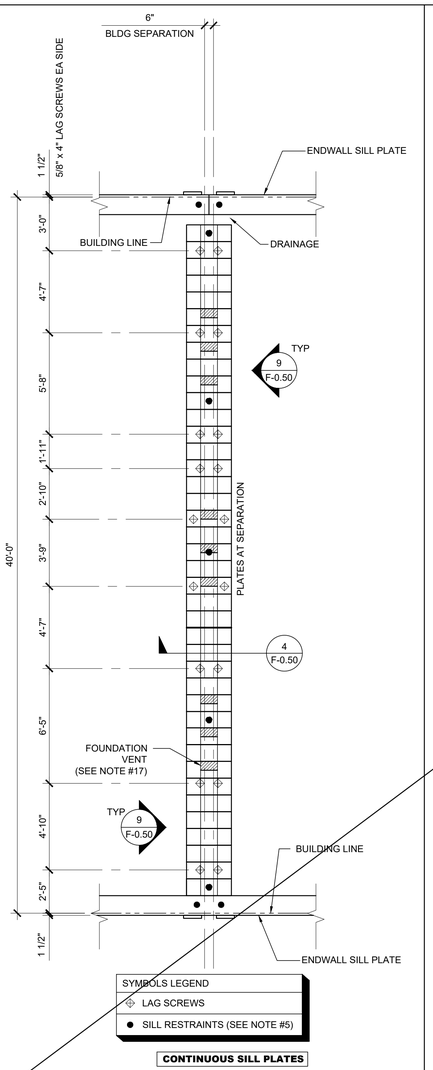
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 24' x 40' | 5" OC AT ENDWALL - 1 / F-0.50<br>12" OC AT SIDEWALL - 2 / F-0.50<br>9" OC AT SEPARATION - 4 / F-0.50 |

# VENTING SCHEDULE

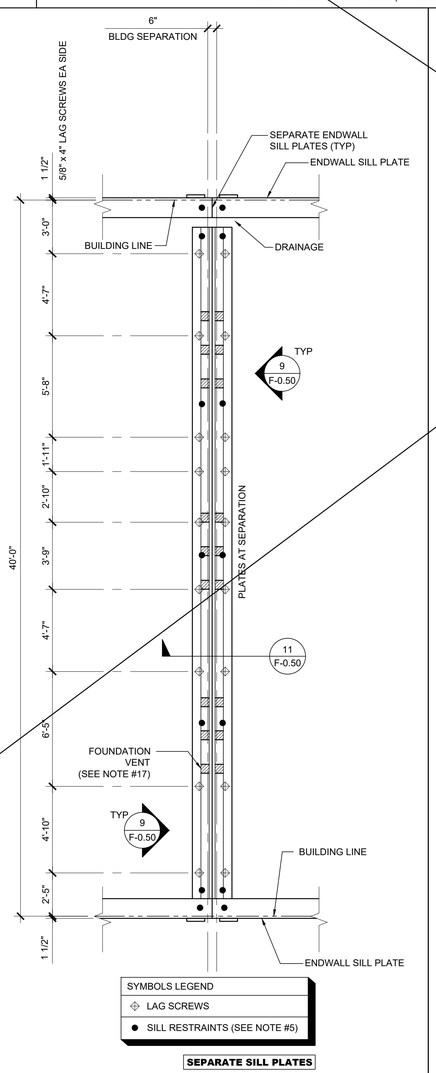
| BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| 24' x 40' | 960 SF | 6.4 SF (1/150) | 2.75' x 4.5" = (6) 1.03 SF/ EA (6.16 SF TOTAL) | 2.75' x 3" = 0.68 SF/ EA 0.68 SF TOTAL) | 6.84 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

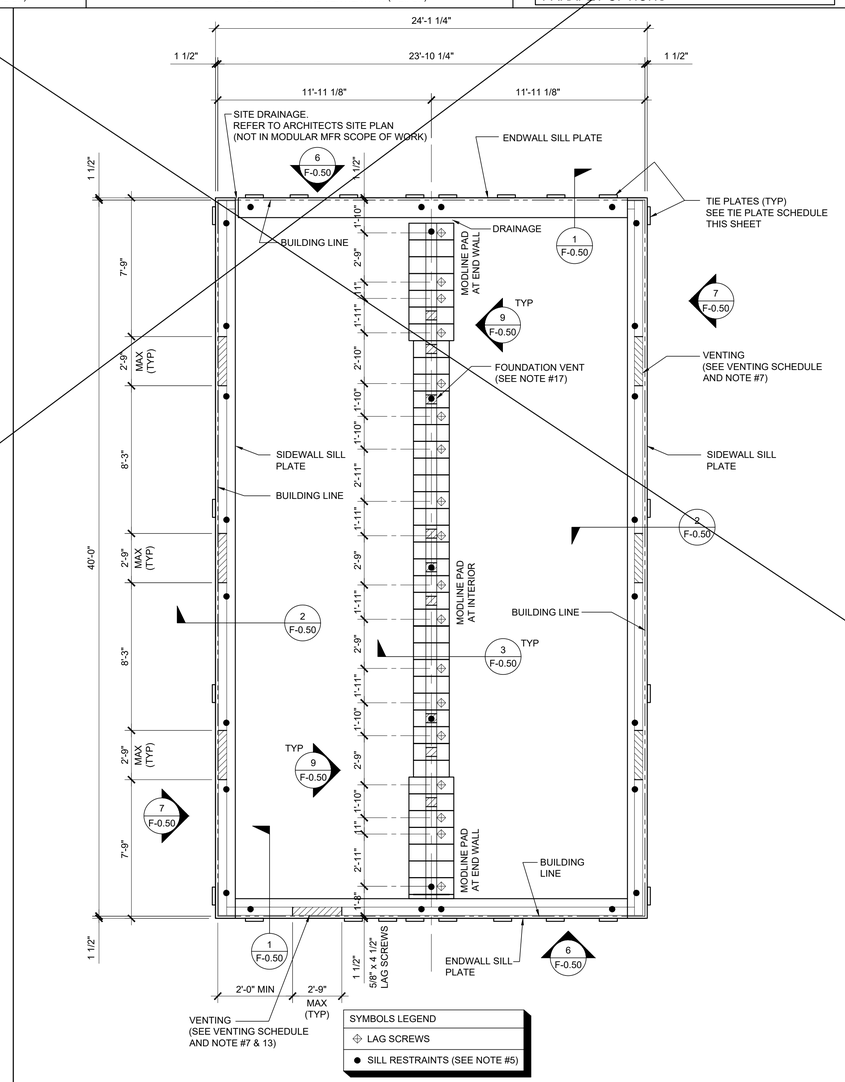
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 24' x 40' | 4 | 8 | 24 |




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 3




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
24x40
(150 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

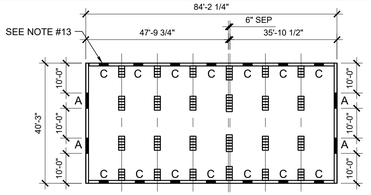
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

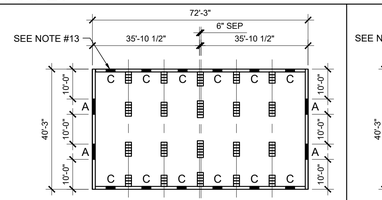
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.04

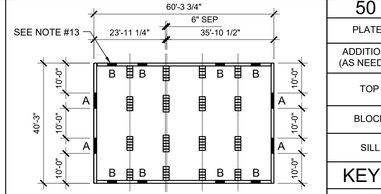
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



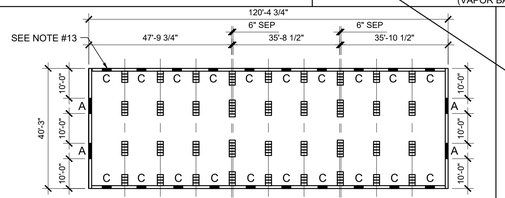

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(12) - "C" VENT = 13.50 SF
23.74 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)



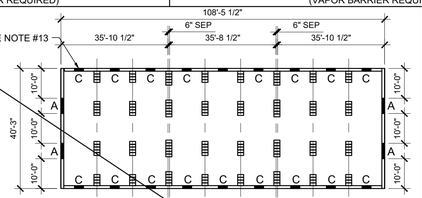

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(9) - "C" VENT = 10.125 SF
20.36 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)



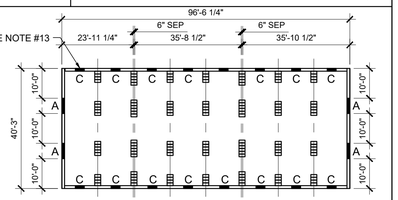

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(8) - "B" VENT = 6.00 SF
16.24 SF TOTAL VENTILATION (> 16.13 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(20) - "C" VENT = 22.50 SF
32.74 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(17) - "B" VENT = 19.12 SF
29.36 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(15) - "B" VENT = 16.87 SF
27.11 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 50 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE | SEPARATION PAD AT ENDWALL ☐ CONTINUOUS | SEPARATION PAD AT INTERIOR ☐ SEPARATE | SEPARATION PAD AT INTERIOR ☐ CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x12 (2x14)[15] | 2x12 (2x14)[15] | (5) 2x12 x 2'-0" | (5) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (8) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (7) 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 5'-1 1/2" x 6" = 2.56 S.F. VENTILATION

"VENT OPENING AT SILL AND BLOCK PLATES"

VENT "B" (ENDWALL): 3'-0" x 3" = 0.75 S.F. VENTILATION

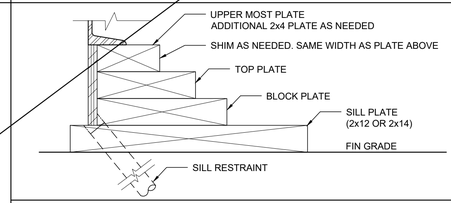
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "C" (ENDWALL): 3'-0" x 4 1/2 " = 1.125 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 5'-1 1/2" TO 4'-0", SEE VENTING SCHEDULE

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION
15. IF PARAPET IS HIGHER THAN 18". COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

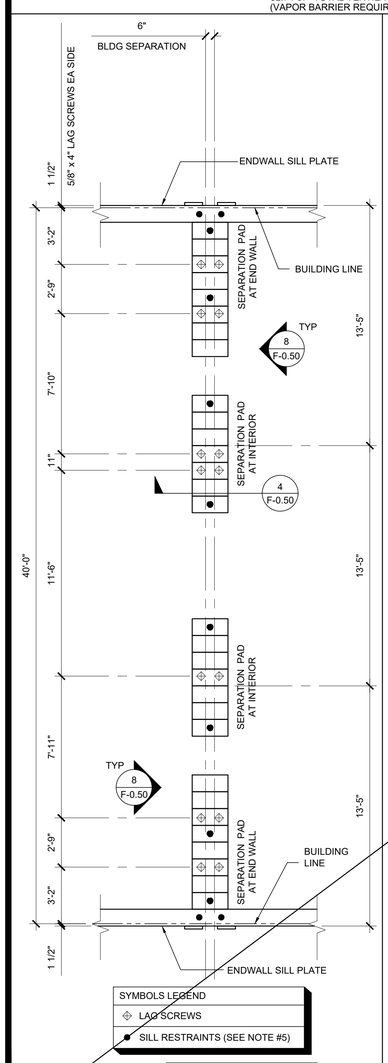
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO SILL PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 36' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

| | BUILDING SIZE | BUILDING AREA | REQ. VENTING | SIDE VENTING | END VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|---|
| W/O PARAPET | 36' x 40' | 1440 SF | 9.6 SF (1/150) | 5.125' x 6" = (4) 2.56 SF/EA | - | 10.24 SF SEE NOTE #8 |
| W/ PARAPET | 36' x 40' | 1440 SF | 9.6 SF (1/150) | 4'-0" x 6" = (4) 2 SF/EA (8 SF TOTAL) | 3'-0" x 3" = (2) 1.5 SF/EA (.75 SF TOTAL) | 9.5 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE (14 / F-0.50)

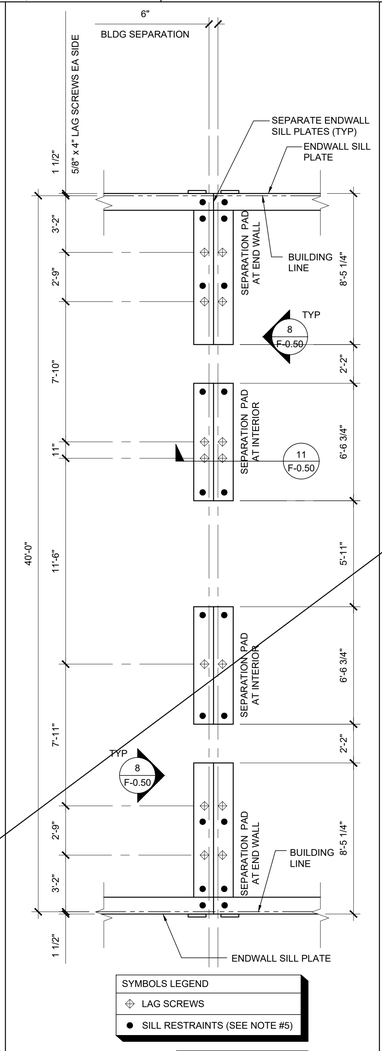
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 36' x 40' | 4 | 10 | 28 |




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**CONTINUOUS SILL PLATES**

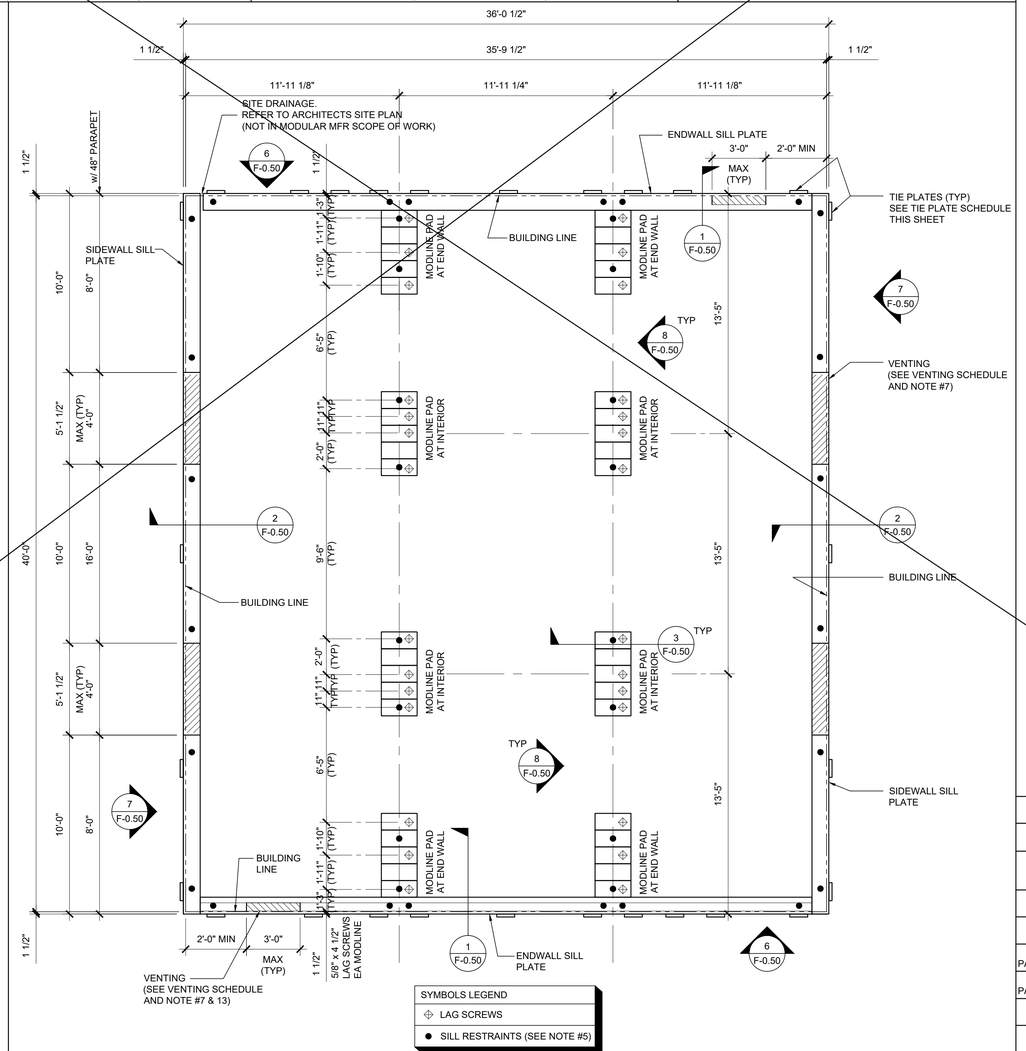
FOOTING AT SEP SCALE: 1/4" = 1' - 0" 3




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**SEPARATE SILL PLATES**

FOOTING AT SEP SCALE: 1/4" = 1' - 0" 2




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
## 36' x 40'
## (50 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
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PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

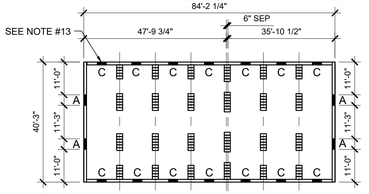
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

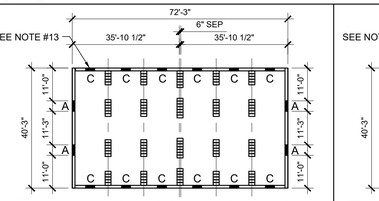
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.11

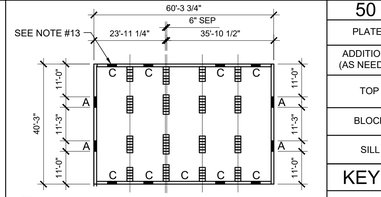
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



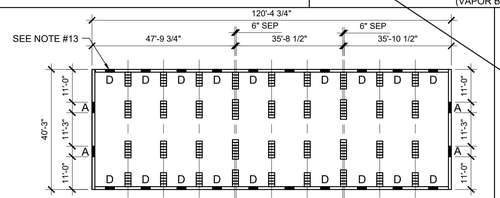

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(14) - "C" VENT = 15.75 SF
22.75 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)



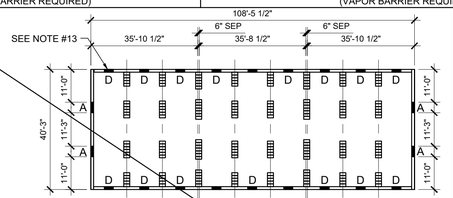

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(12) - "C" VENT = 13.50 SF
20.50 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)



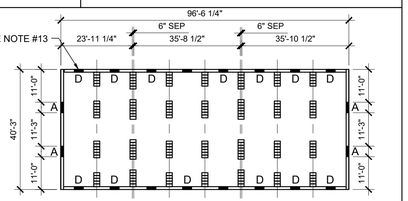

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(9) - "C" VENT = 10.12 SF
17.12 SF TOTAL VENTILATION (> 16.13 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(18) - "D" VENT = 27.00 SF
34.00 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(15) - "D" VENT = 22.50 SF
29.50 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 7.00 SF
(13) - "B" VENT = 19.50 SF
26.50 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 50 + 15 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE | SEPARATION PAD AT ENDWALL ☐ CONTINUOUS | SEPARATION PAD AT INTERIOR ☐ SEPARATE | SEPARATION PAD AT INTERIOR ☐ CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x12 (2x14)[15] | 2x12 (2x14)[15] | (6) 2x12 x 2'-0" | (6) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (2) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (8) 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 3'-6" x 6" = 1.75 S.F. VENTILATION
"VENT OPENING AT SILL AND BLOCK PLATES"

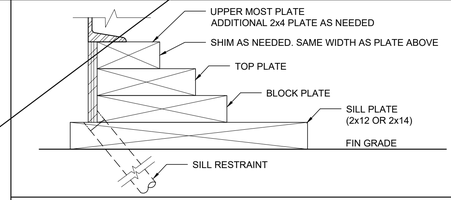
VENT "B" (ENDWALL): 3'-0" x 3" = 0.75 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "C" (ENDWALL): 3'-0" x 4 1/2 " = 1.125 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): 3'-0" x 6" = 1.5 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 3'-6" TO 3'-0", SEE VENTING SCHEDULE

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

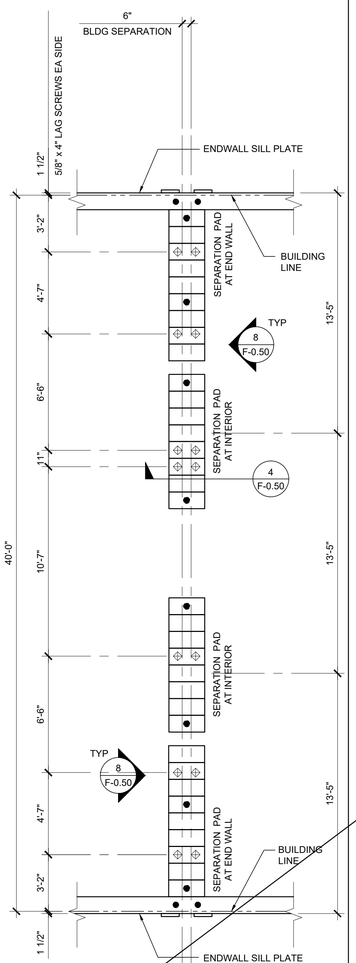
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 36' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

| | BUILDING SIZE | BUILDING AREA | REQ. VENTING | SIDE VENTING | END VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|---|
| W/O PARAPET | 36' x 40' | 1440 SF | 9.6 SF (1/150) | 3'-6" x 6" = (4) 1.75 SF/EA (7 SF TOTAL) | 3'-0" x 3" = (3) 0.75 SF/EA (3 SF TOTAL) | 10 SF SEE NOTE #8 |
| W/ PARAPET | 36' x 40' | 1440 SF | 9.6 SF (1/150) | 3'-0" x 6" = (4) 1.5 SF/EA (6 SF TOTAL) | 3'-0" x 3" = (6) 0.75 SF/EA (4.5 SF TOTAL) | 10.5 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

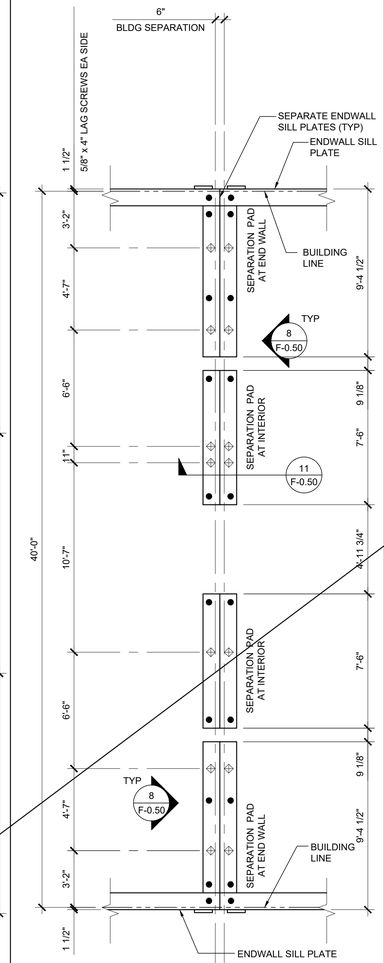
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 36' x 40' | 4 | 10 | 28 |




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**CONTINUOUS SILL PLATES**

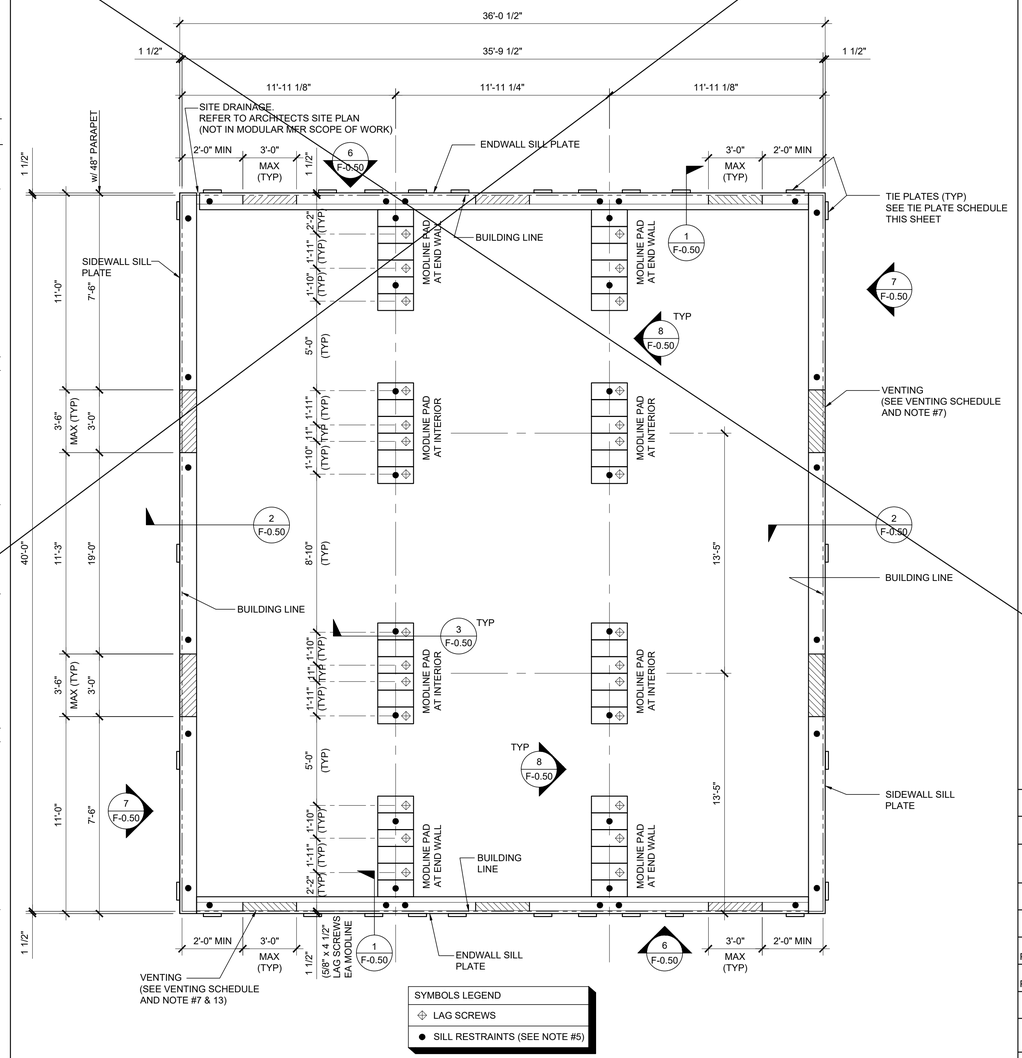
FOOTING AT SEP SCALE: 1/4" = 1' - 0" | 3




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**SEPARATE SILL PLATES**

FOOTING AT SEP SCALE: 1/4" = 1' - 0" | 2




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
36x40
(50+15 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29075 STRUCTURAL STATE OF CALIFORNIA

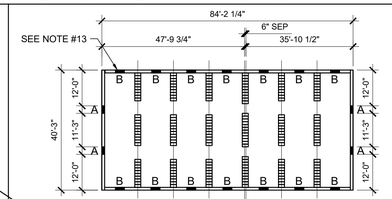
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

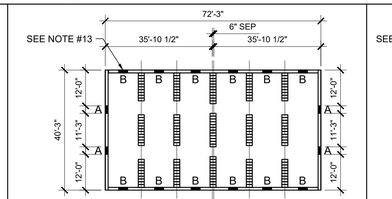
P.C. SHEET NUMBER

F-0.12

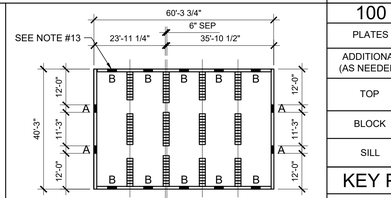
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



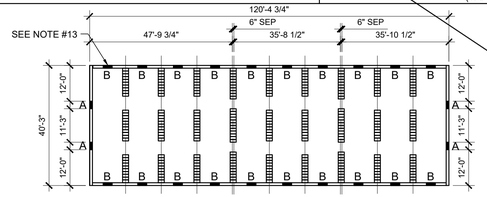

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 8.24 SF
(11) - "B" VENT = 9.52 SF
17.76 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)



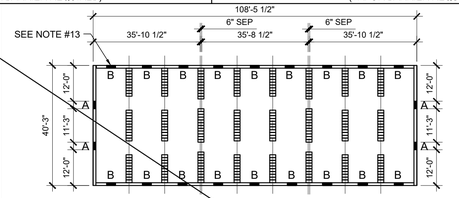

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 8.24 SF
(12) - "B" VENT = 8.16 SF
16.4 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)



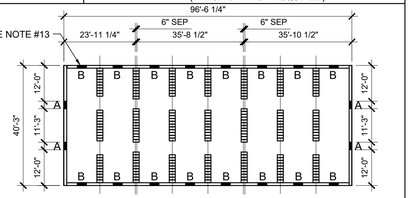

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(4) - "A" VENT = 8.24 SF
(10) - "B" VENT = 6.8 SF
15.04 SF TOTAL VENTILATION (> 16.13 SF)
(VAPOR BARRIER REQUIRED)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 8.24 SF
(20) - "B" VENT = 13.6 SF
21.84 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 8.24 SF
(18) - "B" VENT = 12.24 SF
20.48 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 8.24 SF
(16) - "B" VENT = 10.88 SF
19.12 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 100 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE | SEPARATION PAD AT ENDWALL ☐ CONTINUOUS | SEPARATION PAD AT INTERIOR ☐ SEPARATE | SEPARATION PAD AT INTERIOR ☑ CONTINUOUS |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x14 (2x16)[15] | 2x14 (2x16)[15] | (10) 2x12 x 2'-0" | (11) 2x12 x 2'-0" | (2) ROWS OF 2x14 | 2x12 x 2'-0" | (2) ROWS OF 2x14 | 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

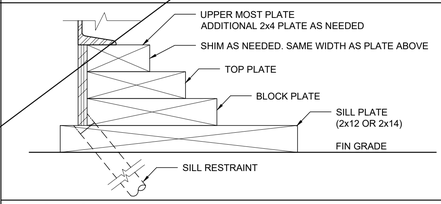
VENT "A" (SIDEWALL) : 2'-6" x 6" = 1.25 S.F. VENTILATION

"VENT OPENING AT SILL AND BLOCK PLATES"

VENT "B" (ENDWALL): 2'-9" x 3" = 0.68 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION
15. IF PARAPET IS HIGHER THAN 18". COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

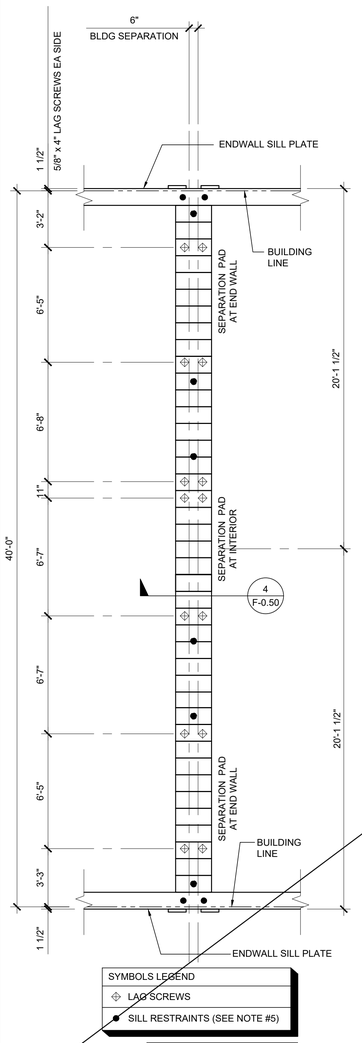
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 36' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

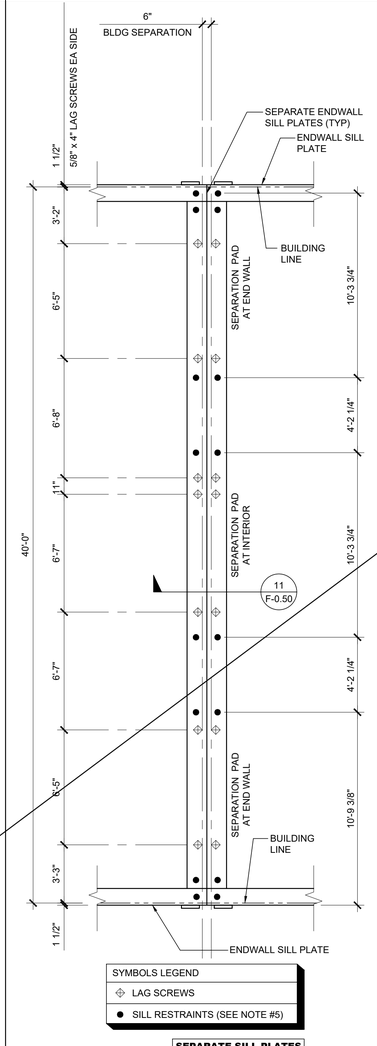
| BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| 36' x 40' | 1440 SF | 9.6 SF (1/150) | 2'-6" x 6" = (4) 1.25 SF/ EA (5 SF TOTAL) (VAPOR BARRIER REQUIRED) | 2.75' x 3" = (6) .68 SF/ EA (4.08 SF TOTAL) | 9.08 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

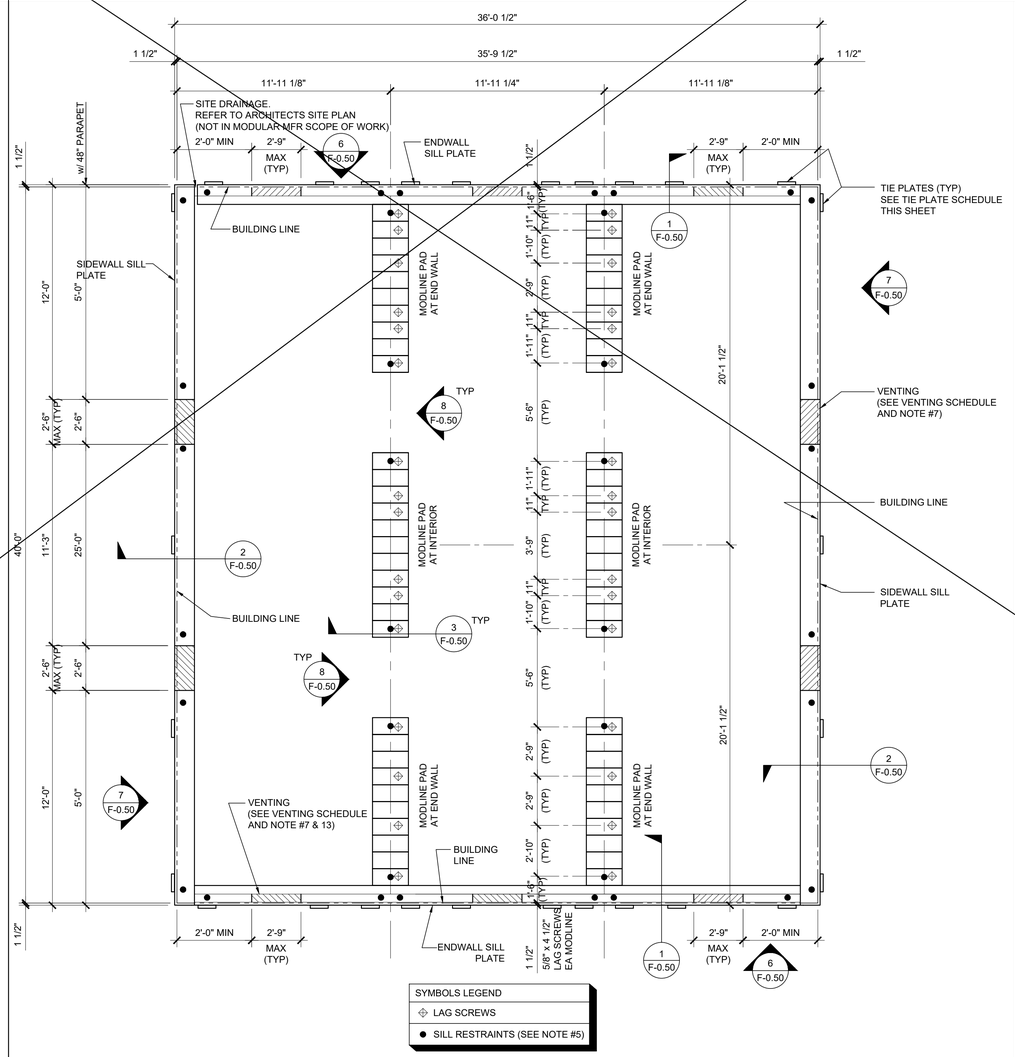
| BUILDING SIZE | SIDE WALL TIE PLATE | END WALL TIE PLATE | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 36' x 40' | 4 | 10 | 28 |




FOOTING AT SEP SCALE: 1/4" = 1' - 0" 3




FOOTING AT SEP SCALE: 1/4" = 1' - 0" 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
36x40
(100 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

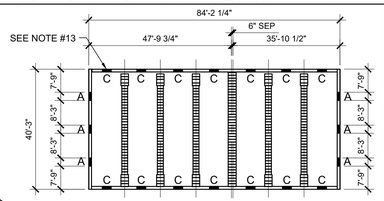
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

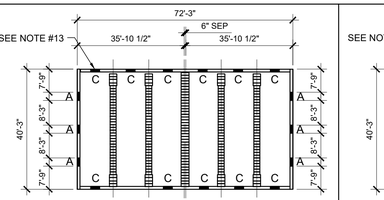
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.13

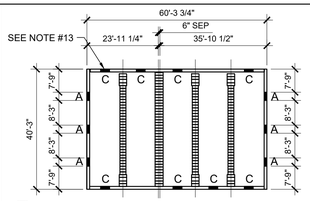
# KEY PLAN VENTING CALCULATIONS



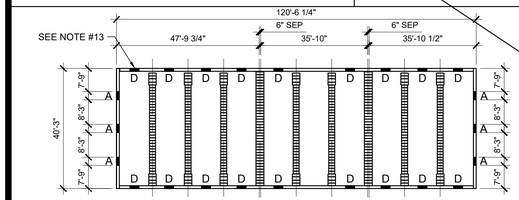

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(14) - "C" VENT = 14.43 SF
22.68 SF TOTAL VENTILATION (> 22.66 SF)



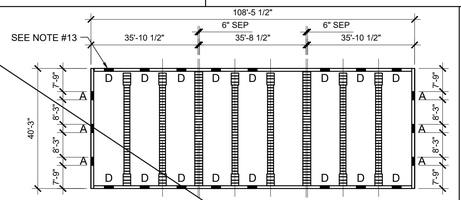

☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(11) - "C" VENT = 11.34 SF
19.59 SF TOTAL VENTILATION (> 19.46 SF)



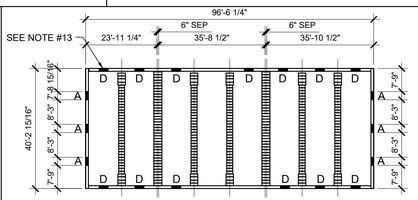

☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.13 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(8) - "C" VENT = 8.25 SF
16.50 SF TOTAL VENTILATION (> 16.13 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(18) - "D" VENT = 24.75 SF
33.00 SF TOTAL VENTILATION (> 32.53 SF)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(16) - "D" VENT = 22.00 SF
30.25 SF TOTAL VENTILATION (> 29.2 SF)




☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(13) - "D" VENT = 17.87 SF
26.12 SF TOTAL VENTILATION (> 26 SF)

# WOOD FOUNDATION PLATE SCHEDULE

## 150 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | PLATES AT SEPARATION | |
|---|---|---|---|---|---|---|
| | | | | | ☐ SEPARATE BLDGS | ☐ ONE BLDG |
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x12 | 2x12 | (2) ROWS OF 2x8 (CONT) | 2x12 |
| SILL | 2x14 | 2x14 | (7) 2x12 x 30" | 2x12 x 24" | (2) ROWS OF 2x14 (CONT) | 2x12 x 30" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 2'-9" x 6" = 1.375 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

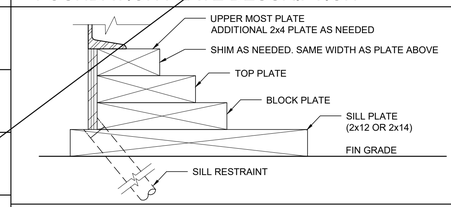
VENT "B" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 2'-9" x 3" = 0.68 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "C" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 2'-9" x 4 1/2" = 1.031 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 2'-9" x 6" = 1.375 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

**150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTIONS**

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

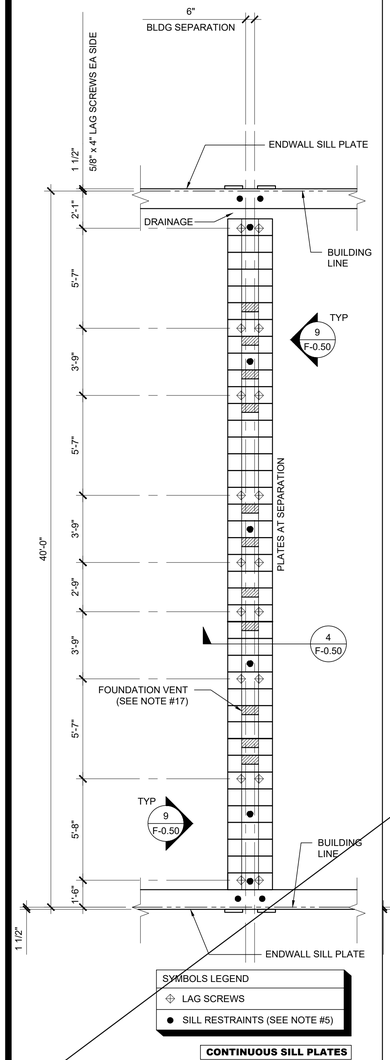
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 36' x 40' | 5" OC AT ENDWALL - 1 / F-0.50<br>12" OC AT SIDEWALL - 2 / F-0.50<br>9" OC AT SEPARATION - 4 / F-0.50 |

# VENTING SCHEDULE

| BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| 36' x 40' | 1440 SF | 9.6 SF (1/150) | 2.75' x 6" = (6) 1.375 SF/ EA (8.25 SF TOTAL) | 2.75' x 3" = (2) 0.68 SF/ EA (1.36 SF TOTAL) | 9.61 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

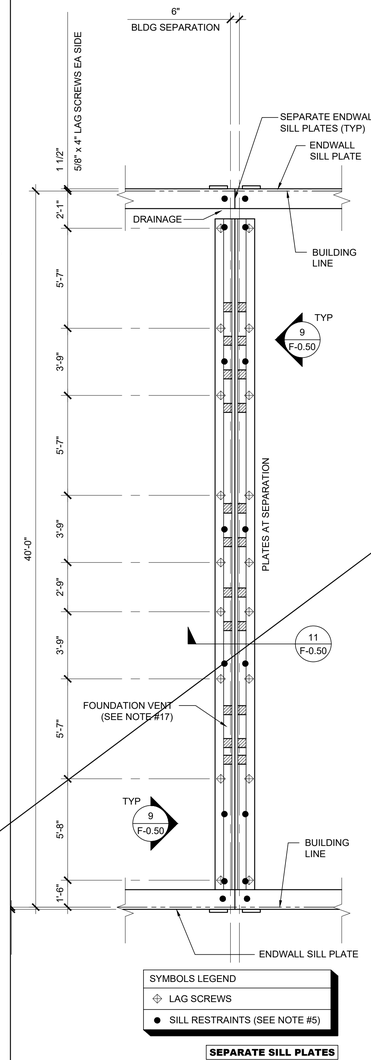
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 36' x 40' | 4 | 12 | 32 |




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**CONTINUOUS SILL PLATES**

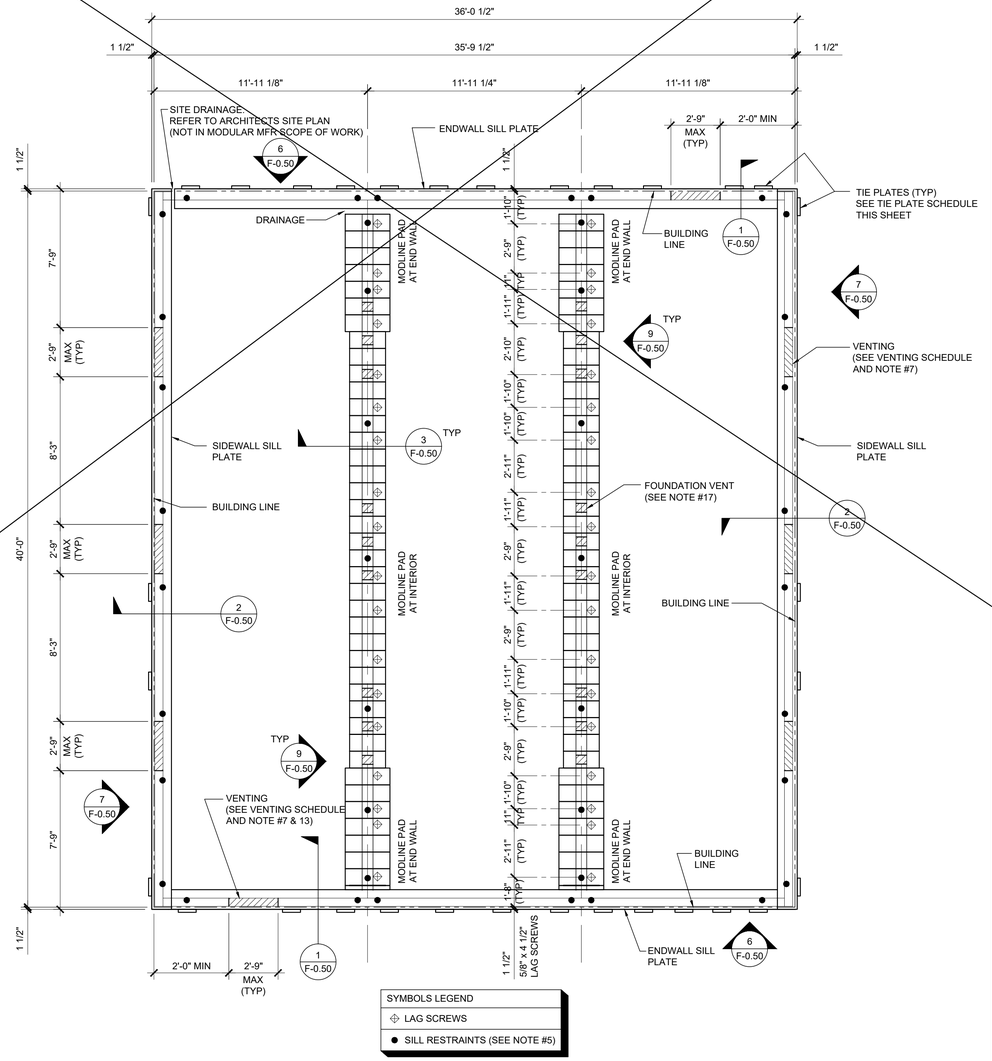
FOOTING AT SEP SCALE: 1/4" = 1' - 0" 3




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**SEPARATE SILL PLATES**

FOOTING AT SEP SCALE: 1/4" = 1' - 0" 2




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

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DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
36x40
(150 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

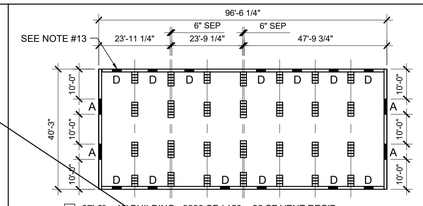
REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

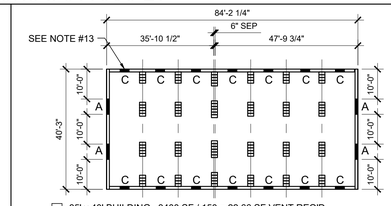
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DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.14

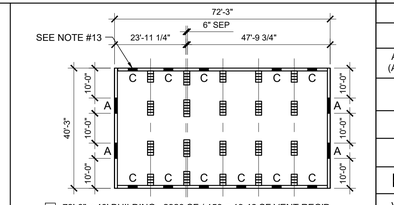
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



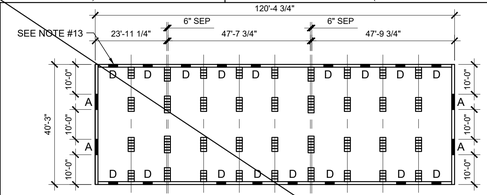

☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 8 SF
(13) - "D" VENT = 19.5 SF
27.5 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)



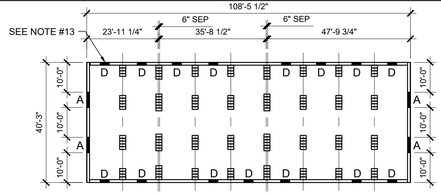

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 8 SF
(14) - "C" VENT = 15.75 SF
23.75 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)




☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 8 SF
(11) - "C" VENT = 12.37 SF
20.37 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 8 SF
(17) - "D" VENT = 25.5 SF
33.5 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 8 SF
(15) - "D" VENT = 22.5 SF
30.5 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 50 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE BLDGS | SEPARATION PAD AT ENDWALL ☐ ONE BLDG | SEPARATION PAD AT INTERIOR ☐ SEPARATE BLDGS | SEPARATION PAD AT INTERIOR ☐ ONE BLDG |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x12 (2x14)[15] | 2x12 (2x14)[15] | (5) 2x12 x 2'-0" | (5) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (8) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (7) 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 4' x 6" = 2 S.F. VENTILATION
"VENT OPENING AT SILL AND BLOCK PLATES"

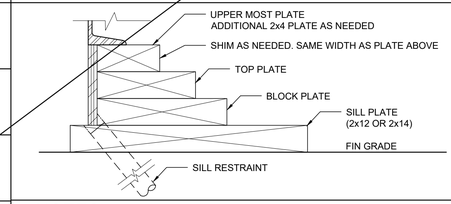
VENT "B" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 3'-0" x 3" = 0.75 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "C" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 3'-0" x 4 1/2" = 1.125 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 3'-0" x 6" = 1.5 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 5'-1 1/2" TO 4'-0", SEE VENTING SCHEDULE

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

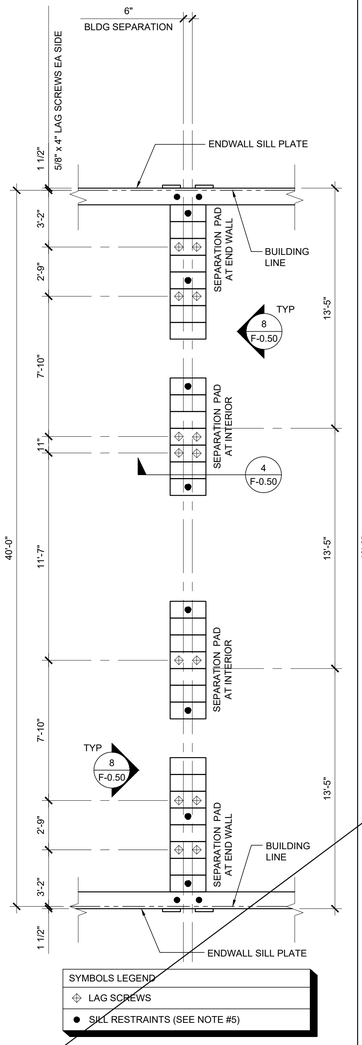
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO SILL PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 48' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

| | BLDG. SIZE | BLDG. AREA | REQ. VENT | SIDEWALL VENT. | ENDWALL VENT. | TOTAL SUPPLIED |
|---|---|---|---|---|---|---|
| W/O PARAPET | 48' x 40' | 1920 SF | 12.8 SF (1/150) | 5.125" x 6" = (4) 2.56 SF/ EA (10.25 SF TOTAL) | 3'-0" x 3" = (4) .75 SF/ EA (3.00 SF TOTAL) | 13.25 SF SEE NOTE #8 |
| W/ PARAPET | 48' x 40' | 1920 SF | 12.8 SF (1/150) | 4'-0" x 6" = (4) 2 SF/ EA (8 SF TOTAL) | 3'-0" x 3" = (8) .75 SF/ EA (6.00 SF TOTAL) | 14 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE (14 / F-0.50)

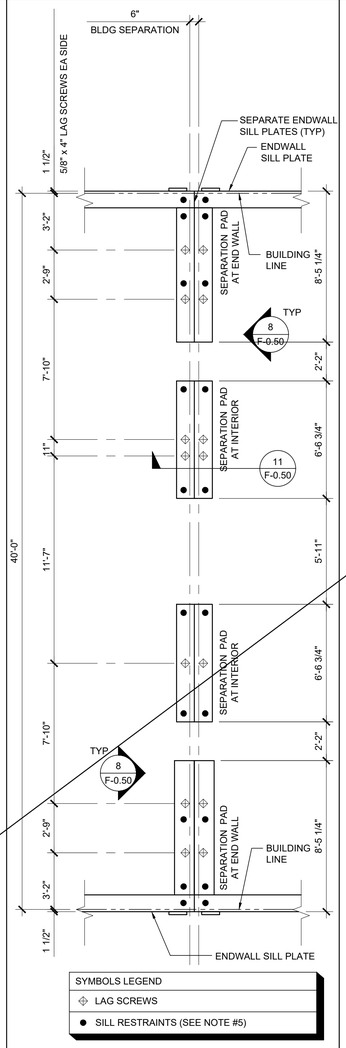
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 48' x 40' | 4 | 10 | 28 |




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**ONE BUILDING**

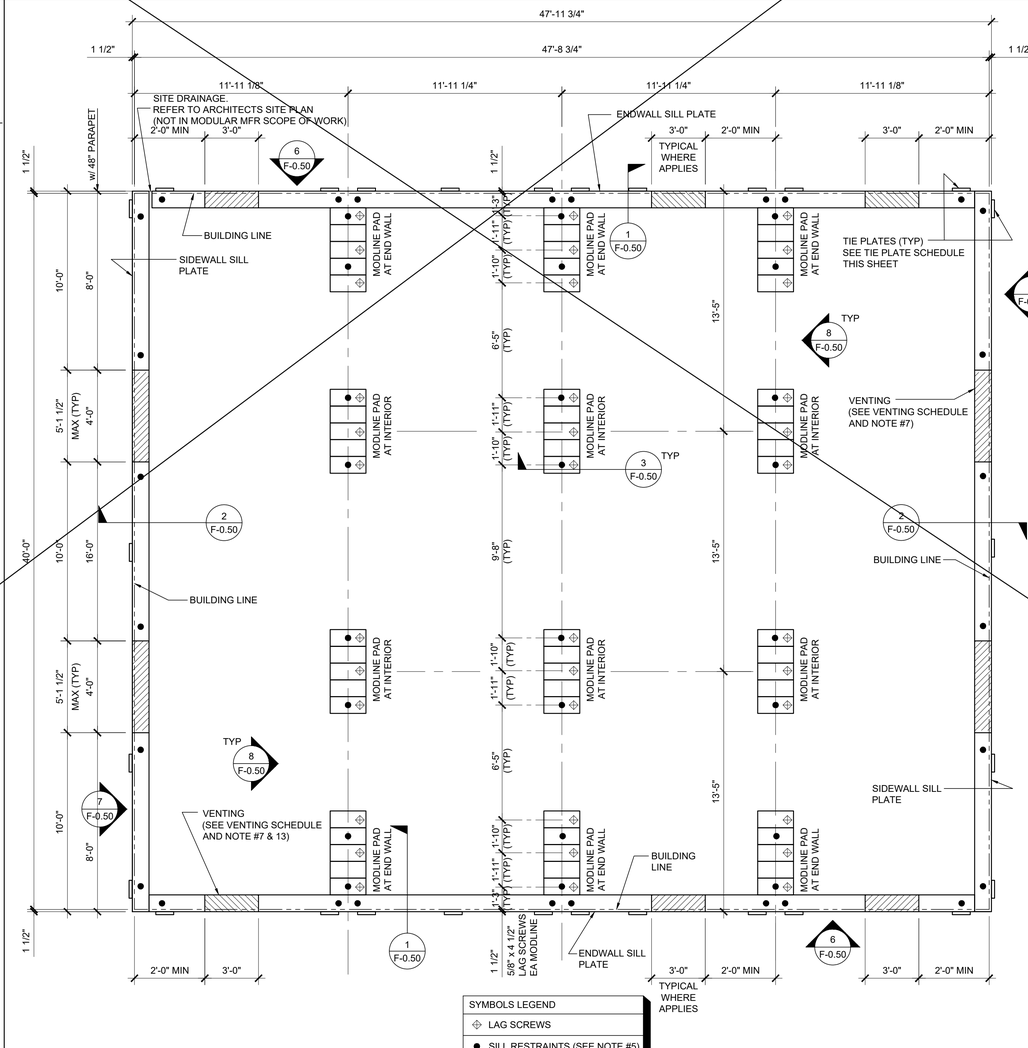
FOOTING AT SEP SCALE: 1/4" = 1'-0" 3




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**SEPARATE BUILDINGS**

FOOTING AT SEP SCALE: 1/4" = 1'-0" 2




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

FOUNDATION PLAN SCALE: 1/4" = 1'-0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
## 48' x 40'
## (50 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

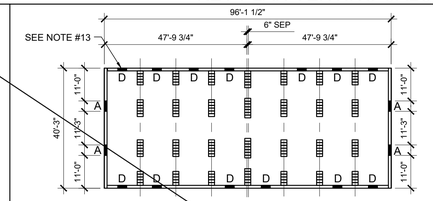
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

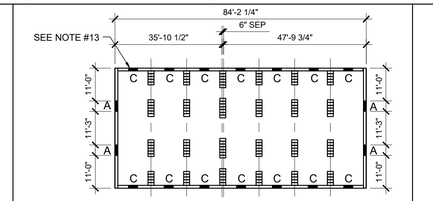
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.21

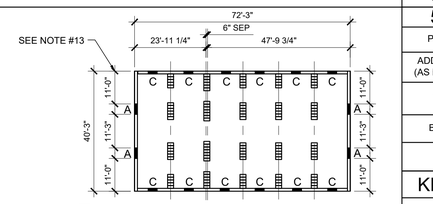
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



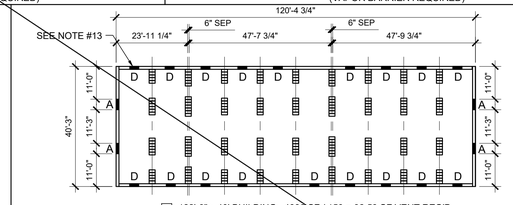

☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 7 SF
(13) - "D" VENT = 19.5 SF
26.5 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)



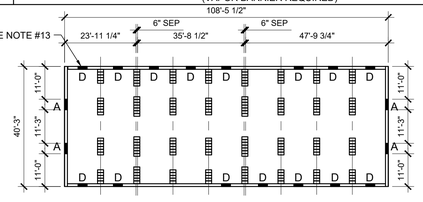

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 7 SF
(14) - "C" VENT = 15.75 SF
22.75 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)




☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 7 SF
(12) - "C" VENT = 13.5 SF
20.5 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 7 SF
(18) - "D" VENT = 27 SF
34 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 7 SF
(15) - "D" VENT = 22.5 SF
29.5 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 50 + 15 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE BLDGS | SEPARATION PAD AT ENDWALL ☐ ONE BLDG | SEPARATION PAD AT INTERIOR ☐ SEPARATE BLDGS | SEPARATION PAD AT INTERIOR ☐ ONE BLDG |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x12 (2x14)[15] | 2x12 (2x14)[15] | (6) 2x12 x 2'-0" | (6) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (3) 2x12 x 2'-0" | (2) ROWS OF 2x14 | (8) 2x12 x 2'-0" |

# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 3'-6" x 6" = 1.75 S.F. VENTILATION
"VENT OPENING AT SILL AND BLOCK PLATES"

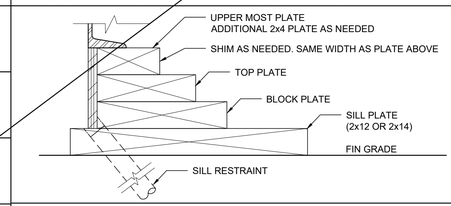
VENT "B" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 3'-0" x 3" = 0.75 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "C" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 3'-0" x 4 1/2" = 1.125 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "D" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) 3'-0" x 6" = 1.5 S.F. VENTILATION
"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 3'-6" TO 3'-0", SEE VENTING SCHED.

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
MATERIALS:
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
INSTALLATION RECOMMENDATIONS:
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION
15. IF PARAPET IS HIGHER THAN 18". COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

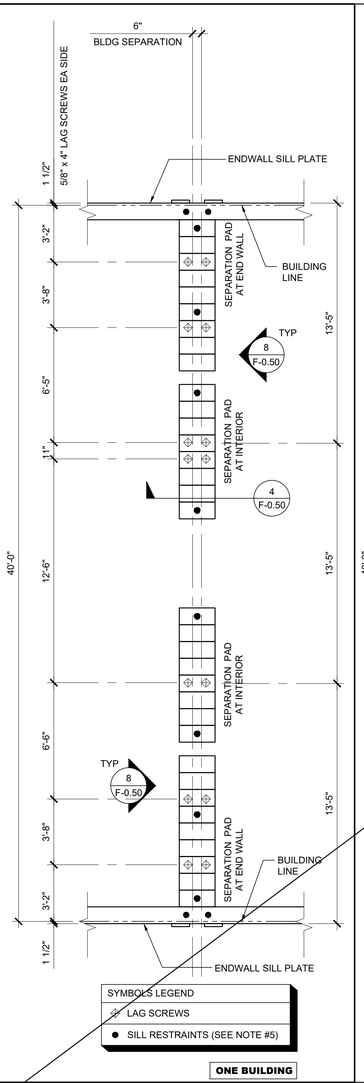
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 48' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

| | BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|---|
| W/O PARAPET | 48' x 40' | 1920 SF | 12.8 SF (1/150) | 3'-6" x 6" = (4) 1.75 SF/EA(7SF TOTAL) | 3'-0" x 3" = (8).75 SF/EA(6SF TOTAL) | 13.0 SF SEE NOTE #8 |
| W/ PARAPET | 48' x 40' | 1920 SF | 12.8 SF (1/150) | 3'-0" x 6" = (4) 1.5 SF/EA(6SF TOTAL) | 36" x 4 1/2" = (7)1.125 SF/EA(7.87SF TOTAL) | 13.87 SF SEE NOTE #8 |

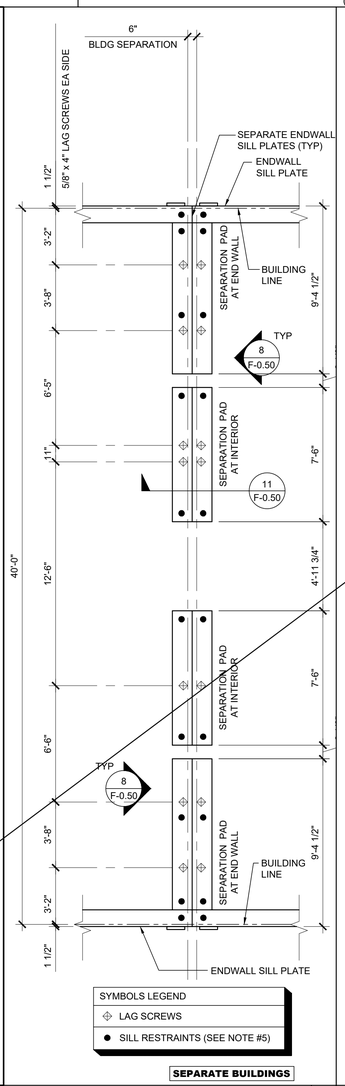
# TIE PLATE SCHEDULE

| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 48' x 40' | 4 | 10 | 28 |



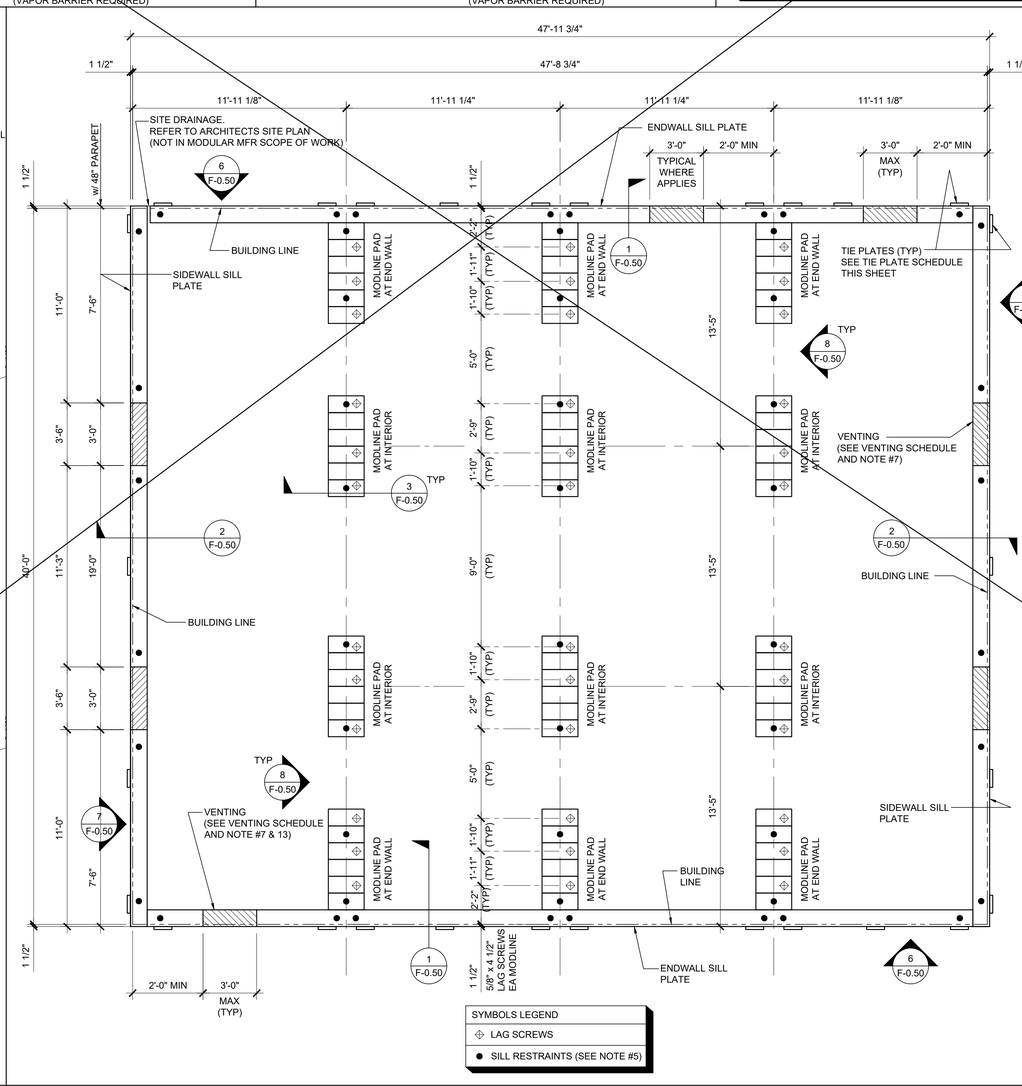

ONE BUILDING

FOOTING AT SEP SCALE: 1/4" = 1' - 0" 3




SEPARATE BUILDINGS

FOOTING AT SEP SCALE: 1/4" = 1' - 0" 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
48x40
(50+15 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

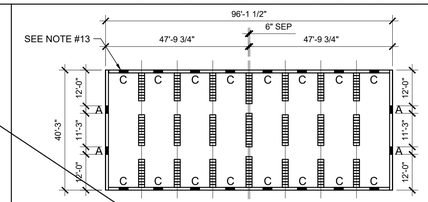
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

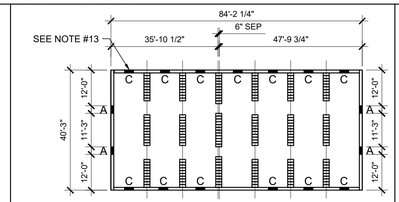
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER
F-0.22

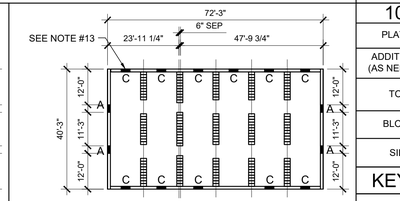
# KEY PLAN VENTING CALCULATIONS w/o PARAPET



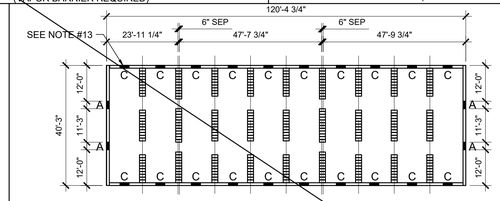

☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 5 SF
(16) - "C" VENT = 22 SF
27 SF TOTAL VENTILATION (> 26 SF)
(VAPOR BARRIER REQUIRED)



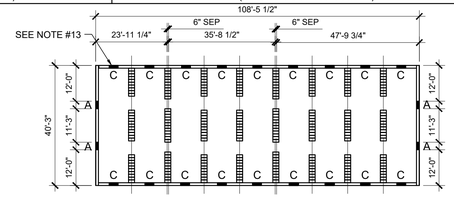

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 5 SF
(13) - "C" VENT = 17.875 SF
22.875 SF TOTAL VENTILATION (> 22.66 SF)
(VAPOR BARRIER REQUIRED)




☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 5 SF
(11) - "C" VENT = 15.125 SF
20.125 SF TOTAL VENTILATION (> 19.46 SF)
(VAPOR BARRIER REQUIRED)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.5 SF VENT REQ'D
(4) - "A" VENT = 5 SF
(20) - "C" VENT = 27.5 SF
32.5 SF TOTAL VENTILATION (> 32.5 SF)
(VAPOR BARRIER REQUIRED)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 5 SF
(18) - "C" VENT = 24.75 SF
29.75 SF TOTAL VENTILATION (> 29.2 SF)
(VAPOR BARRIER REQUIRED)

# WOOD FOUNDATION PLATE SCHEDULE

## 100 PSF

| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | SEPARATION PAD AT ENDWALL ☐ SEPARATE BLDGS | SEPARATION PAD AT ENDWALL ☐ ONE BLDG | SEPARATION PAD AT INTERIOR ☐ SEPARATE BLDGS | SEPARATION PAD AT INTERIOR ☐ ONE BLDG |
|---|---|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x10 | 2x10 | (2) ROWS OF 2x8 | 2x12 | (2) ROWS OF 2x8 | 2x12 |
| SILL | 2x14 (2x16)[15] | 2x14 (2x16)[15] | (10) 2x12 x 2'-0" | (11) 2x12 x 2'-0" | (2) ROWS OF 2x14 | 2x12 x 2'-0" | (2) ROWS OF 2x14 | 2x12 x 2'-0" |

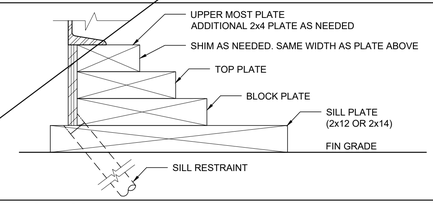
# KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL) : 2'-6" x 6" = 1.25 S.F. VENTILATION
"VENT OPENING AT SILL AND BLOCK PLATES"

VENT "B" (ENDWALL): 2'-9" x 3" = 0.68 S.F. VENTILATION
(OPTIONAL AT MULTPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

VENT "C" (ENDWALL): 2'-9" x 6" = 1.375 S.F. VENTILATION
(OPTIONAL AT MULTPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
MATERIALS:
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
INSTALLATION RECOMMENDATIONS:
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

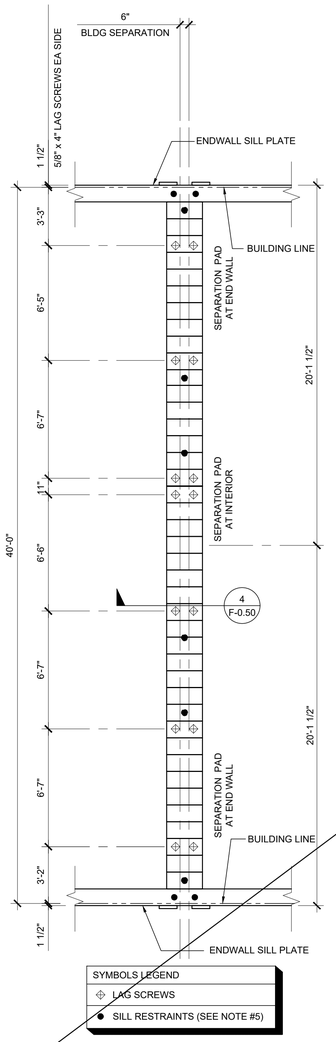
| BUILDING SIZE | (2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 48' x 40' | 5" OC AT ENDWALL - 1 / F-0.50B<br>12" OC AT SIDEWALL - 2 / F-0.50B<br>10" OC AT SEPARATION - 4 / F-0.50B |

# VENTING SCHEDULE

| BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| 48' x 40' | 1920 SF | 12.8 SF (1/150) | 2'-6" x 6" = (4) 1.25 SF/ EA (5 SF TOTAL) | 2'-9" x 4 1/2" = (8) 1.031 SF/ EA (8.24 SF TOTAL) | 13.24 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

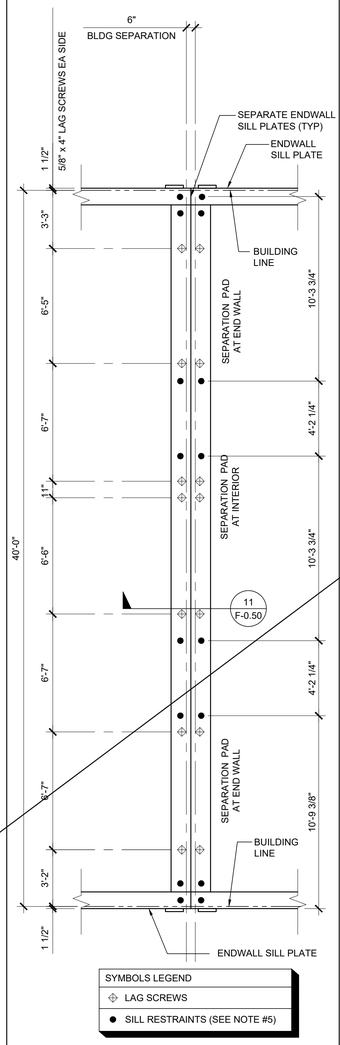
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 48' x 40' | 4 | 10 | 28 |




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**ONE BUILDING**

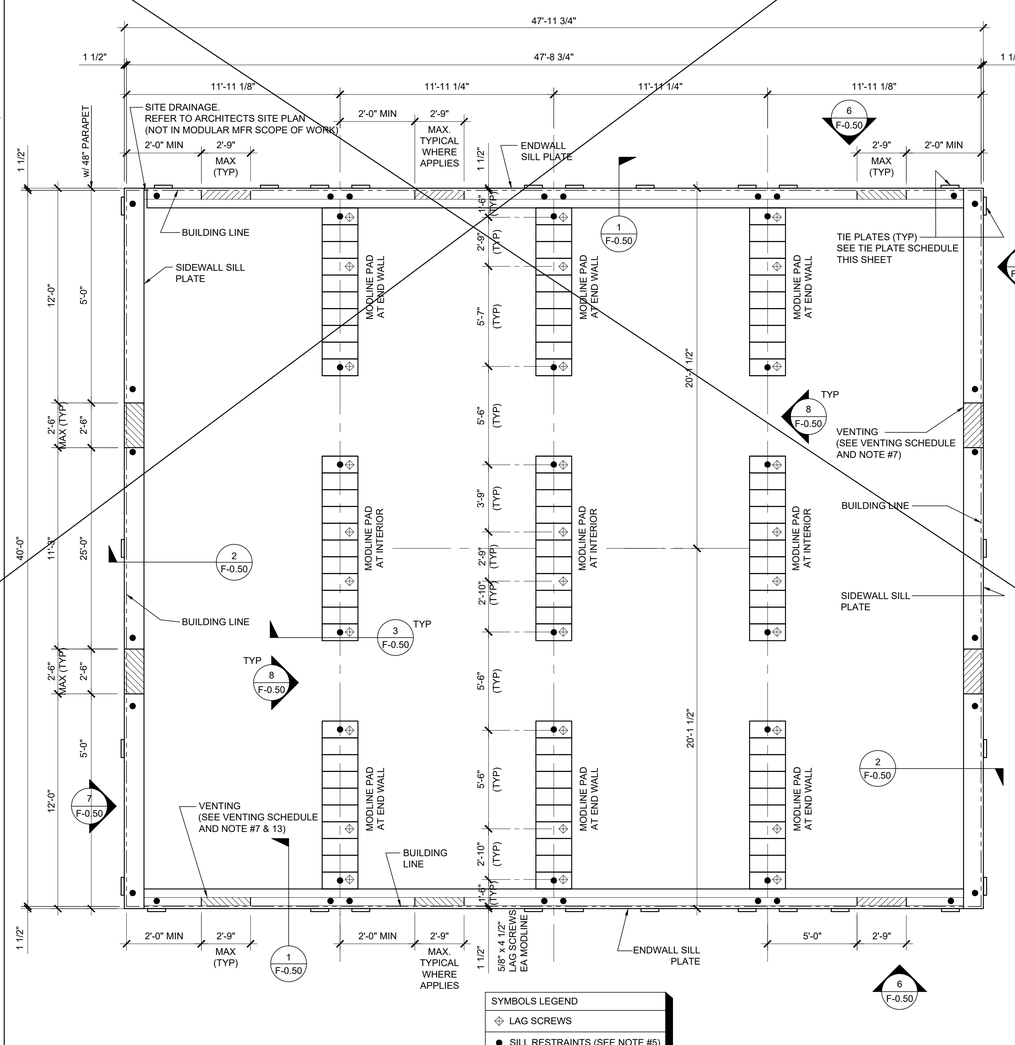
FOOTING AT SEP SCALE: 1/4" = 1' - 0" 3




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

**SEPARATE BUILDINGS**

FOOTING AT SEP SCALE: 1/4" = 1' - 0" 2




SYMBOLS LEGEND
LAG SCREWS
SILL RESTRAINTS (SEE NOTE #5)

FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc


PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
48x40
(100 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

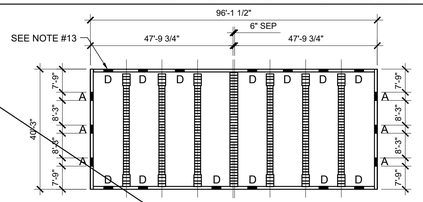
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

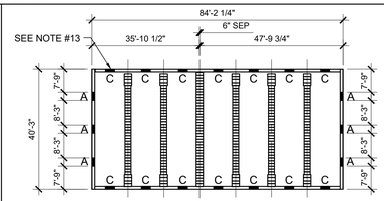
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.23

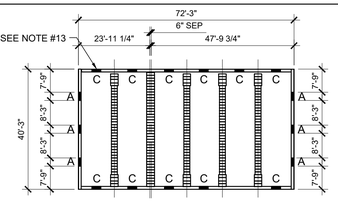
# KEY PLAN VENTING CALCULATIONS



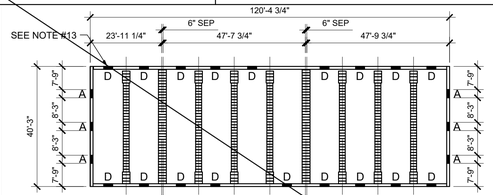

☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(13) - "D" VENT = 17.67 SF
26.12 SF TOTAL VENTILATION (> 26 SF)



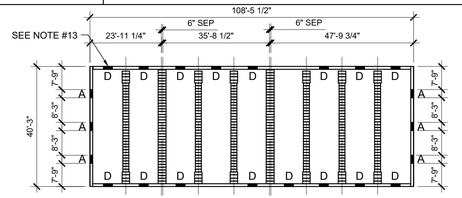

☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(14) - "C" VENT = 14.43 SF
22.68 SF TOTAL VENTILATION (> 22.66 SF)




☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(11) - "C" VENT = 11.34 SF
19.59 SF TOTAL VENTILATION (> 19.46 SF)




☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(18) - "D" VENT = 24.75 SF
33.00 SF TOTAL VENTILATION (> 32.53 SF)




☐ 109'-6" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(6) - "A" VENT = 8.25 SF
(16) - "D" VENT = 22.00 SF
30.25 SF TOTAL VENTILATION (> 29.2 SF)

# WOOD FOUNDATION PLATE SCHEDULE

## 150 PSF

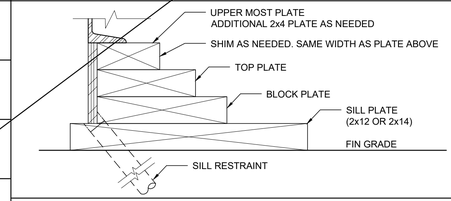
| PLATES | END WALL | SIDE WALL | MODLINE PAD AT END WALL | MODLINE PAD AT INTERIOR | PLATES AT SEPARATION ☐ SEPARATE BLDGS | PLATES AT SEPARATION ☐ ONE BLDG |
|---|---|---|---|---|---|---|
| ADDITIONAL (AS NEEDED) | 2x4 | 2x4 | 2x6 | 2x6 | (2) ROWS OF 2x4 | 2x12 |
| TOP | 2x6 | 2x6 | 2x8 | 2x8 | (2) ROWS OF 2x6 | 2x12 |
| BLOCK | 2x8 | 2x8 | 2x12 | 2x12 | (2) ROWS OF 2x8 (CONT) | 2x12 |
| SILL | 2x14 | 2x14 | (7) 2x12 x 30" | 2x12 x 24" | (2) ROWS OF 2x14 (CONT) | 2x12 x 30" |

# KEY PLAN VENTING SCHEDULE

| | |
|---|---|
| VENT "A" (SIDEWALL): | 2'-9" x 6" = 1.375 S.F. VENTILATION<br>"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES" |
| VENT "B" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) | 2'-9" x 3" = 0.68 S.F. VENTILATION<br>"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES" |
| VENT "C" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) | 2'-9" x 4 1/2" = 1.031 S.F. VENTILATION<br>"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES" |
| VENT "D" (ENDWALL): (OPTIONAL AT MULTIPLE BLDG SETS) | 2'-9" x 6" = 1.375 S.F. VENTILATION<br>"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES" |

150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTIONS

# FOUNDATION PLATE DESCRIPTION




# NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F-0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

# NAILING SCHEDULE

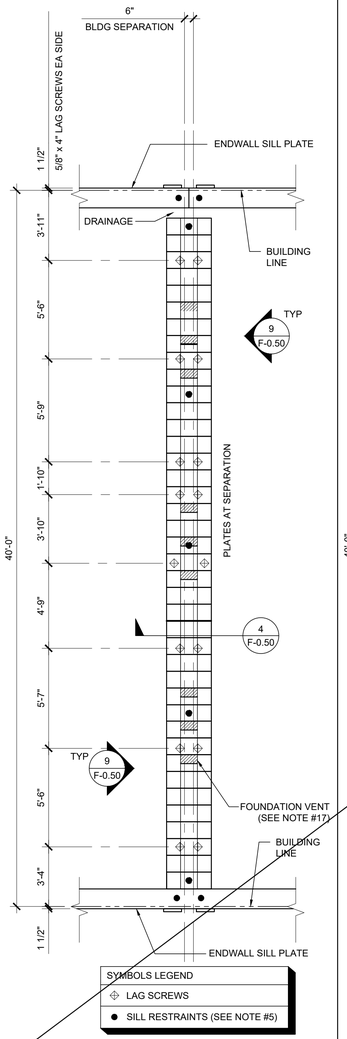
| BUILDING SIZE | (2) 16d BOX NAILS<br>PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE |
|---|---|
| 48' x 40' | 5" OC AT ENDWALL - 1 / F-0.50<br>12" OC AT SIDEWALL - 2 / F-0.50<br>9" OC AT SEPARATION - 4 / F-0.50 |

# VENTING SCHEDULE

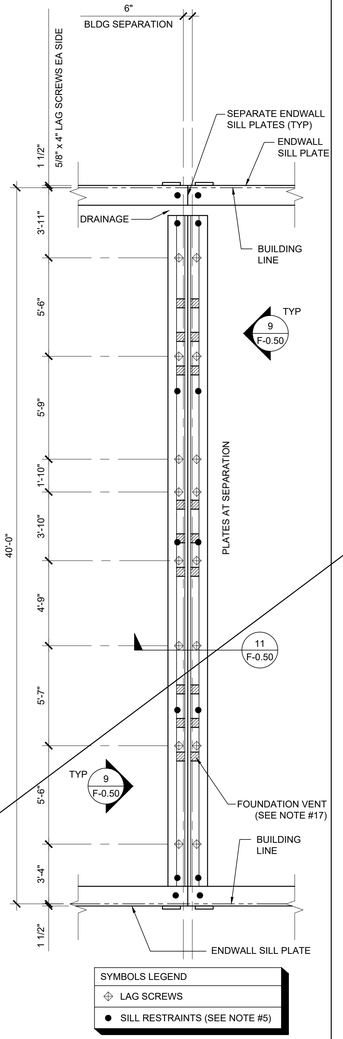
| BUILDING SIZE | BUILDING AREA | REQUIRED VENTING | SIDEWALL VENTING | ENDWALL VENTING | TOTAL VENTING SUPPLIED |
|---|---|---|---|---|---|
| 48' x 40' | 1920 SF | 12.8 SF (1/150) | 2.75' x 6" = (6) 1.375 SF/ EA (8.25 SF TOTAL) | 2.75' x 6" = (4) 1.375 SF/ EA (5.5 SF TOTAL) | 13.75 SF SEE NOTE #8 |

# TIE PLATE SCHEDULE

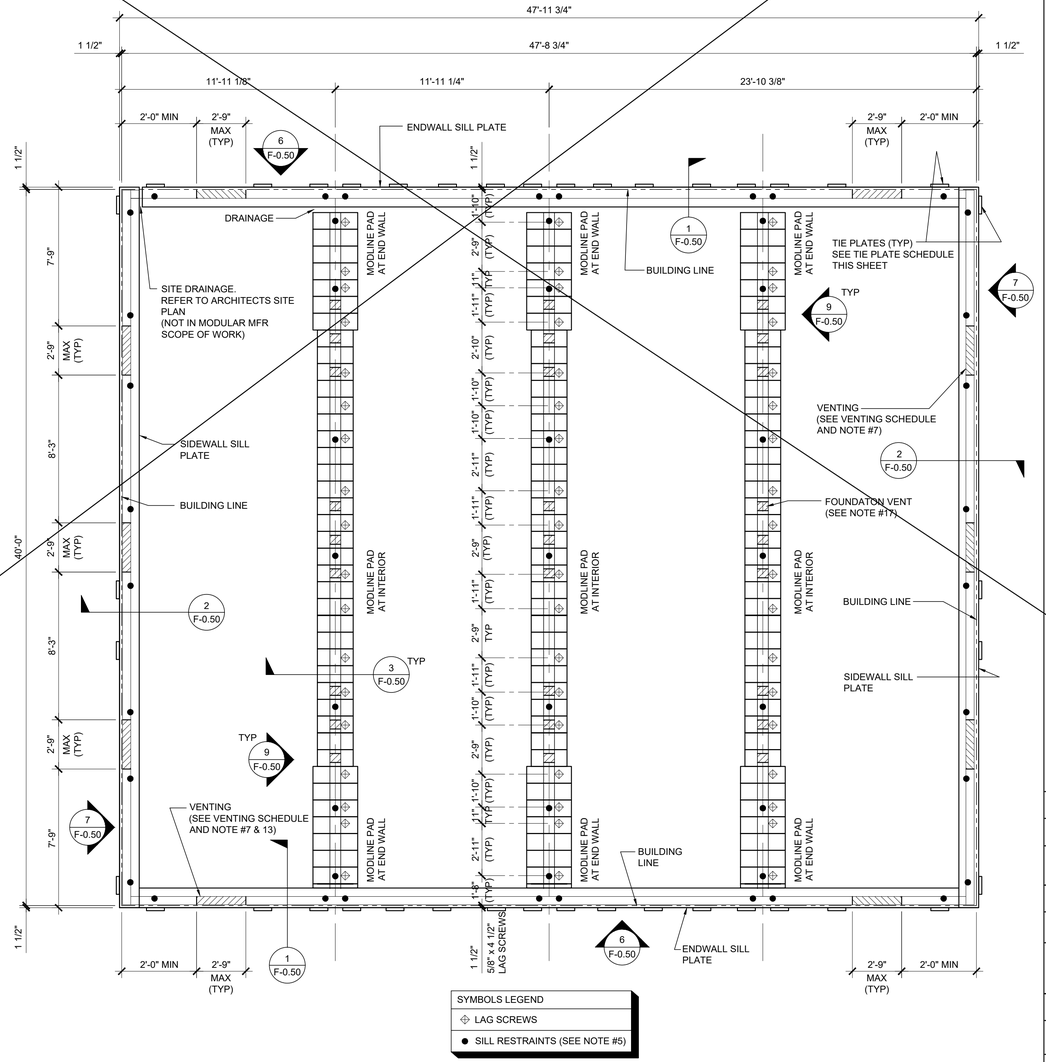
| BUILDING SIZE | SIDE WALL TIE PLATES | END WALL TIE PLATES | TOTAL NUMBER OF TIE PLATES |
|---|---|---|---|
| 48' x 40' | 4 | 16 | 40 |




FOOTING AT SEP SCALE: 1/4" = 1' - 0" 3




FOOTING AT SEP SCALE: 1/4" = 1' - 0" 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
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APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL


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PROJECT NAME:

SHEET TITLE:

# WOOD FOUNDATION PLAN
## 48x40
## (150 PSF)

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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APP. 04-121999 INC:
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PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

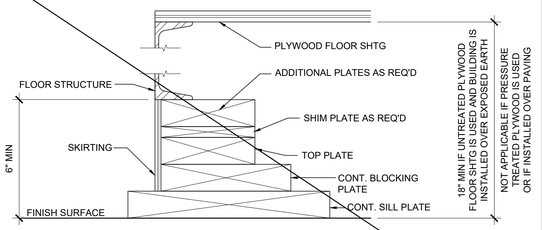
REGISTERED PROFESSIONAL ENGINEER JOHN 'W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

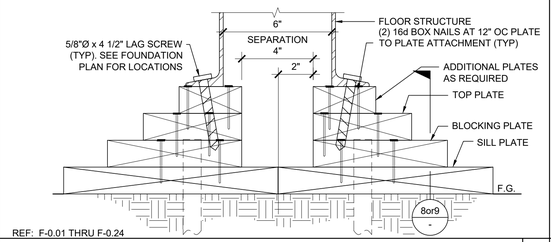
P.C. SHEET NUMBER

F-0.24



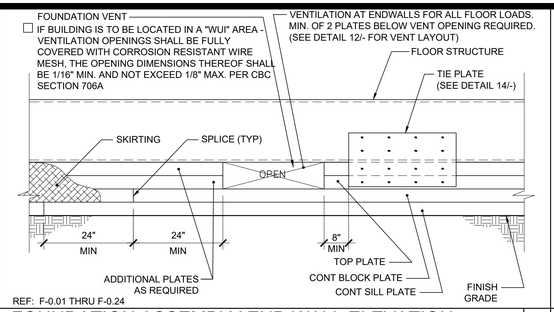

NOTE:
SEE SCHEDULE ON SHEET S-1.01 TO DETERMINE IF PRESSURE TREATED PLYWOOD FLOOR SHTG IS BEING PROVIDED

## CLEARANCE TO PLYWOOD SHTG
SCALE : 3" = 1'-0" | 16



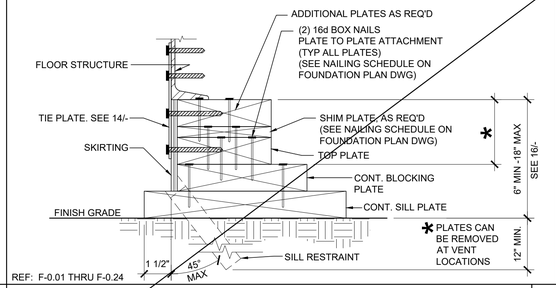

REF: F-0.01 THRU F-0.24

## FOUNDATION AT ADJACENT BUILDING
SCALE : 3"=1'-0" | 11



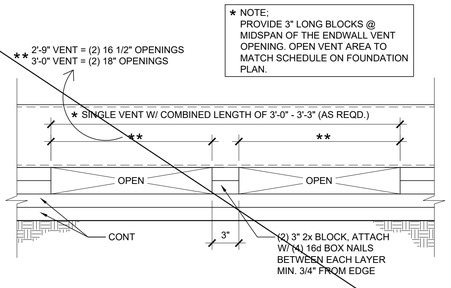

REF: F-0.01 THRU F-0.24

## FOUNDATION ASSEMBLY END WALL ELEVATION
SCALE : 1 1/2"=1'-0" | 6

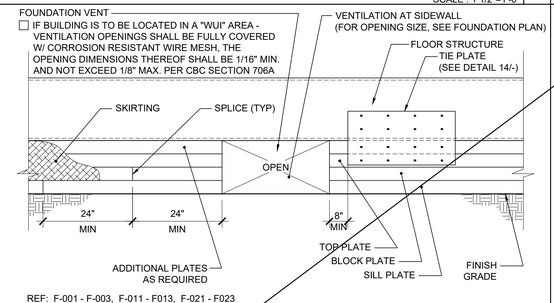



REF: F-0.01 THRU F-0.24

## FOUNDATION AT END WALL
SCALE : 3"=1'-0" | 1

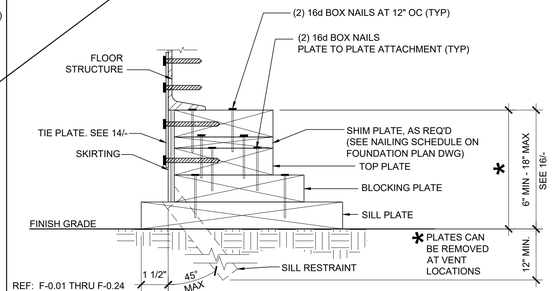



## END WALL VENT
SCALE : 1 1/2"=1'-0" | 12




REF: F-001 - F-003, F-011 - F013, F-021 - F023

## FOUNDATION ASSEMBLY SIDEWALL ELEVATION
SCALE : 1 1/2"=1'-0" | 7




REF: F-0.01 THRU F-0.24

## FOUNDATION AT SIDE WALL
SCALE : 3"=1'-0" | 2




REF: F-0.01 THRU F-0.24

## TIE PLATE
SCALE : 3"=1'-0" | 14



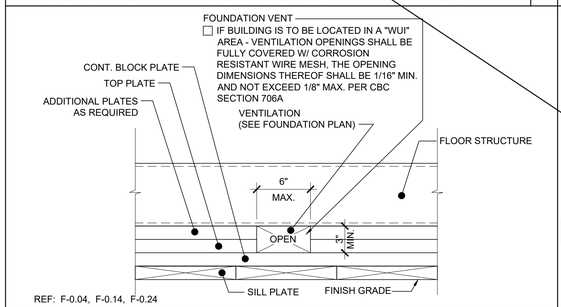

REF: F-001 - F-003, F-011 - F013, F-021 - F023

## FOUNDATION AT MODLINE & SEPARATION
SCALE : 1 1/2"=1'-0" | 8



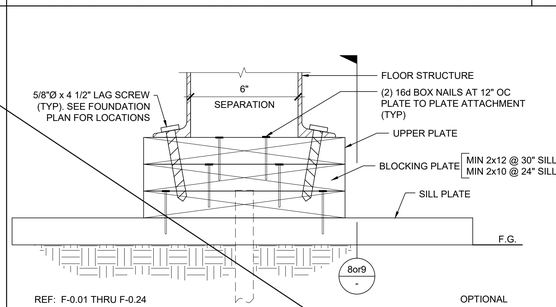

REF: F-0.01 THRU F-0.24

## FOUNDATION AT MODLINE
SCALE : 3"=1'-0" | 3



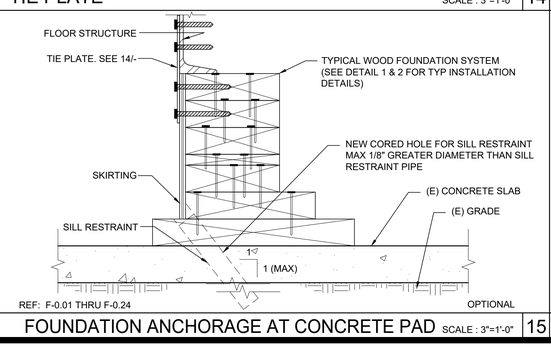

REF: F-0.04, F-0.14, F-0.24

## VENT ELEV. AT MODLINE & SEP FOR 150 PSF
SCALE : 3"=1'-0" | 9



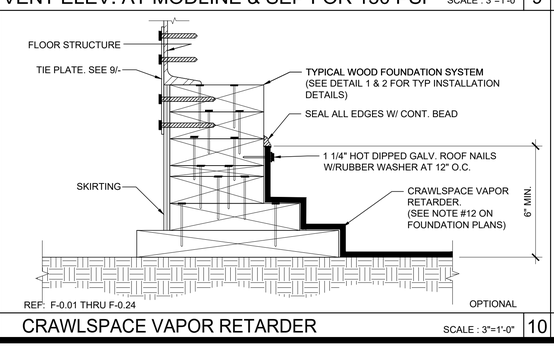

REF: F-0.01 THRU F-0.24 — OPTIONAL

## FOUNDATION AT ADJACENT BUILDING
SCALE : 3"=1'-0" | 4



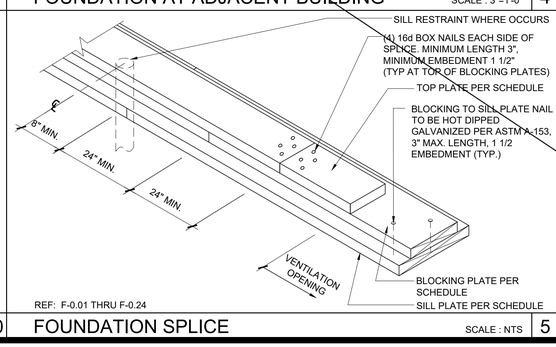

REF: F-0.01 THRU F-0.24 — OPTIONAL

## FOUNDATION ANCHORAGE AT CONCRETE PAD
SCALE : 3"=1'-0" | 15




REF: F-0.01 THRU F-0.24 — OPTIONAL

## CRAWLSPACE VAPOR RETARDER
SCALE : 3"=1'-0" | 10




REF: F-0.01 THRU F-0.24

## FOUNDATION SPLICE
SCALE : NTS | 5

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PROJECT NAME:

SHEET TITLE:

# FOUNDATION DETAILS
## WOOD

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-0.50

ANCHORAGE NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION. (TWO PER MODULE ALONG EACH END WALL)
   - THREE (3) ANCHOR PLATES ALONG EACH SIDE WALL
2. SIDE WALL PLATES SHALL BE PLACED IN THE CORNER (AS NOTED ABOVE) WITH A 3RD PLATE AS CLOSE THE MIDSPAN AS IS POSSIBLE (PLATE LOCATION MAY BE ADJUSTED TO AVOID VENT/ACCESS OPENINGS.
3. ANCHOR PLATES WITHIN 21" OF AN OPENING SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51.

## NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):

   THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS, SEE DETAIL 11/F-2.51.
4. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH A CORROSION-RESISTANT WIRE MESH, WITH THE LEAST DIMENSION NOT EXCEEDING 1/8".
5. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
6. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION, THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
7. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE-SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.
8. A COLD JOINT MAY BE PROVIDED BETWEEN THE FOOTING AND THE VERTICAL FOUNDATION WALL. THE JOINT SHALL BE KEYED (2 1/2" WIDE (MIN) x 1 1/2" DEEP) AND ALL VERTICAL REINFORCING THAT CROSSES THE JOINT SHALL BE PLACED PRIOR TO THE PLACEMENT OF CONCRETE.

## VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

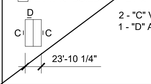
VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

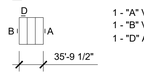
## VENTING CALCULATION:

☐ 24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D



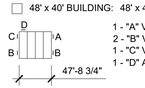

2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)

☐ 36' x 40' BUILDING: 36' x 40' = 1440 SF / 150 = 9.6 SF VENT. REQ'D



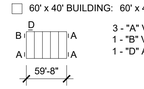

1 - "A" VENT = 3.26 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
9.94 SF TOTAL VENTILATION (> 9.6 SF)

☐ 48' x 40' BUILDING: 48' x 40' = 1920 SF / 150 = 12.8 SF VENT. REQ'D



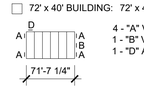

1 - "A" VENT = 3.26 SF
2 - "B" VENT = 4.86 SF
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
13.96 SF TOTAL VENTILATION (> 12.8 SF)

☐ 60' x 40' BUILDING: 60' x 40' = 2400 SF / 150 = 16 SF VENT. REQ'D



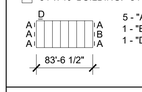

3 - "A" VENT = 9.78 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
16.46 SF TOTAL VENTILATION (> 16 SF)

☐ 72' x 40' BUILDING: 72' x 40' = 2880 SF / 150 = 19.2 SF VENT. REQ'D



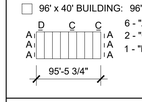

4 - "A" VENT = 13.04 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
19.72 SF TOTAL VENTILATION (> 19.2 SF)

☐ 84' x 40' BUILDING: 84' x 40' = 3360 SF / 150 = 22.4 SF VENT. REQ'D



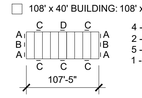

5 - "A" VENT = 16.30 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
22.98 SF TOTAL VENTILATION (> 22.4 SF)

☐ 96' x 40' BUILDING: 96' x 40' = 3840 SF / 150 = 25.6 SF VENT. REQ'D



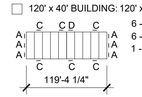

6 - "A" VENT = 19.56 SF
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
26.99 SF TOTAL VENTILATION (> 25.6 SF)

☐ 108' x 40' BUILDING: 108' x 40' = 4320 SF / 150 = 28.8 SF VENT. REQ'D




4 - "A" VENT = 13.04 SF
2 - "B" VENT = 4.86 SF
5 - "C" VENT = 7.95 SF
1 - "D" ACCESS VENT = 4.25 SF
30.10 SF TOTAL VENTILATION (> 28.8 SF)

☐ 120' x 40' BUILDING: 120' x 40' = 4800 SF / 150 = 32 SF VENT. REQ'D

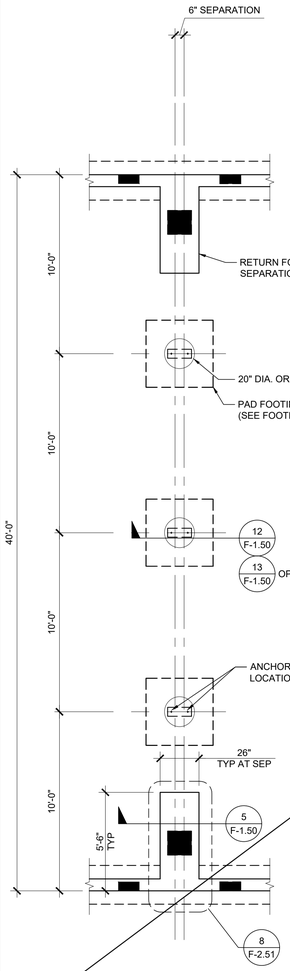



6 - "A" VENT = 19.56 SF
6 - "C" VENT = 9.54 SF
1 - "D" ACCESS VENT = 4.25 SF
33.35 SF TOTAL VENTILATION (> 32 SF)

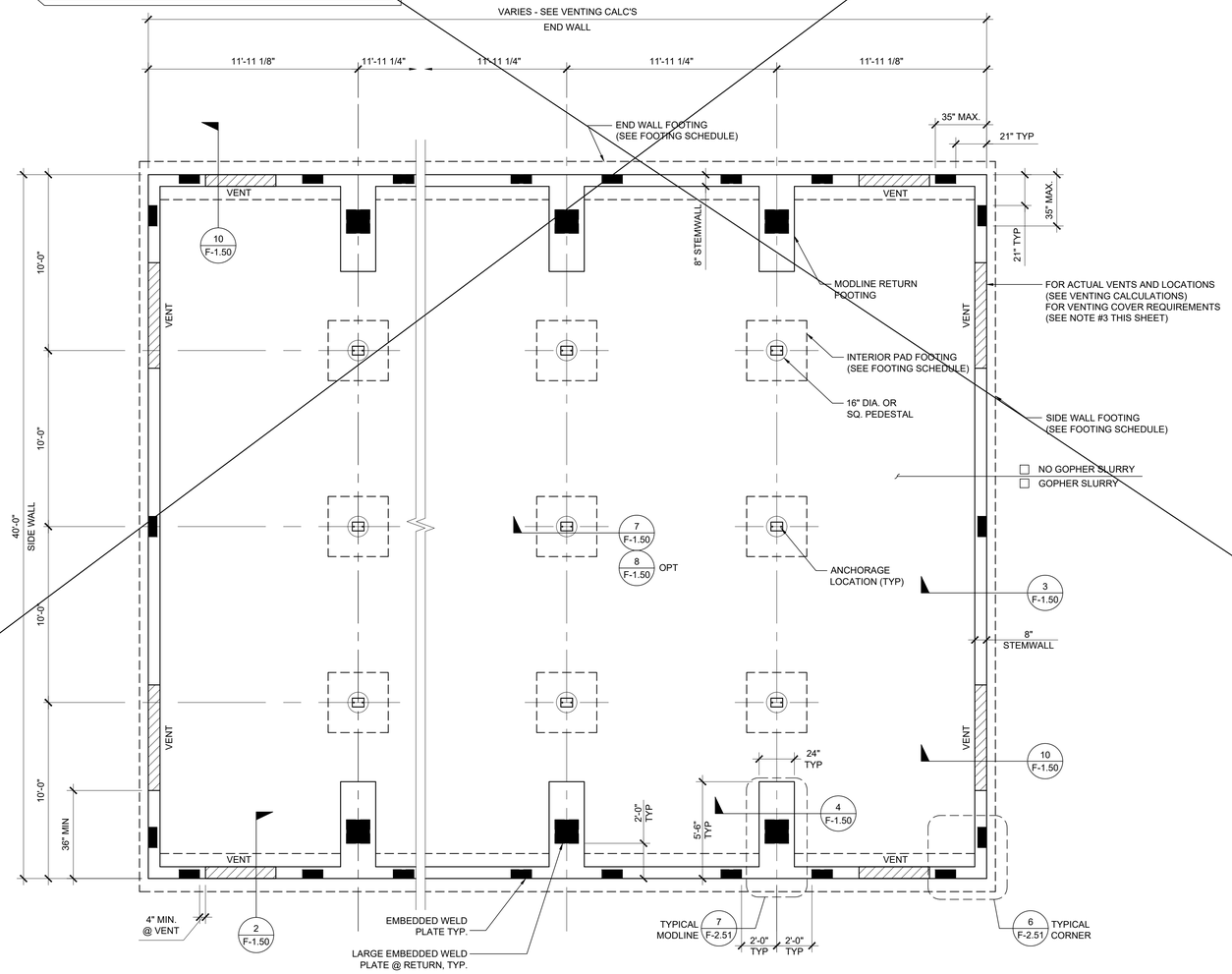
## FOOTING SCHEDULE

| DESIGN FLOOR LIVE LOAD | SIDEWALL FOOTING | ENDWALL FOOTING | INTERIOR PAD FOOTING | PAD FOOTING AT SEPARATION |
|---|---|---|---|---|
| ☐ 50 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-0" SQ (3) #5 EW | 3'-10" SQ (4) #5 EW |
| ☐ 50 + 15 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-0" SQ (3) #5 EW | 3'-10" SQ (4) #5 EW |
| ☐ 100 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-4" SQ (3) #5 EW | 4'-2" SQ (4) #5 EW |
| ☐ 150 PSF | 14" WIDE (2) #5 CONT T&B | 20" WIDE (3) #5 CONT T&B | 4'-0" SQ (4) #5 EW | 4'-8" SQ (4) #5 EW |

SYMBOLS LEGEND
- L-6x4x3/8x14 EMBED PLATE PER 9/F-2.51
- 6x8x3/8 EMBED PLATE PER 7/F-1.50
- 16x16x3/8 EMBED PLATE PER 14/F-2.51




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

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DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION PLAN
## ABOVE GRADE WOOD FLOOR

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL




SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-1.01

ANCHORAGE NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION. (TWO PER MODULE ALONG EACH END WALL)
   - THREE (3) ANCHOR PLATES ALONG EACH SIDE WALL
2. SIDE WALL PLATES SHALL BE PLACED IN THE CORNER (AS NOTED ABOVE) WITH A 3RD PLATE AS CLOSE THE MIDSPAN AS IS POSSIBLE (PLATE LOCATION MAY BE ADJUSTED TO AVOID VENT/ACCESS OPENINGS.
3. ANCHOR PLATES WITHIN 21" OF AN OPENING SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51.

## NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):

   THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS, SEE DETAIL 11/F-2.51.
4. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH A CORROSION-RESISTANT WIRE MESH, WITH THE LEAST DIMENSION NOT EXCEEDING 1/8".
5. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
6. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION, THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
7. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE-SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.
8. A COLD JOINT MAY BE PROVIDED BETWEEN THE FOOTING AND THE VERTICAL FOUNDATION WALL. THE JOINT SHALL BE KEYED (2 1/2" WIDE (MIN) x 1 1/2" DEEP) AND ALL VERTICAL REINFORCING THAT CROSSES THE JOINT SHALL BE PLACED PRIOR TO THE PLACEMENT OF CONCRETE.

## VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

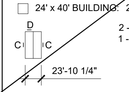
VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

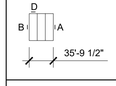
## VENTING CALCULATION:

☐ 24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D



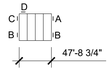

2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)

☐ 36' x 40' BUILDING: 36' x 40' = 1440 SF / 150 = 9.6 SF VENT. REQ'D



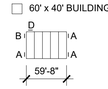

1 - "A" VENT = 3.26 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
9.94 SF TOTAL VENTILATION (> 9.6 SF)

☐ 48' x 40' BUILDING: 48' x 40' = 1920 SF / 150 = 12.8 SF VENT. REQ'D



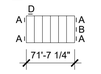

1 - "A" VENT = 3.26 SF
2 - "B" VENT = 4.86 SF
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
13.96 SF TOTAL VENTILATION (> 12.8 SF)

☐ 60' x 40' BUILDING: 60' x 40' = 2400 SF / 150 = 16 SF VENT. REQ'D



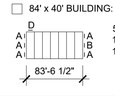

3 - "A" VENT = 9.78 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
16.46 SF TOTAL VENTILATION (> 16 SF)

☐ 72' x 40' BUILDING: 72' x 40' = 2880 SF / 150 = 19.2 SF VENT. REQ'D



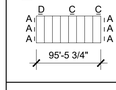

4 - "A" VENT = 13.04 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
19.72 SF TOTAL VENTILATION (> 19.2 SF)

☐ 84' x 40' BUILDING: 84' x 40' = 3360 SF / 150 = 22.4 SF VENT. REQ'D



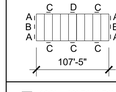

5 - "A" VENT = 16.30 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
22.98 SF TOTAL VENTILATION (> 22.4 SF)

☐ 96' x 40' BUILDING: 96' x 40' = 3840 SF / 150 = 25.6 SF VENT. REQ'D



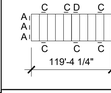

6 - "A" VENT = 19.56 SF
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
26.99 SF TOTAL VENTILATION (> 25.6 SF)

☐ 108' x 40' BUILDING: 108' x 40' = 4320 SF / 150 = 28.8 SF VENT. REQ'D




4 - "A" VENT = 13.04 SF
2 - "B" VENT = 4.86 SF
5 - "C" VENT = 7.95 SF
1 - "D" ACCESS VENT = 4.25 SF
30.10 SF TOTAL VENTILATION (> 28.8 SF)

☐ 120' x 40' BUILDING: 120' x 40' = 4800 SF / 150 = 32 SF VENT. REQ'D



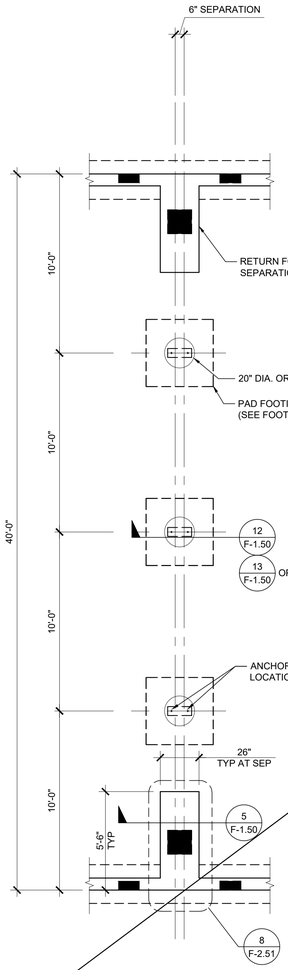

6 - "A" VENT = 19.56 SF
6 - "C" VENT = 9.54 SF
1 - "D" ACCESS VENT = 4.25 SF
33.35 SF TOTAL VENTILATION (> 32 SF)

## FOOTING SCHEDULE

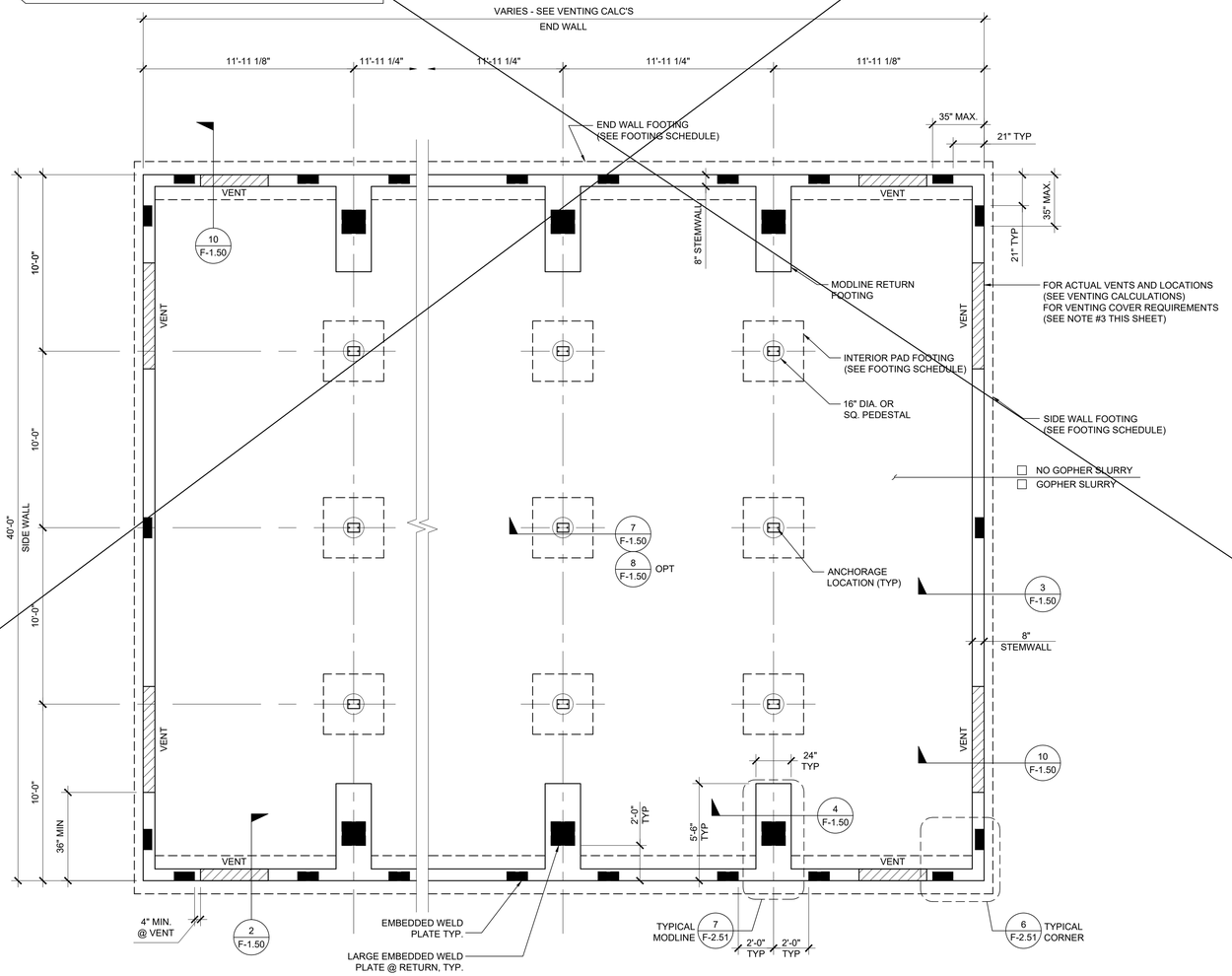
| DESIGN FLOOR LIVE LOAD | SIDEWALL FOOTING | ENDWALL FOOTING | INTERIOR PAD FOOTING | PAD FOOTING AT SEPARATION |
|---|---|---|---|---|
| ☐ 50 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-2" SQ (3) #5 EW | 4'-0" SQ (4) #5 EW |
| ☐ 50 + 15 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-2" SQ (3) #5 EW | 4'-0" SQ (4) #5 EW |
| ☐ 100 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-6" SQ (3) #5 EW | 4'-5" SQ (4) #5 EW |
| ☐ 150 PSF | 16" WIDE (2) #5 CONT T&B | 20" WIDE (3) #5 CONT T&B | 4'-2" SQ (4) #5 EW | 5'-0" SQ (5) #5 EW |

SYMBOLS LEGEND

| | |
|---|---|
| ▬ | L-6x4x3/8x14 EMBED PLATE PER 9/F-2.51 |
| ▭ | 6x8x3/8 EMBED PLATE PER 7/F-1.50 |
| ■ | 16x16x3/8 EMBED PLATE PER 14/F-2.51 |




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION PLAN
## ABOVE GRADE CONCRETE FLOOR

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

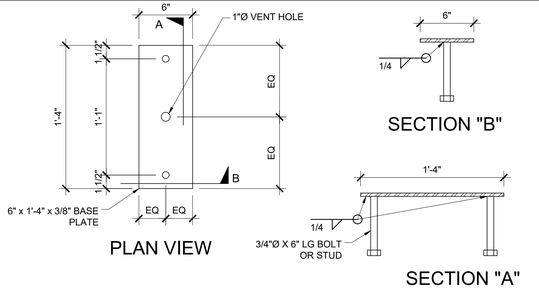
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
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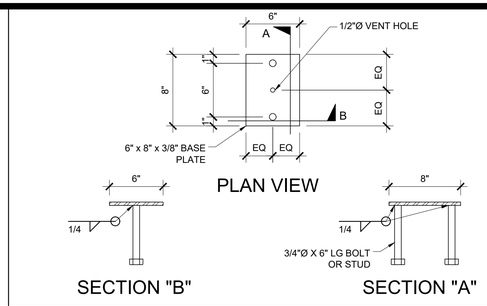
F-1.11

## NOT USED 16

## PIER PLATE (AT SEPARATION) SCALE : 1 1/2" = 1'-0" 11

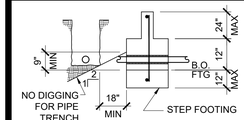



## PIER PLATE SCALE : 1 1/2" = 1'-0" 6

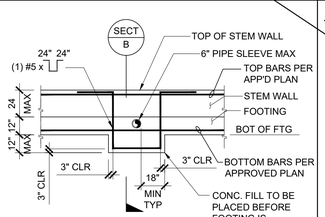



## NOT USED 1

## SECTION B



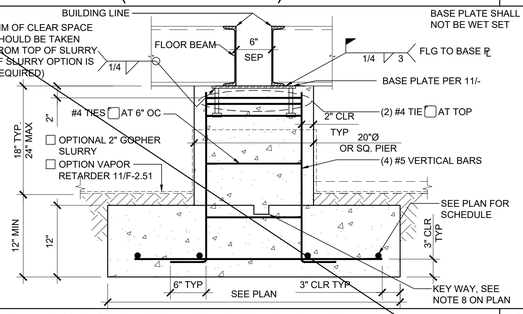

## SECTION A



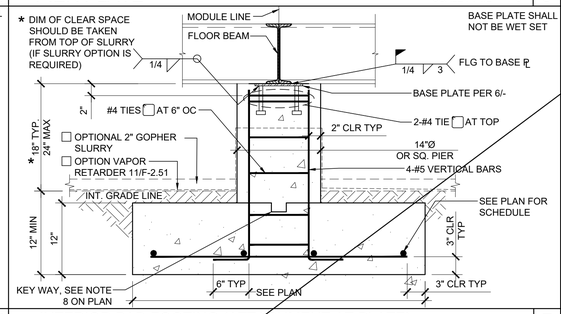

NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

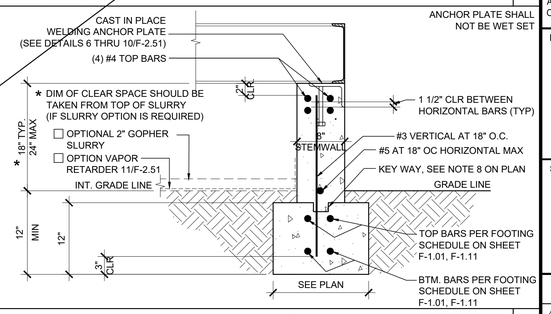
## INTERIOR PAD FOOTING (AT SEPARATION) SCALE : 1" =1'-0" 12




## INTERIOR PAD FOOTING (ATTACHMENT AT PLATE) SCALE : 1" =1'-0" 7




## END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2



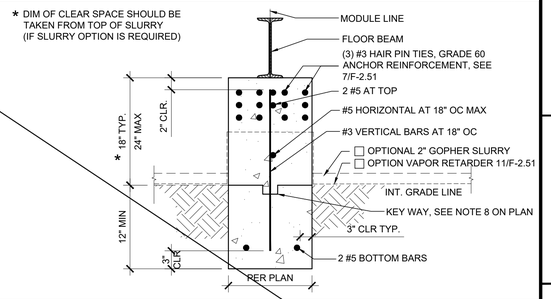

## PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17




## INTERIOR PAD FOOTING SCALE : 1" =1'-0" 12

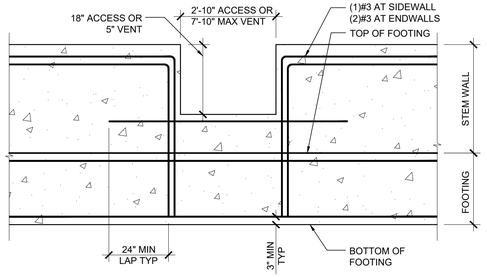
## NOT USED 8

## SIDE WALL FOOTING SCALE : 1" = 1'-0" 3

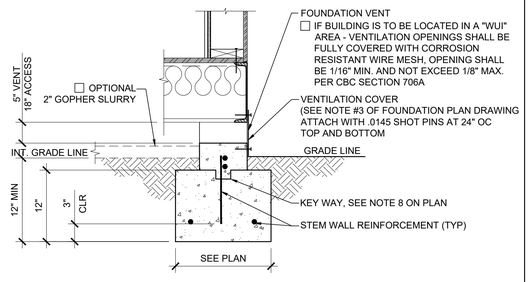



## TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18

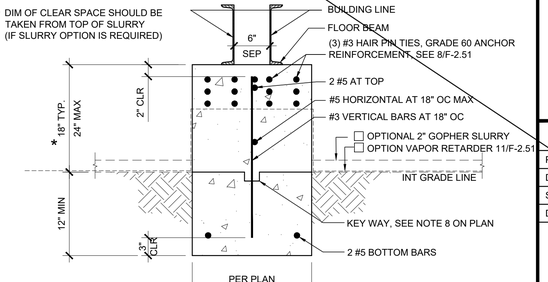
## VENT OPENING SCALE : 1" = 1'-0" 15



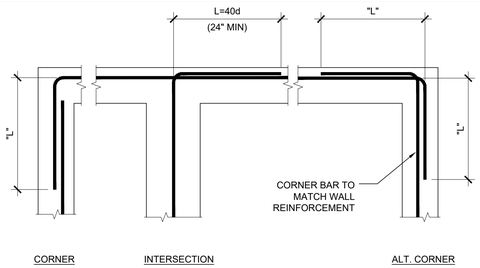

## VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10



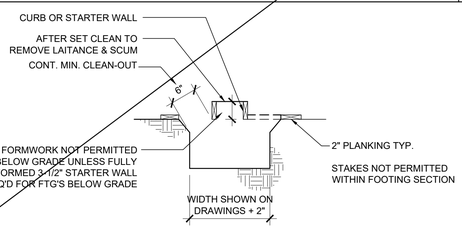

## INTERIOR RETURN FOOTING AT SEPARATION SCALE : 1" = 1'-0" 5




## TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19




## MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14




"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

## NOT USED 9

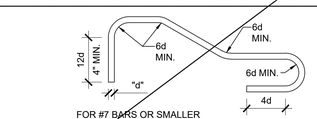
## TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20

| STANDARD HOOKS FOR PRIMARY REINFORCEMENT | |
|---|---|
| BAR SIZE, No. | MINIMUM FINISHED BEND DIAMETER[a] |
| 3 THROUGH 8 | $6d_b$ |
| 9 THROUGH 11 | $8d_b$ |
| 14 AND 18 | $10d_b$ |

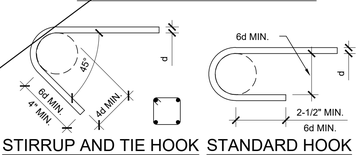
(a) MEASURED ON INSIDE OF BAR

| STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT | |
|---|---|
| BAR SIZE, No. | MINIMUM FINISHED BEND DIAMETER[b] |
| 3 THROUGH 5 | $4d_b$ |
| 6 THROUGH 8 | $6d_b$ |

(b) MEASURED ON INSIDE OF BAR




TYP. REINF. BENDING DETAIL




STIRRUP AND TIE HOOK STANDARD HOOK

## NOT USED 4

## TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20

## VENT OPENING SCALE : 1" = 1'-0" 15

## VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10

## INTERIOR RETURN FOOTING AT SEPARATION SCALE : 1" = 1'-0" 5

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SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION DETAILS
## ABOVE GRADE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER
F-1.50

ANCHORAGE NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION. (TWO PER MODULE ALONG EACH END WALL)
   - THREE (3) ANCHOR PLATES ALONG EACH SIDE WALL
2. SIDE WALL PLATES SHALL BE PLACED IN THE CORNER (AS NOTED ABOVE) WITH A 3RD PLATE AS CLOSE THE MIDSPAN AS IS POSSIBLE (PLATE LOCATION MAY BE ADJUSTED TO AVOID VENT/ACCESS OPENINGS.
3. ANCHOR PLATES WITHIN 21" OF AN OPENING SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51.

## NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (WHERE OCCURS):

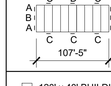
   THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS, SEE DETAIL 11/F-2.51.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
6. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.
7. A COLD JOINT MAY BE PROVIDED BETWEEN THE FOOTING AND THE VERTICAL FOUNDATION WALL. THE JOINT SHALL BE KEYED (2 1/2" WIDE (MIN) x 1 1/2" DEEP) AND ALL VERTICAL REINFORCING THAT CROSSES THE JOINT SHALL BE PLACED PRIOR TO THE PLACEMENT OF CONCRETE.

## VENTING SCHEDULE

VENT "A": (8'-0" x 8" METAL SCREEN COVER) 7'-10" x 5" = 3.26 S.F. VENTILATION
VENT "B": (6'-0" x 8" METAL SCREEN COVER) 5'-10" x 5" = 2.43 S.F. VENTILATION
VENT "C": (4'-0" x 8" METAL SCREEN COVER) 3'-10" x 5" = 1.59 S.F. VENTILATION
ACCESS/VENT "D": (3'-0" x 2'-0" METAL SCREEN COVER) 2'-10" x 18" = 4.25 S.F. VENTILATION

## VENTING CALCULATION:

☐ 24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D



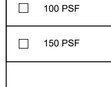

2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)

☐ 36' x 40' BUILDING: 36' x 40' = 1440 SF / 150 = 9.6 SF VENT. REQ'D




1 - "A" VENT = 3.26 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
9.94 SF TOTAL VENTILATION (> 9.6 SF)

☐ 48' x 40' BUILDING: 48' x 40' = 1920 SF / 150 = 12.8 SF VENT. REQ'D




1 - "A" VENT = 3.26 SF
2 - "B" VENT = 4.86 SF
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
13.96 SF TOTAL VENTILATION (> 12.8 SF)

☐ 60' x 40' BUILDING: 60' x 40' = 2400 SF / 150 = 16 SF VENT. REQ'D




3 - "A" VENT = 9.78 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
16.46 SF TOTAL VENTILATION (> 16 SF)

☐ 72' x 40' BUILDING: 72' x 40' = 2880 SF / 150 = 19.2 SF VENT. REQ'D




4 - "A" VENT = 13.04 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
19.72 SF TOTAL VENTILATION (> 19.2 SF)

☐ 84' x 40' BUILDING: 84' x 40' = 3360 SF / 150 = 22.4 SF VENT. REQ'D




5 - "A" VENT = 16.30 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
22.98 SF TOTAL VENTILATION (> 22.4 SF)

☐ 96' x 40' BUILDING: 96' x 40' = 3840 SF / 150 = 25.6 SF VENT. REQ'D




6 - "A" VENT = 19.56 SF
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
26.99 SF TOTAL VENTILATION (> 25.6 SF)

☐ 108' x 40' BUILDING: 108' x 40' = 4320 SF / 150 = 28.8 SF VENT. REQ'D




4 - "A" VENT = 13.04 SF
2 - "B" VENT = 4.86 SF
5 - "C" VENT = 7.95 SF
1 - "D" ACCESS VENT = 4.25 SF
30.10 SF TOTAL VENTILATION (> 28.8 SF)

☐ 120' x 40' BUILDING: 120' x 40' = 4800 SF / 150 = 32 SF VENT. REQ'D

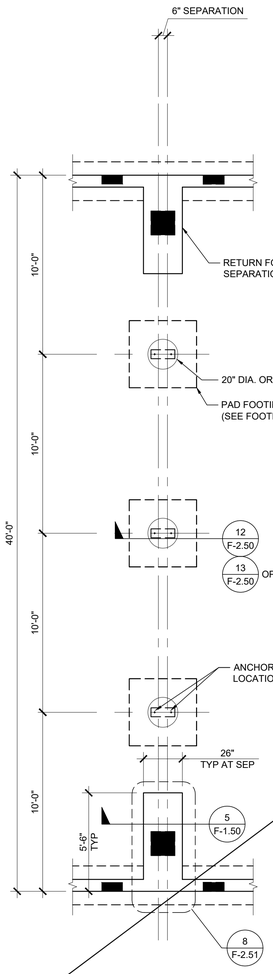



6 - "A" VENT = 19.56 SF
6 - "C" VENT = 9.54 SF
1 - "D" ACCESS VENT = 4.25 SF
33.35 SF TOTAL VENTILATION (> 32 SF)

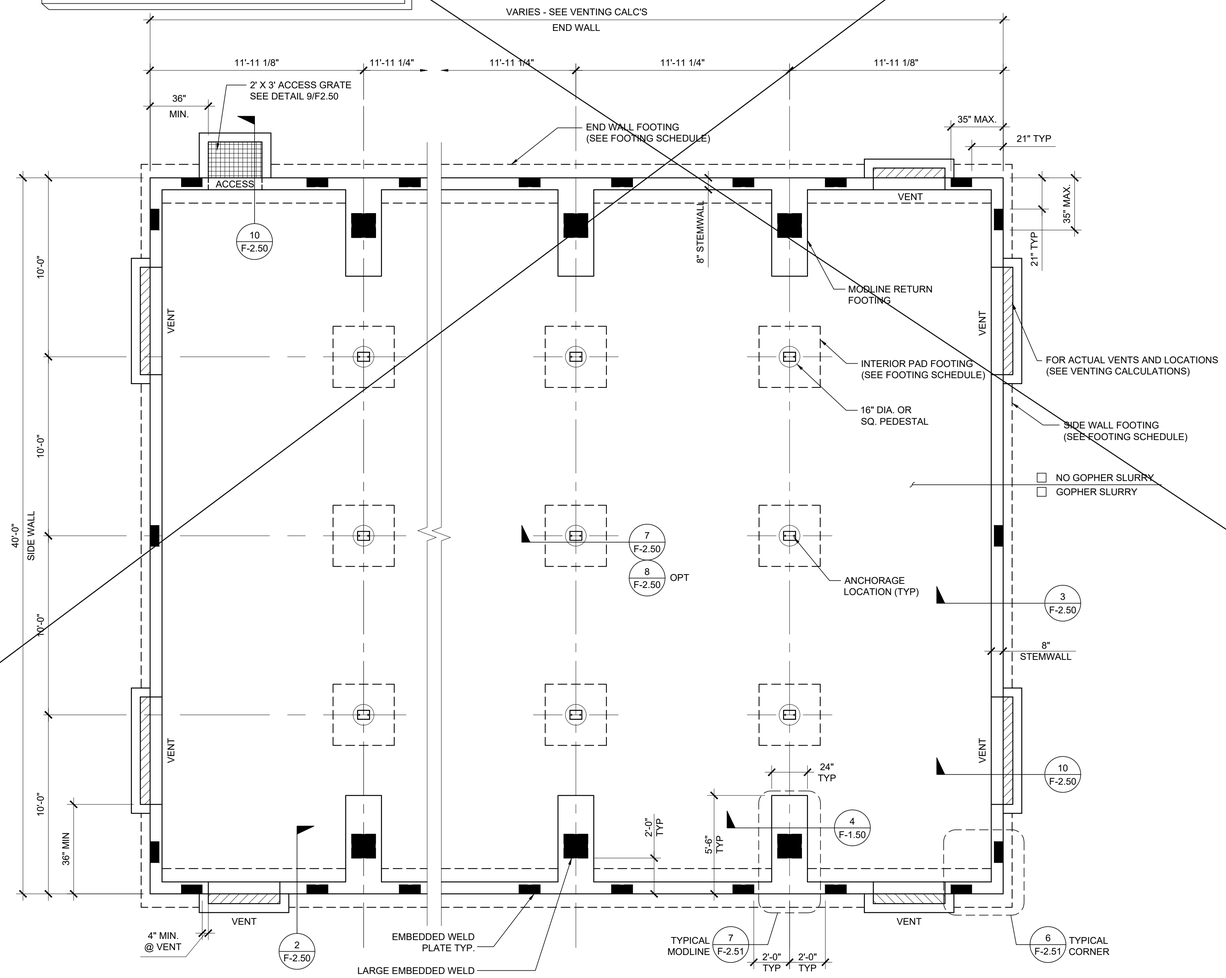
## FOOTING SCHEDULE

| DESIGN FLOOR LIVE LOAD | SIDEWALL FOOTING | ENDWALL FOOTING | INTERIOR PAD FOOTING | PAD FOOTING AT SEPARATION |
|---|---|---|---|---|
| ☐ 50 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-0" SQ (3) #5 EW | 3'-10" SQ (4) #5 EW |
| ☐ 50 + 15 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-0" SQ (2) #5 EW | 3'-10" SQ (4) #5 EW |
| ☐ 100 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-4" SQ (3) #5 EW | 4'-2" SQ (4) #5 EW |
| ☐ 150 PSF | 14" WIDE (2) #5 CONT T&B | 20" WIDE (3) #5 CONT T&B | 4'-0" SQ (4) #5 EW | 4'-8" SQ (4) #5 EW |

SYMBOLS LEGEND
- L-6x4x3/8x14 EMBED PLATE PER 9/F-2.51
- 6x8x3/8 EMBED PLATE PER 7/F-2.50
- 16x16x3/8 EMBED PLATE PER 14/F-2.51




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION PLAN
## BELOW GRADE WOOD FLOOR

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

F-2.01

ANCHORAGE NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION. (TWO PER MODULE ALONG EACH END WALL)
   - THREE (3) ANCHOR PLATES ALONG EACH SIDE WALL
2. SIDE WALL PLATES SHALL BE PLACED IN THE CORNER (AS NOTED ABOVE) WITH A 3RD PLATE AS CLOSE THE MIDSPAN AS IS POSSIBLE (PLATE LOCATION MAY BE ADJUSTED TO AVOID VENT/ACCESS OPENINGS.
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## NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
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   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (WHERE OCCURS):

   THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
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   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
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4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
6. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.
7. A COLD JOINT MAY BE PROVIDED BETWEEN THE FOOTING AND THE VERTICAL FOUNDATION WALL. THE JOINT SHALL BE KEYED (2 1/2" WIDE (MIN) x 1 1/2" DEEP) AND ALL VERTICAL REINFORCING THAT CROSSES THE JOINT SHALL BE PLACED PRIOR TO THE PLACEMENT OF CONCRETE.

## VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

## VENTING CALCULATION:

☐ 24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D

D / C C / 23'-10 1/4"

2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)

☐ 36' x 40' BUILDING: 36' x 40' = 1440 SF / 150 = 9.6 SF VENT. REQ'D

D / B A / 35'-9 1/2"

1 - "A" VENT = 3.26 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
9.94 SF TOTAL VENTILATION (> 9.6 SF)

☐ 48' x 40' BUILDING: 48' x 40' = 1920 SF / 150 = 12.8 SF VENT. REQ'D

D / C A / B B / 47'-8 3/4"

1 - "A" VENT = 3.26 SF
2 - "B" VENT = 4.86 SF
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
13.96 SF TOTAL VENTILATION (> 12.8 SF)

☐ 60' x 40' BUILDING: 60' x 40' = 2400 SF / 150 = 16 SF VENT. REQ'D

D / B A / A A / 59'-8"

3 - "A" VENT = 9.78 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
16.46 SF TOTAL VENTILATION (> 16 SF)

☐ 72' x 40' BUILDING: 72' x 40' = 2880 SF / 150 = 19.2 SF VENT. REQ'D

D / A A B A / A A / 71'-7 1/4"

4 - "A" VENT = 13.04 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
19.72 SF TOTAL VENTILATION (> 19.2 SF)

☐ 84' x 40' BUILDING: 84' x 40' = 3360 SF / 150 = 22.4 SF VENT. REQ'D

D / A A B A / A A / 83'-6 1/2"

5 - "A" VENT = 16.30 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
22.98 SF TOTAL VENTILATION (> 22.4 SF)

☐ 96' x 40' BUILDING: 96' x 40' = 3840 SF / 150 = 25.6 SF VENT. REQ'D

D C C / A A A / A A A / 95'-5 3/4"

6 - "A" VENT = 19.56 SF
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
26.99 SF TOTAL VENTILATION (> 25.6 SF)

☐ 108' x 40' BUILDING: 108' x 40' = 4320 SF / 150 = 28.8 SF VENT. REQ'D

C D C / A A B A / A A / C C C / 107'-5"

4 - "A" VENT = 13.04 SF
2 - "B" VENT = 4.86 SF
5 - "C" VENT = 7.95 SF
1 - "D" ACCESS VENT = 4.25 SF
30.10 SF TOTAL VENTILATION (> 28.8 SF)

☐ 120' x 40' BUILDING: 120' x 40' = 4800 SF / 150 = 32 SF VENT. REQ'D

C C D C / A A A A / A A A A / C C C / 119'-4 1/4"

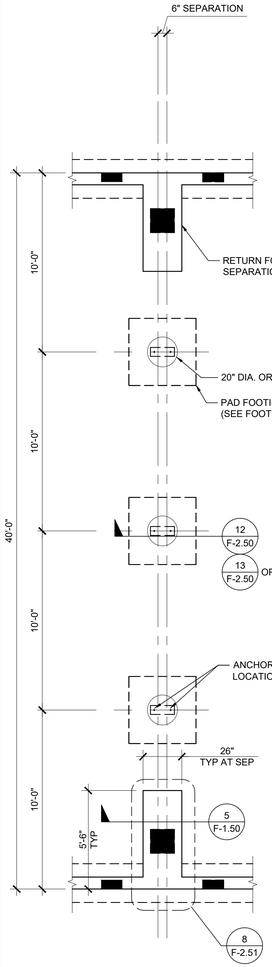
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33.35 SF TOTAL VENTILATION (> 32 SF)

## FOOTING SCHEDULE

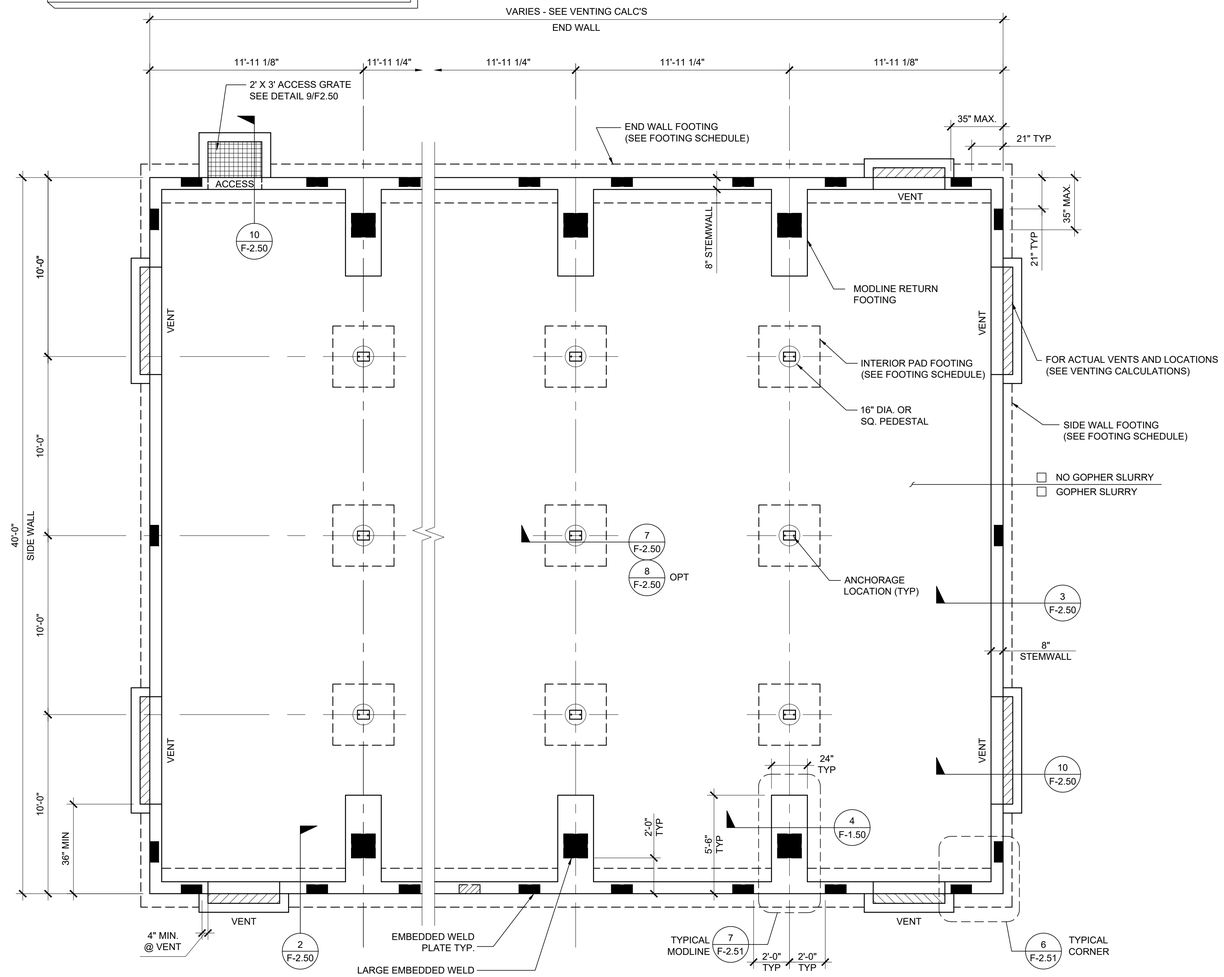
| DESIGN FLOOR LIVE LOAD | SIDEWALL FOOTING | ENDWALL FOOTING | INTERIOR PAD FOOTING | PAD FOOTING AT SEPARATION |
|---|---|---|---|---|
| ☐ 50 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-2" SQ (3) #5 EW | 4'-0" SQ (4) #5 EW |
| ☐ 50 + 15 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-2" SQ (3) #5 EW | 4'-0" SQ (4) #5 EW |
| ☐ 100 PSF | 12" WIDE (2) #5 CONT T&B | 18" WIDE (3) #5 CONT T&B | 3'-6" SQ (3) #5 EW | 4'-5" SQ (4) #5 EW |
| ☐ 150 PSF | 16" WIDE (2) #5 CONT T&B | 20" WIDE (3) #5 CONT T&B | 4'-2" SQ (4) #5 EW | 5'-0" SQ (5) #5 EW |

SYMBOLS LEGEND

- L-6x4x3/8x14 EMBED PLATE PER 9/F-2.51
- 6x8x3/8 EMBED PLATE PER 7/F-2.50
- 16x16x3/8 EMBED PLATE PER 14/F-2.51




FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2




FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION PLAN
## BELOW GRADE CONCRETE FLOOR

REVISIONS
02/27/2026 BID SET
1
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PRE-CHECK (PC) DOCUMENT
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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

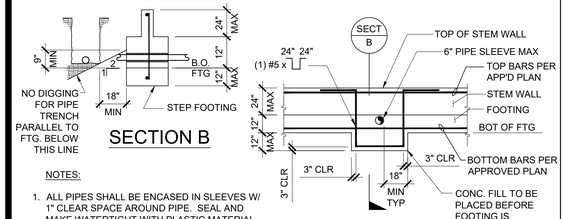
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
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SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
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## NOT USED

16

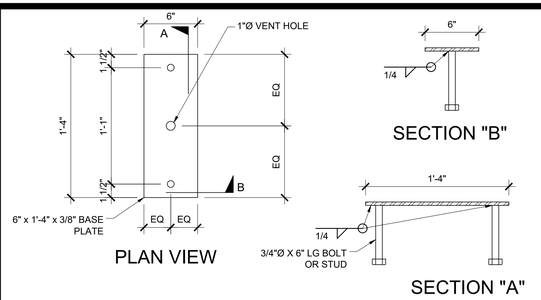



NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

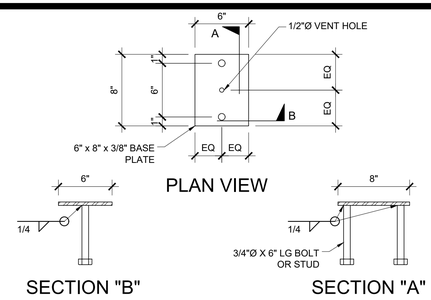
## PIER PLATE (AT SEPARATION)

SCALE : 1 1/2" = 1'-0" 11




## PIER PLATE

SCALE : 1 1/2" = 1'-0" 6




1

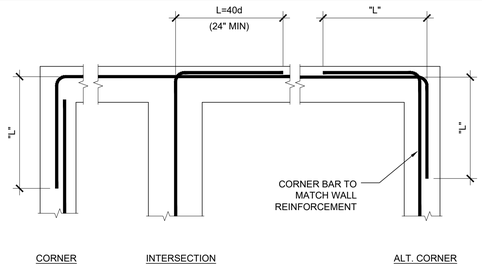
## PIPE SLEEVE THRU FOUNDATION FOOTING

SCALE : 1/4"=1'-0" 17




## TYPICAL STEPPED FOOTING

SCALE : 1/2"=1'-0" 18




## TYPICAL REINFORCING AT CORNER AND INTERSECTIONS

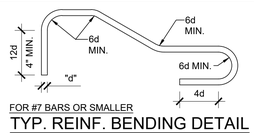
SCALE : 3/4"=1'-0" 19

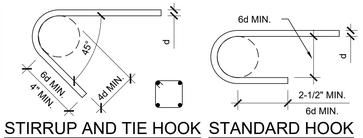
| STANDARD HOOKS FOR PRIMARY REINFORCEMENT | |
|---|---|
| BAR SIZE, No. | MINIMUM FINISHED BEND DIAMETER[a] |
| 3 THROUGH 8 | $6d_b$ |
| 9 THROUGH 11 | $8d_b$ |
| 14 AND 18 | $10d_b$ |

(a) MEASURED ON INSIDE OF BAR

| STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT | |
|---|---|
| BAR SIZE, No. | MINIMUM FINISHED BEND DIAMETER[b] |
| 3 THROUGH 5 | $4d_b$ |
| 6 THROUGH 8 | $6d_b$ |

(b) MEASURED ON INSIDE OF BAR



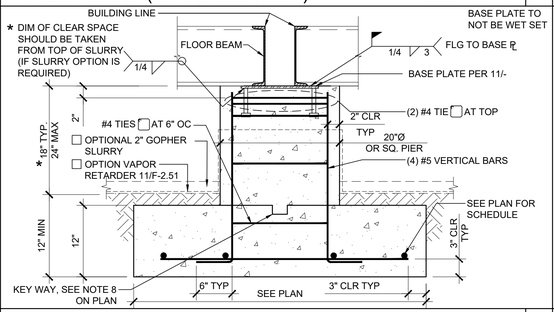




## TYPICAL REINFORCING BENDING DETAILS

SCALE : 1 1/2" = 1'-0" 20

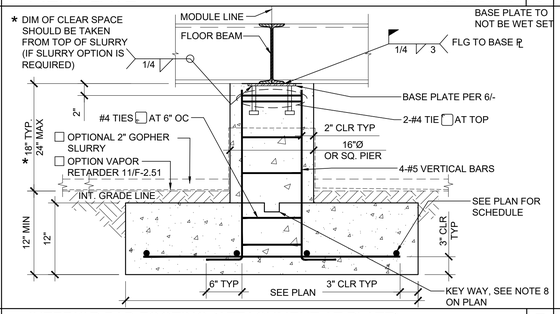
## INTERIOR PAD FOOTING (AT SEPARATION)

SCALE : 1" =1'-0" 12



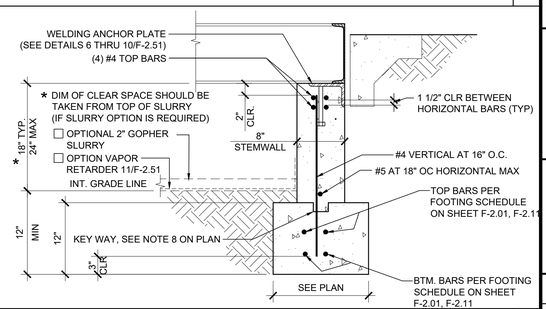

## INTERIOR PAD FOOTING (ATTACHMENT AT PLATE)

SCALE : 1" =1'-0" 7



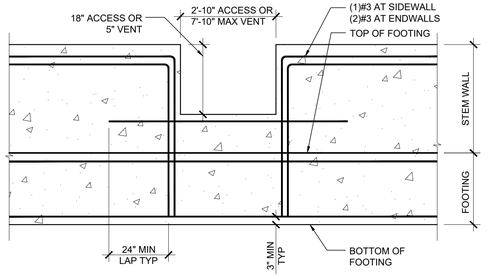

## END WALL FOOTING - WELDED

SCALE : 1" = 1'-0" 2



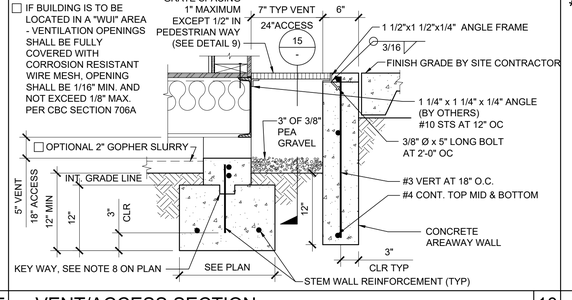

## VENT OPENING

SCALE : 1" = 1'-0" 15



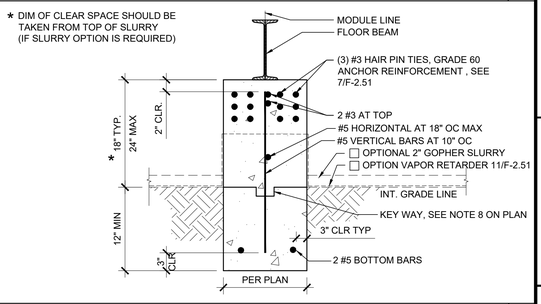

## VENT/ACCESS SECTION

SCALE : 1" = 1'-0" 10



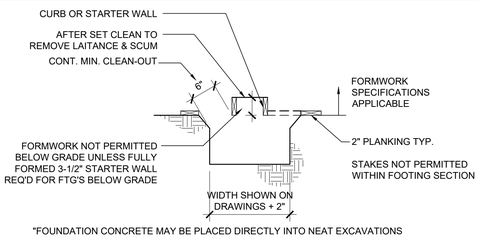

## SIDE WALL FOOTING

SCALE : 1" = 1'-0" 3




## MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

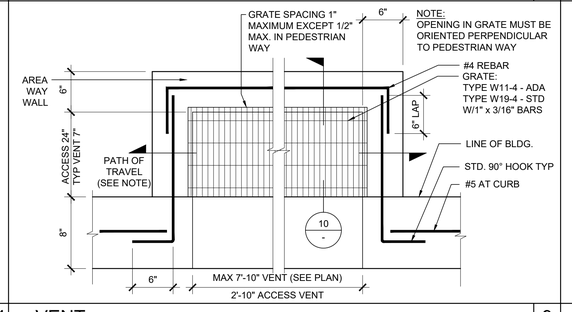
SCALE : 1 1/2"=1'-0" 14




"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

## VENT

SCALE : 1 1/2" = 1'-0" 9



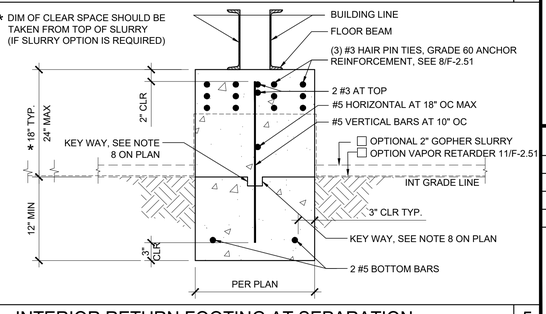

## INTERIOR RETURN FOOTING

SCALE : 1" = 1'-0" 4




## INTERIOR RETURN FOOTING AT SEPARATION

SCALE : 1" = 1'-0" 5




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PROJECT NAME:

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# CONCRETE FOUNDATION DETAILS BELOW GRADE

REVISIONS
02/27/2026 BID SET
2
3
4
5

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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DATE: 08/31/2023

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

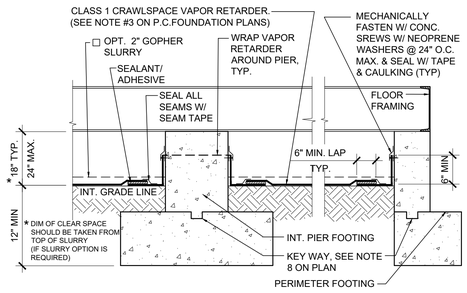
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 29075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

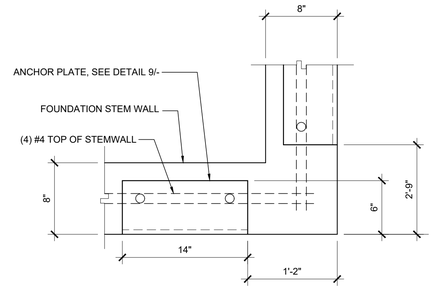
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
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NOT USED 16



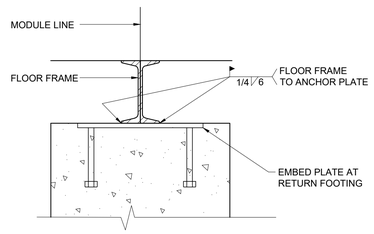

CRAWL SPACE VAPOR RETARDER SCALE: 3/4" = 1' - 0" 11



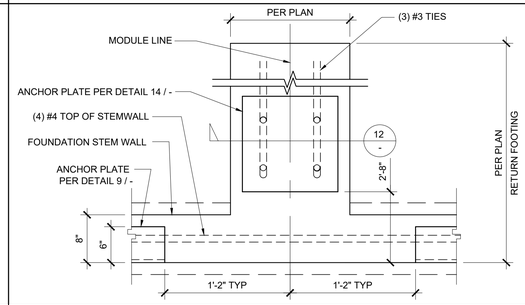

ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0" 6

NOT USED 1

NOT USED 17



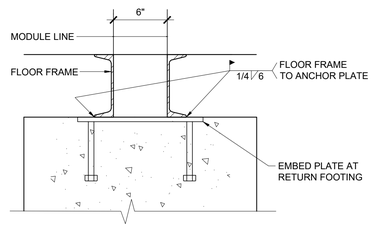

EMBED WELDING AT RETURN FOOTING SCALE : 1 1/2 = 1'-0" 12



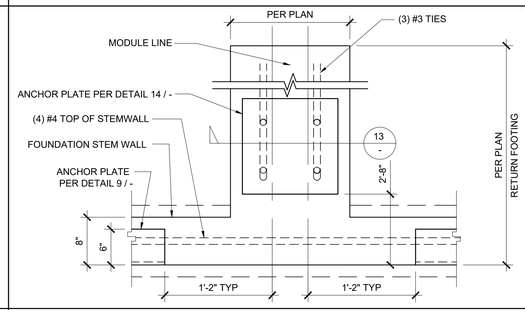

ANCHOR PLATE AT MODULE LINE SCALE : 1" = 1'-0" 7

NOT USED 2

NOT USED 18

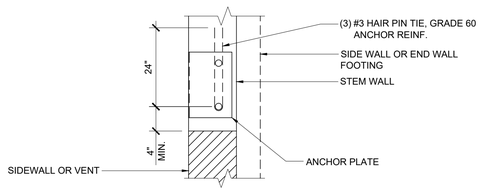



EMBED WELDING AT SEPERATION SCALE : 1 1/2 = 1'-0" 13

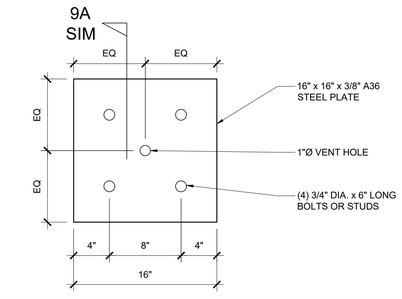



ANCHOR PLATE AT SEPARATION SCALE : 1" = 1'-0" 8

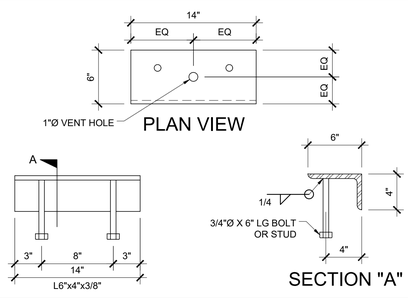
NOT USED 3



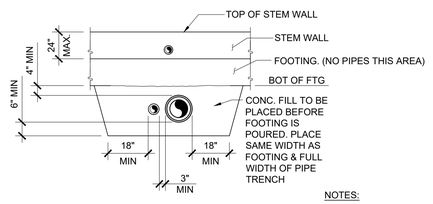

ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT 19




LARGE EMBEDDED PLATE DETAIL SCALE : N.T.S. 14

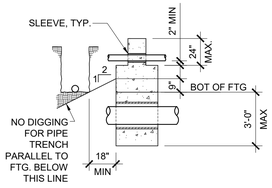



WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0" 9



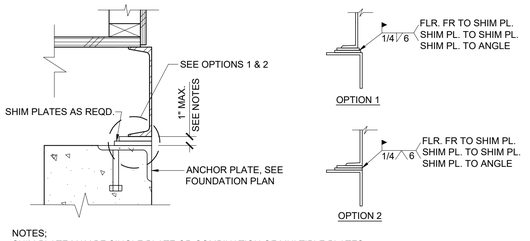

NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES



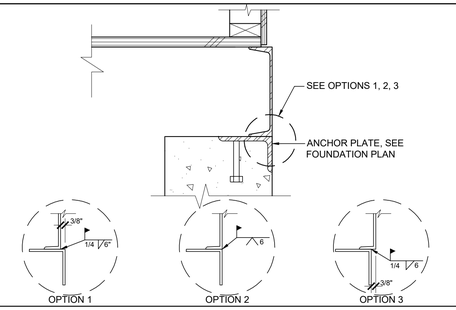

PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0" 5

NOT USED 20




NOTES:
SHIM PLATE MAY BE SINGLE PLATE OR COMBINATION OF MULTIPLE PLATES.
MIN.SHIM THICKNESS IS 1/4".
MAX. SHIM HEIGHT IS 1".
GAPS UP TO 1/4" DO NOT REQ. SHIM PLATE.

FOUNDATION WELDING W/ SHIM PLATES 15




FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0" 10

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APP: 03-123590 INC:
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# FOUNDATION DETAILS
## CONCRETE

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-2.51

# STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-19
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS FOLLOWS:

☐ WHERE A GEOTECHNICAL REPORT IS NOT PROVIDED:
MINIMUM COMPRESSIVE STRENGTH = 5,000 PSI
MAXIMUM WATER/CEMENT RATIO = 0.40
CEMENT TYPE = V COMPLYING WITH ACI 319-19, TABLE 19.3.2.1, FOOTNOTE 8
NORMAL WEIGHT
NO ADMIXTURES CONTAINING CALCIUM CHLORIDE

☐ WHERE A GEOTECHNICAL REPORT IS PROVIDED WHICH INDICATES ONE OF THE FOLLOWING EXPOSURE CLASSIFICATIONS (F0, F1, S0, S1, W0, W1, C0, C1)
MINIMUM COMPRESSIVE STRENGTH = 4,000 PSI
MAXIMUM WATER/CEMENT RATIO = 0.50
CEMENT TYPE = II/V
NORMAL WEIGHT

NOTE: WHERE CONCRETE IS EXPOSED TO THAW AND FREEZE CYCLES IT SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1.

5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN TOP OF STEMWALL AND/OR ANCHOR PLATE SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
9. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
10. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED. SPLICES SHALL BE STAGGERED A MINIMUM OF 24" FROM ADJACENT HORIZONTAL BARS.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

| LOCATION | AMOUNT |
|---|---|
| FORMED EARTH | 2" |
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| WALL-EXPOSED FACE | |
| #5 OR SMALLER | 2" |
| #6 OR LARGER | 2" |
| WALL-UNEXPOSED FACE | 3/4" |

5. HOOKS SHALL BE STAGGERED IN ALTERNATING DIRECTIONS.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2022 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. * (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

* OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:

STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 0.060" OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 0.060" OR GREATER: ASTM A-1011/A GRADE 50

| SHEET STEEL DESIGNATION (GAUGE) | MINIMUM DELIVERED THICKNESS (INCHES) |
|---|---|
| 26 | 0.017 |
| 22 | 0.029 |
| 20 | 0.034 |
| 18 | 0.046 |
| 16 | 0.057 |
| 14 | 0.071 |
| 12 | 0.100 |
| 11 | 0.114 |
| 10 | 0.128 |

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NTD:
(b) CJP GROOVE WELD NDT
ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16. MOISTURE CONTENT = 19% MAX.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = HF #2, OR DF #2, OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 5/8" MDO
   iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.12.1.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
   ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO ROOF JOISTS AND BEAMS W/ #10 X 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" OC AT BOUNDARIES, 6" OC AT EDGES, AND 12" OC FIELD SCREWS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:
1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO FLOOR JOISTS AND BEAMS W/ #10 - 24 X 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

***@ 150-PSF ((FULLY BLOCKED))***
FASTEN TO SHEET METAL SUPPORTS w/ #10 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" O.C. BOUNDARIES + CONT. PANEL EDGES, 6" O.C. @ ALL OTHER PANEL EDGES 12" O.C. INTERMEDIATE.
ALL EDGES OF ALL PANELS SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33 MILS WITH A MINIMUM WIDTH OF 1.5 INCHES. SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3000 PSI MIN
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 X STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 X 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2022 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 15TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&FA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

## FASTENING SCHEDULE (2022 CBC TABLE 2304.10.1)

| DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER | SPACING AND LOCATION |
|---|---|---|
| Roof | | |
| 1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below | 3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Each end, toenail |
| Blocking between rafters or truss not at the wall top plate, to rafter or truss | 2-8d common (2 1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples | Each end, toenail |
| | 2-16 d common (3 1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples | End nail |
| Flat blocking to truss and web filler | 16d common (3 1/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c | Face nail |
| 2. Ceiling joists to top plate | 3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Each joist, toenail |
| 3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1) | 3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Face nail |
| 4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1) | Per Table 2308.7.3.1 | Face nail |
| 5. Collar tie to rafter | 3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Face nail |
| 6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5) | 3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown | Toenail[c] |
| 7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam | 2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown; or | End nail |
| | 3-10d common (3" × 0.148"); or 4-16d box (31/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Toenail |
| Wall | | |
| 8. Stud to stud (not at braced wall panels) | 16d common (3 1/2" × 0.162"); | 24" o.c. face nail |
| | 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | 16" o.c. face nail |
| 9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels) | 16d common (3 1/2" × 0.162"); or | 16" o.c. face nail |
| | 16d box (3 1/2" × 0.135"); or | 12" o.c. face nail |
| | 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | 12" o.c. face nail |
| 10. Built-up header (2" to 2" header) | 16d common (3 1/2" × 0.162"); or | 16" o.c. each edge, face nail |
| | 16d box (3 1/2" × 0.135") | 12" o.c. each edge, face nail |
| 11. Continuous header to stud | 4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128") | Toenail |
| 12. Top plate to top plate | 16d common (3 1/2" × 0.162"); or | 16" o.c. face nail |
| | 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 12" o.c. face nail |
| 13. Top plate to top plate, at end joints | 8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown | Each side of end joint, face nail (minimum 24" lap splice length each side of end joint) |
| 14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels) | 16d common (3 1/2" × 0.162"); or | 16" o.c. face nail |
| | 16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 12" o.c. face nail |
| 15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels | 2-16d common (3 1/2" × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | 16" o.c. face nail |
| 16. Stud to top or bottom plate | 4-8d common(2 1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or | Toenail |
| | 2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | End nail |
| 17. Top plates, laps at corners and intersections | 2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Face nail |
| 18. 1" brace to each stud and plate | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown | Face nail |
| 19. 1" × 6" sheathing to each bearing | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128") | Face nail |
| 20. 1" × 8" and wider sheathing to each bearing | 3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128") | Face nail |
| Floor | | |
| 21. Joist to sill, top plate, or girder | 3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Toenail |
| 22. Rim joist, band joist, or blocking to top plate, sill or other framing below | 8d common (2 1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 6" o.c., toenail |
| 23. 1" × 6" subfloor or less to each joist | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128") | Face nail |
| 24. 2" subfloor to joist or girder | 2-16d common (3 1/2" × 0.162") | Face nail |
| 25. 2" planks (plank & beam — floor & roof) | 2-16d common (3 1/2" × 0.162") | Each bearing, face nail |
| 26. Built-up girders and beams, 2" lumber layers | 20d common (4" × 0.192") | 32" o.c., face nail at top and bottom staggered on opposite sides |
| | 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 24" o.c. face nail at top and bottom staggered on opposite sides |
| | And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Ends and at each splice, face nail |
| 27. Ledger strip supporting joists or rafters | 3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Each joist or rafter, face nail |
| 28. Joist to band joist or rim joist | 3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | End nail |
| 29. Bridging or blocking to joist, rafter or truss | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown | Each end, toenail |

| Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a] | | Edges (inches) | Intermediate supports (inches) |
|---|---|---|---|
| 30. 3/8" — 1/2" | 6d common or deformed (2" × 0.113") (subfloor and wall) | 6 | 12 |
| | 8d common or deformed (2 1/2" × 0.131") (roof) or RSRS-01 (2 3/8" × 0.113") nail (roof)[d] | 6 | 12 |
| | 2 3/8" × 0.113" nail (subfloor and wall) | 6 | 12 |
| | 2 3/8" × 0.113" nail (roof) | 4 | 8 |
| 31. 19/32" — 3/4" | 8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall) | 6 | 12 |
| | 8d common or deformed (2 1/2" × 0.131") (roof) or RSRS-01 (2 3/8" × 0.113") nail (roof)[d] | 6 | 12 |
| | 2 3/8" x 0.113" nail | 4 | 8 |
| 32. 7/8" — 11/4" | 10d common (3" × 0.148"); or 8d deformed 2 1/2" 0.131") | 6 | 12 |
| Other exterior wall sheathing | | | |
| 33. 1/2" fiberboard sheathing[b] | 1 1/2" galvanized roofing nail (7/16" head diameter); or 1 1/4" 16 gage staple with 7/16" or 1" crown | 3 | 6 |
| 34. 25/32" fiberboard sheathing[b] | 1 3/4" galvanized roofing nail (7/16" diameter head); or 1 1/2" 16 gage staple with 7/16" or 1" crown | 3 | 6 |
| Wood structural panels, combination subfloor underlayment to framing | | | |
| 35. 3/4" and less | 8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") | 6 | 12 |
| 36. 7/8" — 1" | 8d common (2 1/2" × 0.131"); or 8d deformed (2 1/2" × 0.131") | 6 | 12 |
| 37. 11/8" — 11/4" | 10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131") | 6 | 12 |
| Panel siding to framing | | | |
| 38. 1/2" or less | 6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099") | 6 | 12 |
| 39. 5/8" | 8d corrosion-resistant siding (2 3/8" × 0.128"); or 8d corrosion-resistant casing (2 1/2" × 0.113") | 6 | 12 |
| Interior paneling | | | |
| 40. 1/4" | 4d casing (1 1/2" × 0.080"); or 4d finish (1 1/2" × 0.072") | 6 | 12 |
| 41. 3/8" | 6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches) | 6 | 12 |

Footnotes:

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.

b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).

c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.

d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

STRUCTURAL SPECIFICATIONS

REVISIONS
02/27/2026 BID SET
2
3
4
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APP. 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL




SILVER CREEK INDUSTRIES
24' x 40' PC

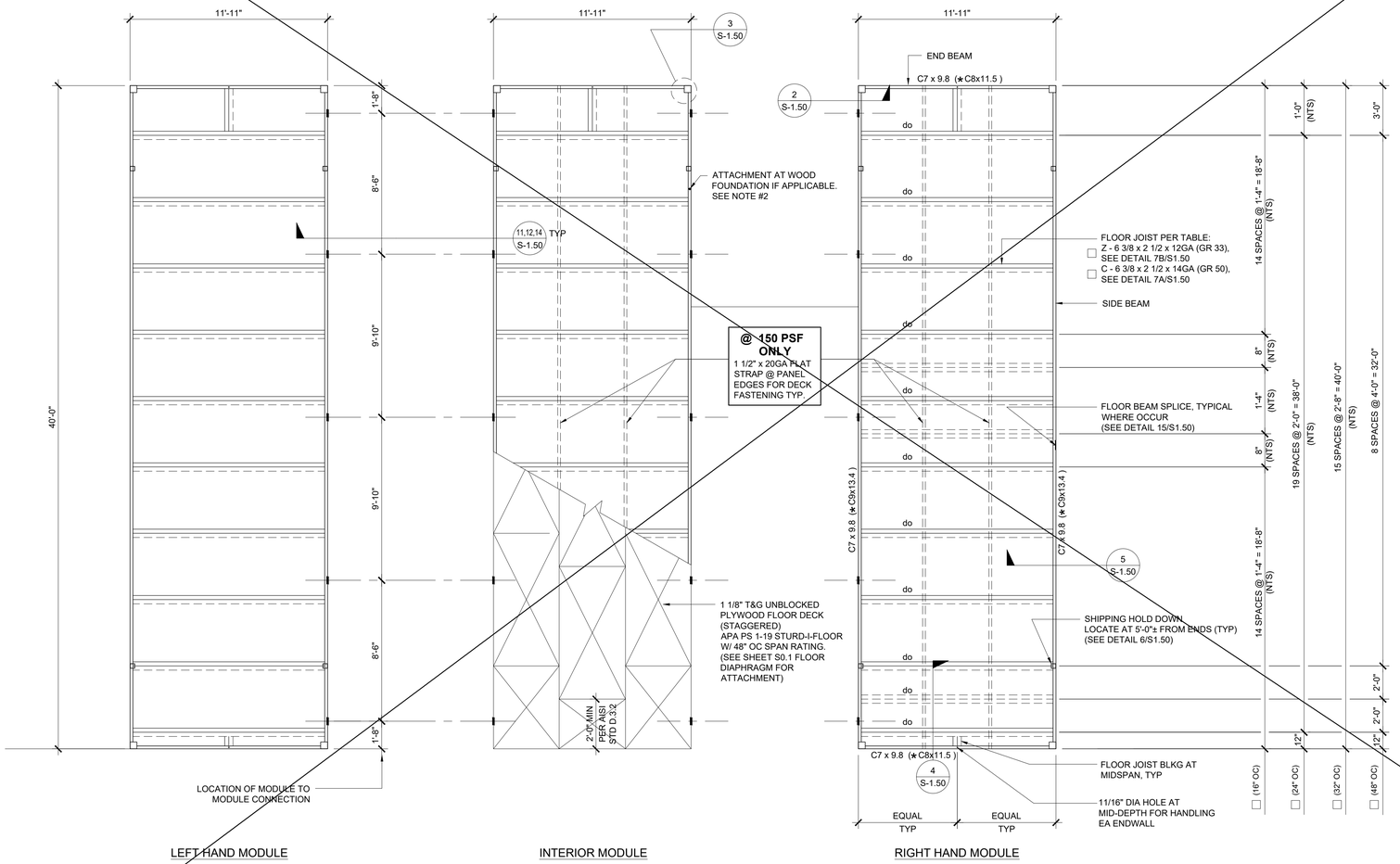
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

S-0.1

NOTE:
* SEE BEAM AND COLUMN SCHEDULE ON SHEETS S-3.01 THRU S-3.02 FOR APPLICABLE FLOOR BEAM SIZE

REAR




LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

FRONT

## NOTES:

1. FOR FLOOR BLOCKING SEE DETAILS 4,7B / S-1.50 (STD), 4,7A / S-1.50 (ALT)
2. FOR BUILDINGS ON WOOD FOUNDATION SYSTEMS, PROVIDE 11/16" DIA. HOLE AT BOTTOM FLANGE OF FLOOR BEAM FOR LAG SCREW ATTACHMENT TO FOUNDATION PLATES BELOW. FOR EXACT HOLE LOCATIONS, SEE FOUNDATION PLAN.
3. FLOOR SHEATHING SHALL BE PRESSURE TREATED WOOD OR NATURALLY DURABLE IF BOTTOM OF PLYWOOD IS LESS THAN 18" CLEAR FROM EXPOSED EARTH.
4. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.02

## FLOOR JOIST TABLE

| | LIVE LOAD PSF | JOIST SPACING | |
|---|---|---|---|
| | | CLASSROOM ☐ | OFFICE ☐ |
| ☐ | 50 | 48" | 48" DBL JOIST |
| ☐ | 50 | 32" | 32" DBL JOIST |
| ☐ | 50 | 24" | 24" DBL JOIST |
| ☐ | 50 | 16" | 16" DBL JOIST |
| ☐ | 50 + 15 | 32" | |
| ☐ | 50 + 15 | 24" | |
| ☐ | 50 + 15 | 16" | |
| ☐ | 100 | 24" | |
| ☐ | 100 | 16" | |
| ☐ | 150 | 16" | |

## FLOOR SHEATHING

☐ PRESSURE TREATED

☐ NON-PRESSURE TREATED

NOTE:
PRESSURE TREATED SHEATHING SHALL ONLY BE PROVIDED WHEN WOOD FOUNDATIONS ARE USED AND EXPOSED EARTH OCCURS WITHIN THE FOUNDATION AT A DISTANCE OF LESS THAN 18" BELOW THE UNDERSIDE OF THE FLOOR SHEATHING. SEE 16/F-0.50 FOR ADDITIONAL INFORMATION.

FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0" | 1

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SHEET TITLE:

# FLOOR FRAMING PLAN
## WOOD FLOOR

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5.

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2475
STRUCTURAL
STATE OF CALIFORNIA

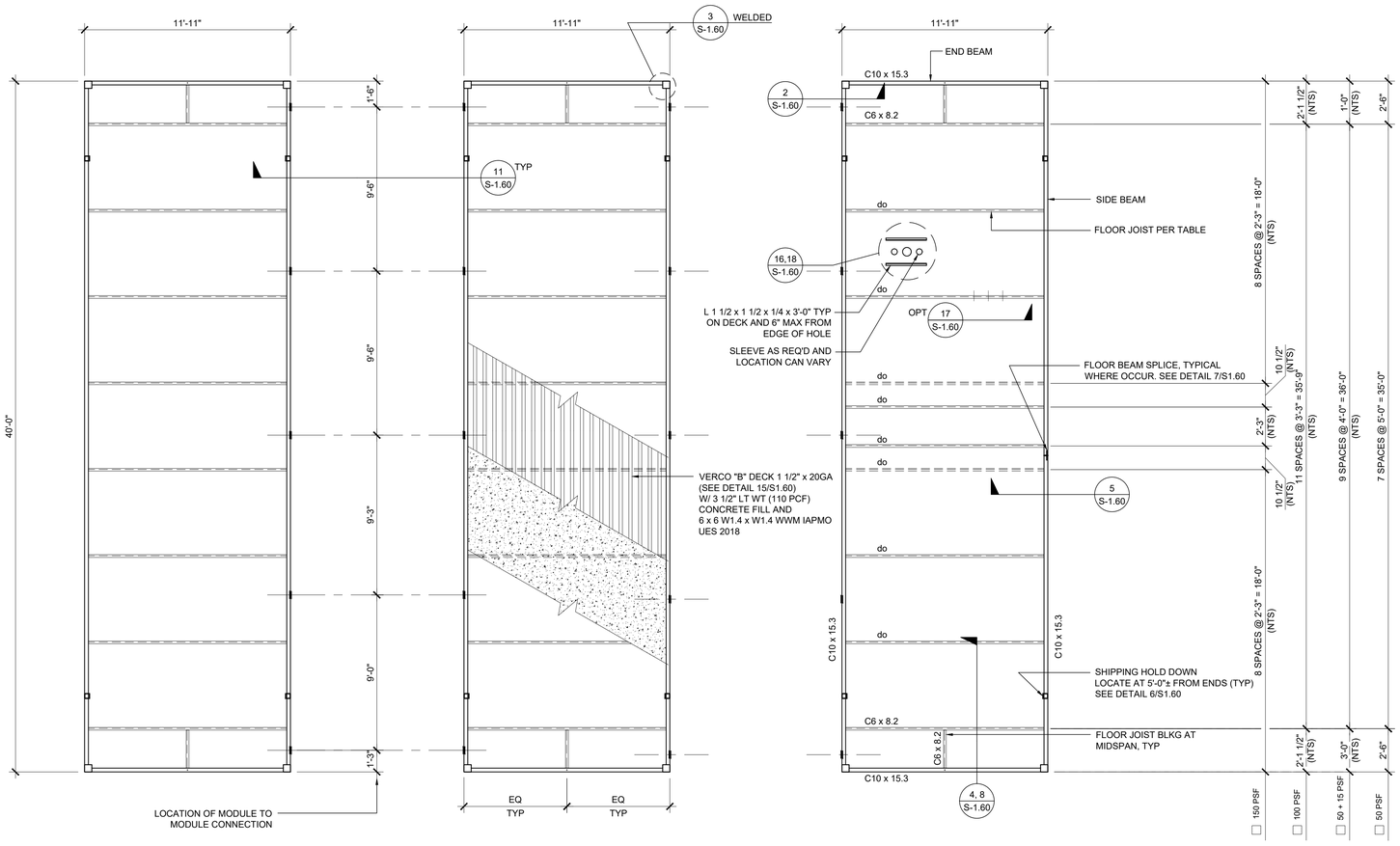
SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

S-1.01

REAR




LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

FRONT

## FLOOR JOIST TABLE

| | LIVE LOAD PSF | JOIST SPACING |
|---|---|---|
| ☐ | 50 | 60" |
| ☐ | 50 + 15 | 48" |
| ☐ | 100 | 39" |
| ☐ | 150 | 27" |

1. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.02

FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 1

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# FLOOR FRAMING PLAN
## CONCRETE FLOOR

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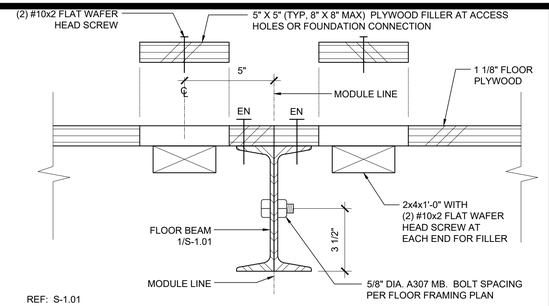
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUP
29575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

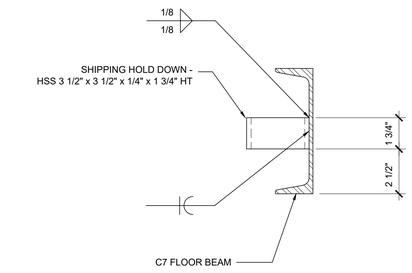
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P.C. SHEET NUMBER

S-1.11



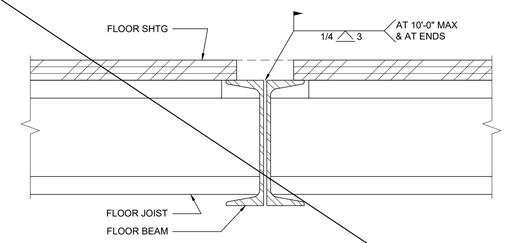

16 MODULE LINE - BOLTED CONNECTION SCALE : 3" = 1'-0"



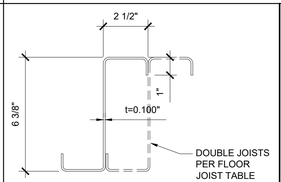

11 SHIPPING HOLD DOWN DETAIL SCALE : 3"=1'-0"

6

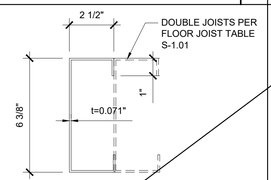
1




17 MODULE LINE CONNECTION (OPTION 1) SCALE : 3"=1'-0"

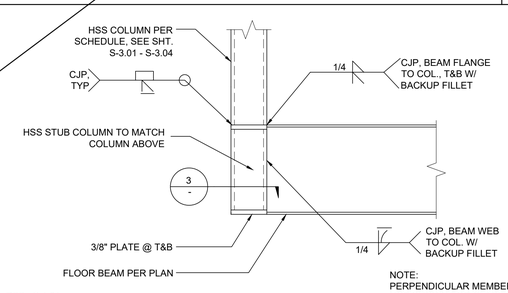



12 FLOOR JOIST SCALE : 3" = 1'-0"




7B FLOOR JOIST SCALE : 3" = 1'-0"

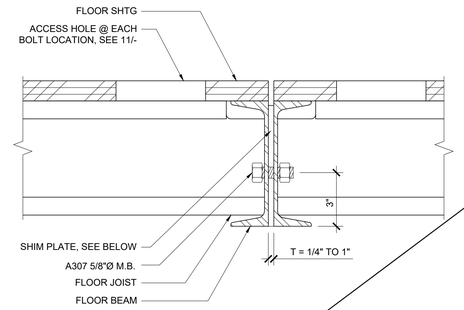
7A



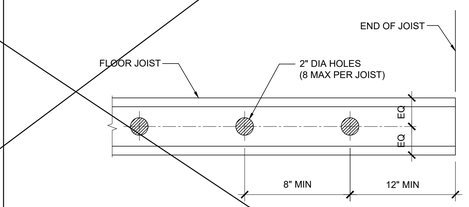

FLOOR FRAMING DETAILS
WOOD FLOOR

FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0"

2

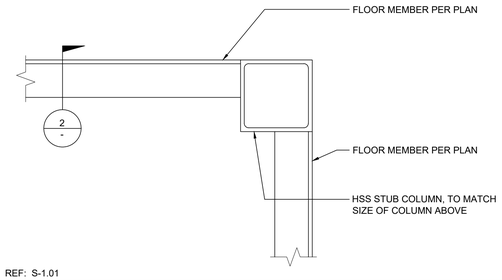



18



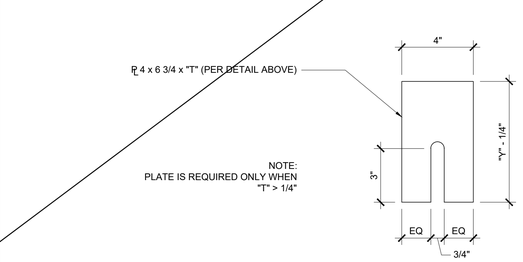

FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0"

8



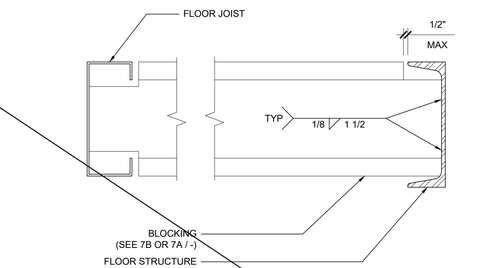

CORNER CONNECTION SCALE : 3" = 1'-0"

3



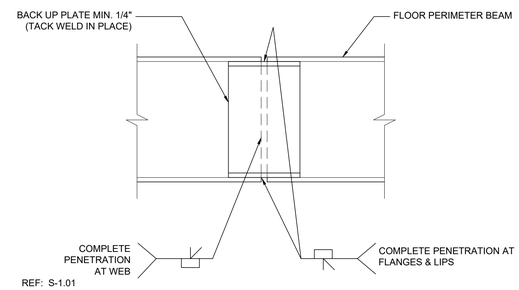

19 MODULE LINE CONNECTION (OPTION 2) SCALE : 3"=1'-0"

14




BLOCKING TO END BEAM SCALE : 3" = 1'-0"

4

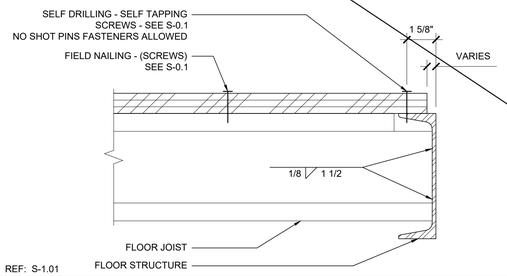



20 FLOOR BEAM SPLICE SCALE : 3" = 1'-0"

15

NOT USED

10




JOIST TO SIDE BEAM SCALE : 3" = 1'-0"

5

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
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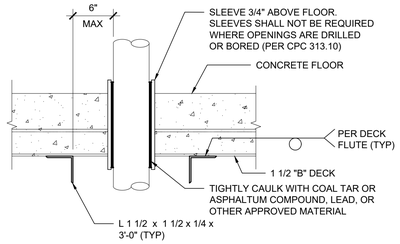
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24576 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

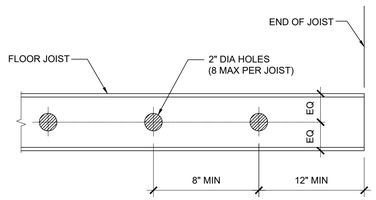
P.C. SHEET NUMBER
S-1.50




REF: S-1.11

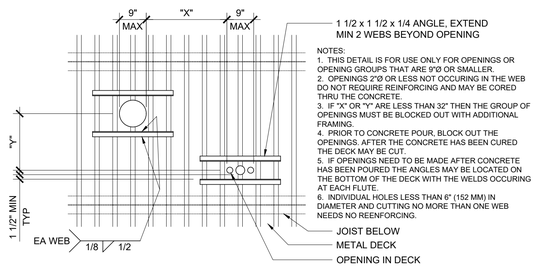
## FLOOR PENETRATION

SCALE : 3" = 1'-0" | 16




## FLOOR JOIST HOLES (OPTIONAL)

SCALE : 1/8" = 1'-0" | 17



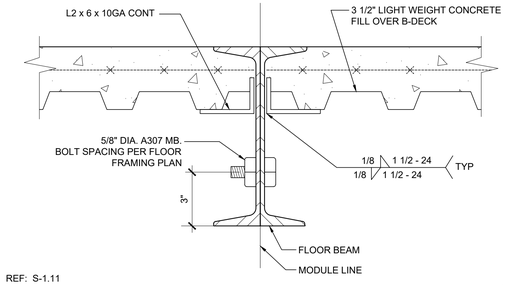

NOTES:
1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 9"Ø OR SMALLER.
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE WEB DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
3. IF "X" OR "Y" ARE LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.
5. IF OPENINGS NEED TO BE MADE AFTER CONCRETE HAS BEEN POURED THE ANGLES MAY BE LOCATED ON THE BOTTOM OF THE DECK WITH THE WELDS OCCURING AT EACH FLUTE.
6. INDIVIDUAL HOLES LESS THAN 6" (152 MM) IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REENFORCING.

## PENETRATIONS IN DECK (OPTION)

SCALE : 1/2"=1'-0" | 18

## NOT USED

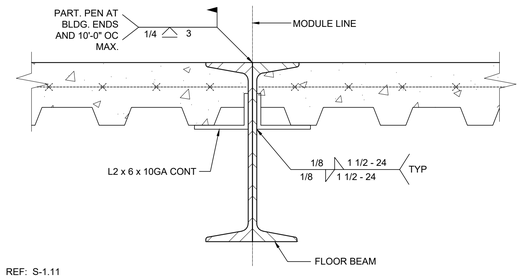
19




REF: S-1.11

## MODULE LINE - BOLTED CONNECTION

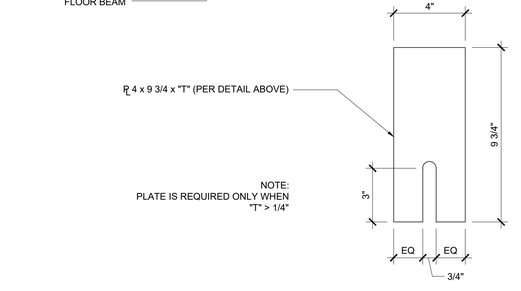
SCALE : 3" = 1'-0" | 11




REF: S-1.11

## MODULE LINE CONNECTION (OPTION 1)

SCALE : 3" = 1'-0" | 12

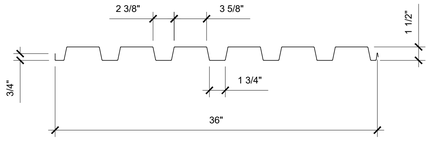



NOTE:
PLATE IS REQUIRED ONLY WHEN "T" > 1/4"

REF: S-1.11

## MODULE LINE CONNECTION (OPTION 2)

SCALE : 3"=1'-0" | 14



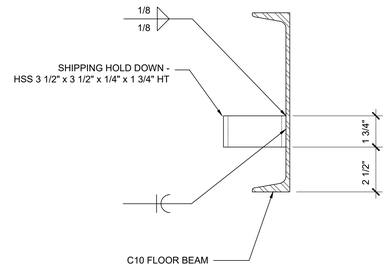

TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I ($IN^4$): 0.22
POSITIVE ($IN^3$): 0.235
NEGATIVE ($IN^3$): 0.246

REF: S-1.11

## FLOOR DECK PROPERTY

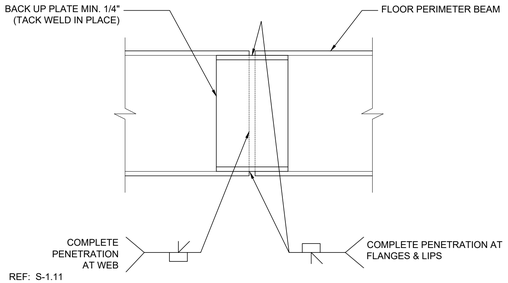
SCALE : 1 1/2" = 1'-0" | 15




REF: S-1.11

## SHIPPING HOLD DOWN DETAIL

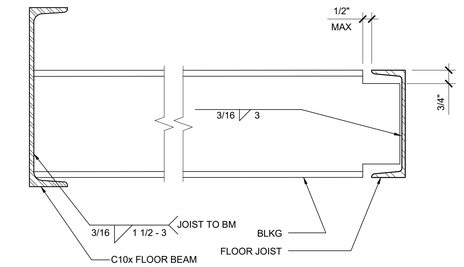
SCALE : 3"=1'-0" | 6




REF: S-1.11

## FLOOR BEAM SPLICE

SCALE : 3" = 1'-0" | 7

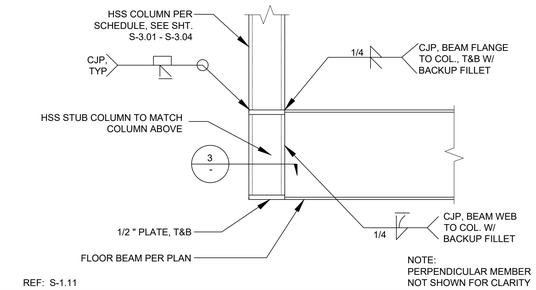



REF: S-1.11

## BLOCKING TO JOIST

SCALE : 3"=1'-0" | 8

10

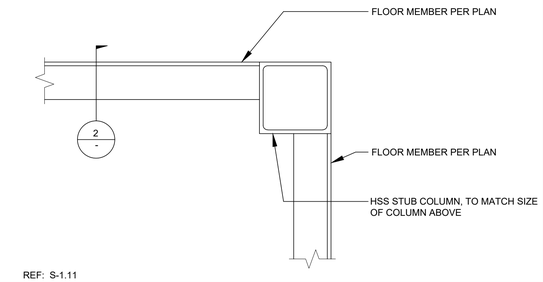



NOTE:
PERPENDICULAR MEMBER NOT SHOWN FOR CLARITY

REF: S-1.11

## FLOOR BEAM TO COLUMN CONNECTION

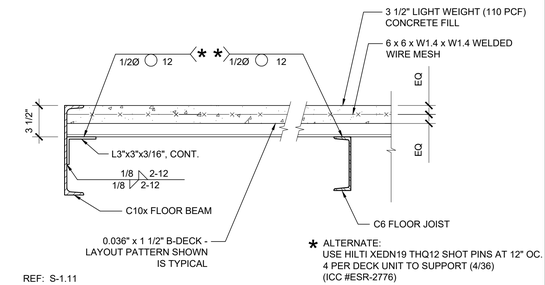
SCALE : 1 1/2" = 1'-0" | 2




REF: S-1.11

## CORNER CONNECTION

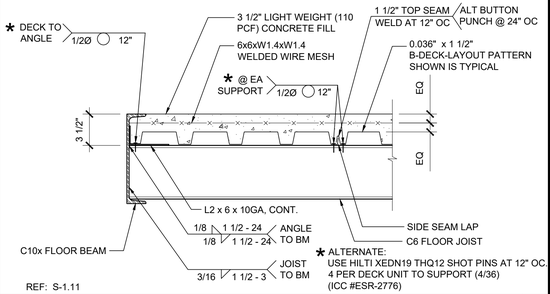
SCALE : 3" = 1'-0" | 3




REF: S-1.11

## DECK AT END BEAM

SCALE : 1 1/2" = 1'-0" | 4




REF: S-1.11

## JOIST TO SIDE BEAM

SCALE : 1 1/2" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# FLOOR FRAMING DETAIL
## CONCRETE FLOOR

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

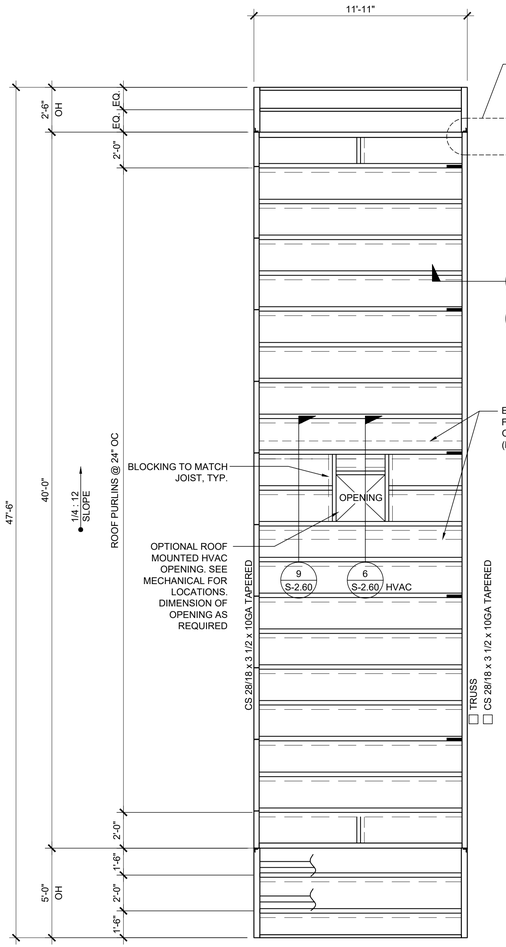
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29575 STRUCTURAL STATE OF CALIFORNIA

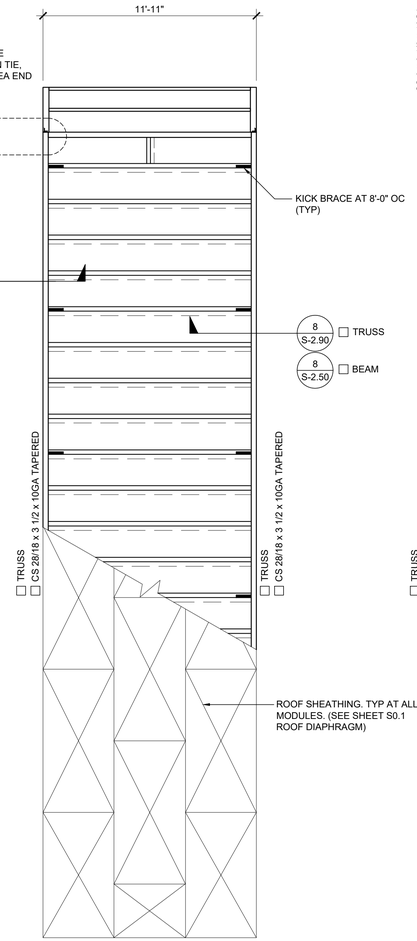
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

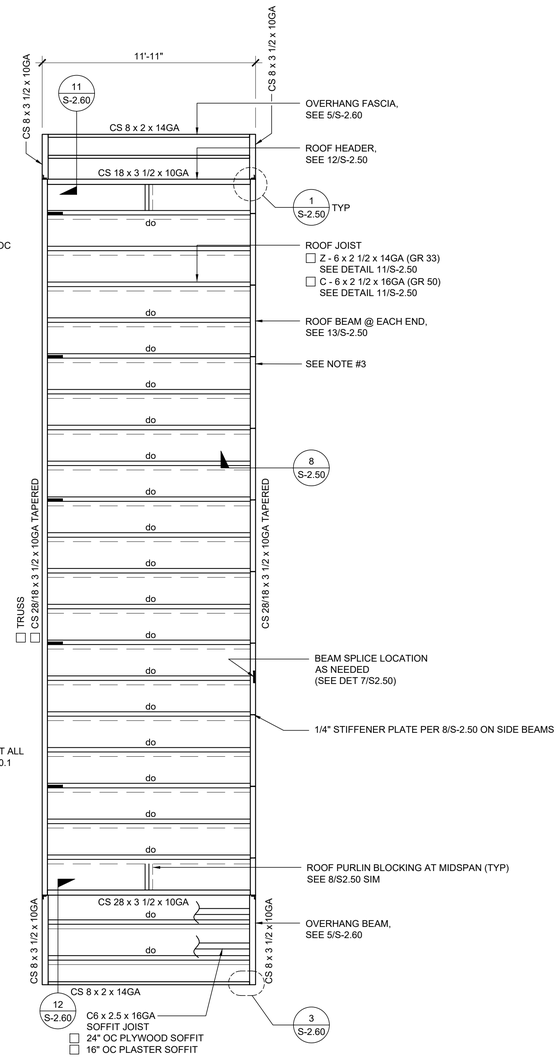
P.C. SHEET NUMBER
S-1.60




LEFT HAND MODULE



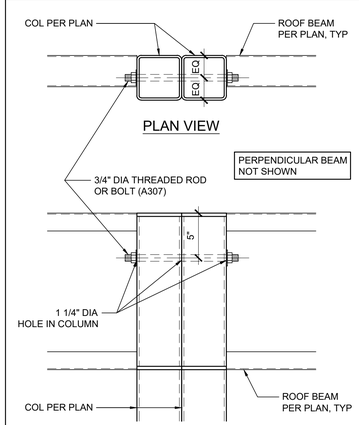

INTERIOR MODULE




RIGHT HAND MODULE

## NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
2. PROVIDE ADDITIONAL JOIST FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S-2.50 OR 14 / S-2.51 DETAILS.
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS




SECTION VIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING PLAN
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

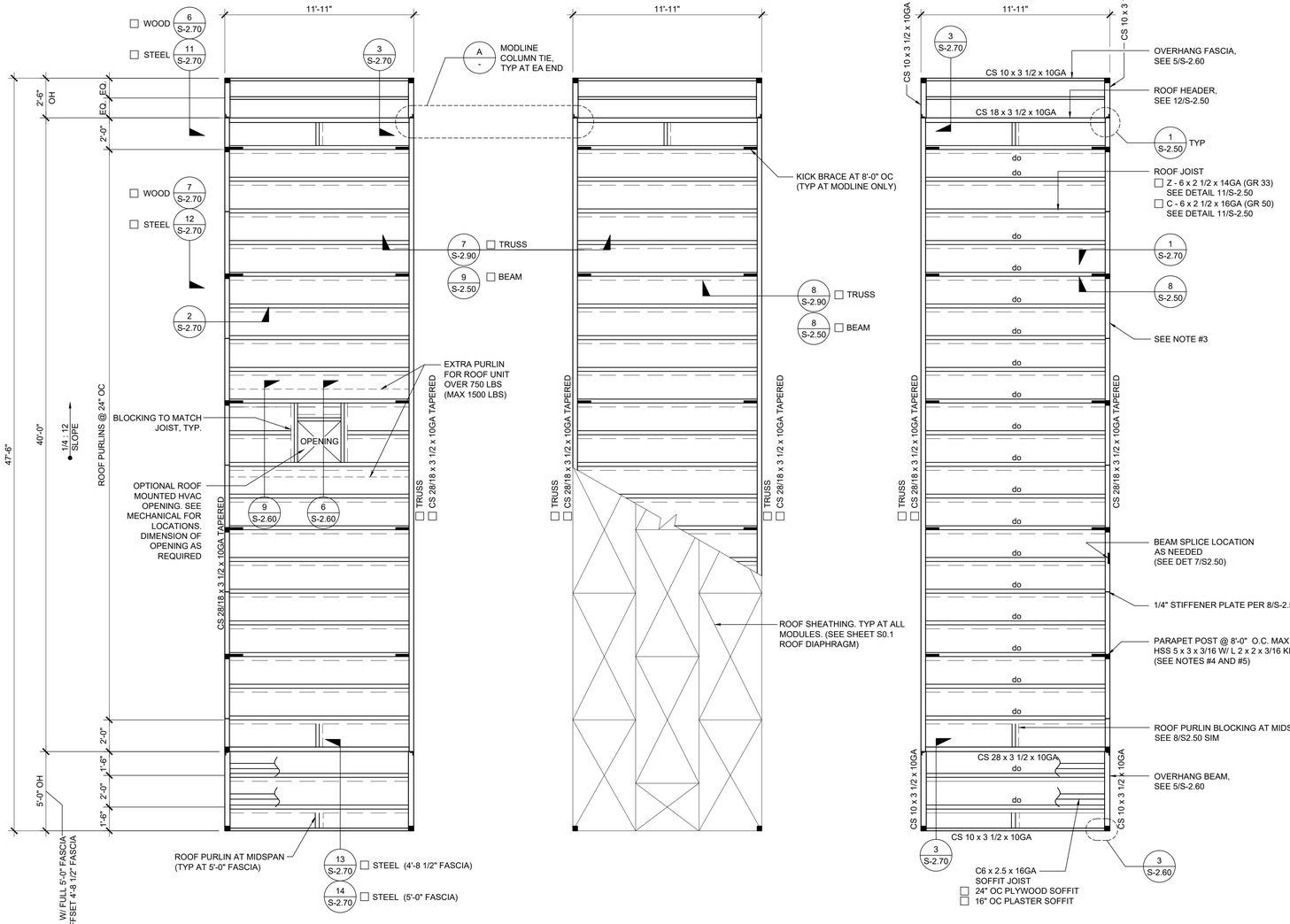
REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER
S-2.01

ROOF FRAMING PLAN
SCALE: 1/4" = 1' - 0"



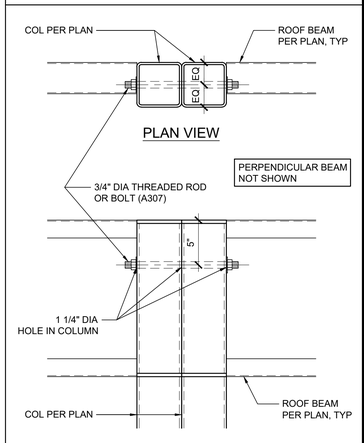

LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

## NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
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3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS
4. PARAPET HSS POST AND KICK BRACING REQUIRED WHERE PARAPET HEIGHT IS OVER 9" - SEE 1,2/S-2.70
5. PARAPET HEIGHT TO BE DETERMINED BY ARCHITECT BEFORE FABRICATION. (4'-0" MAX.) (SEE ARCHITECTURAL ELEVATION SHEET)




SECTION VIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING PLAN
## PARAPET
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
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IDENTIFICATION STAMP
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APP: 04-121999 INC:
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

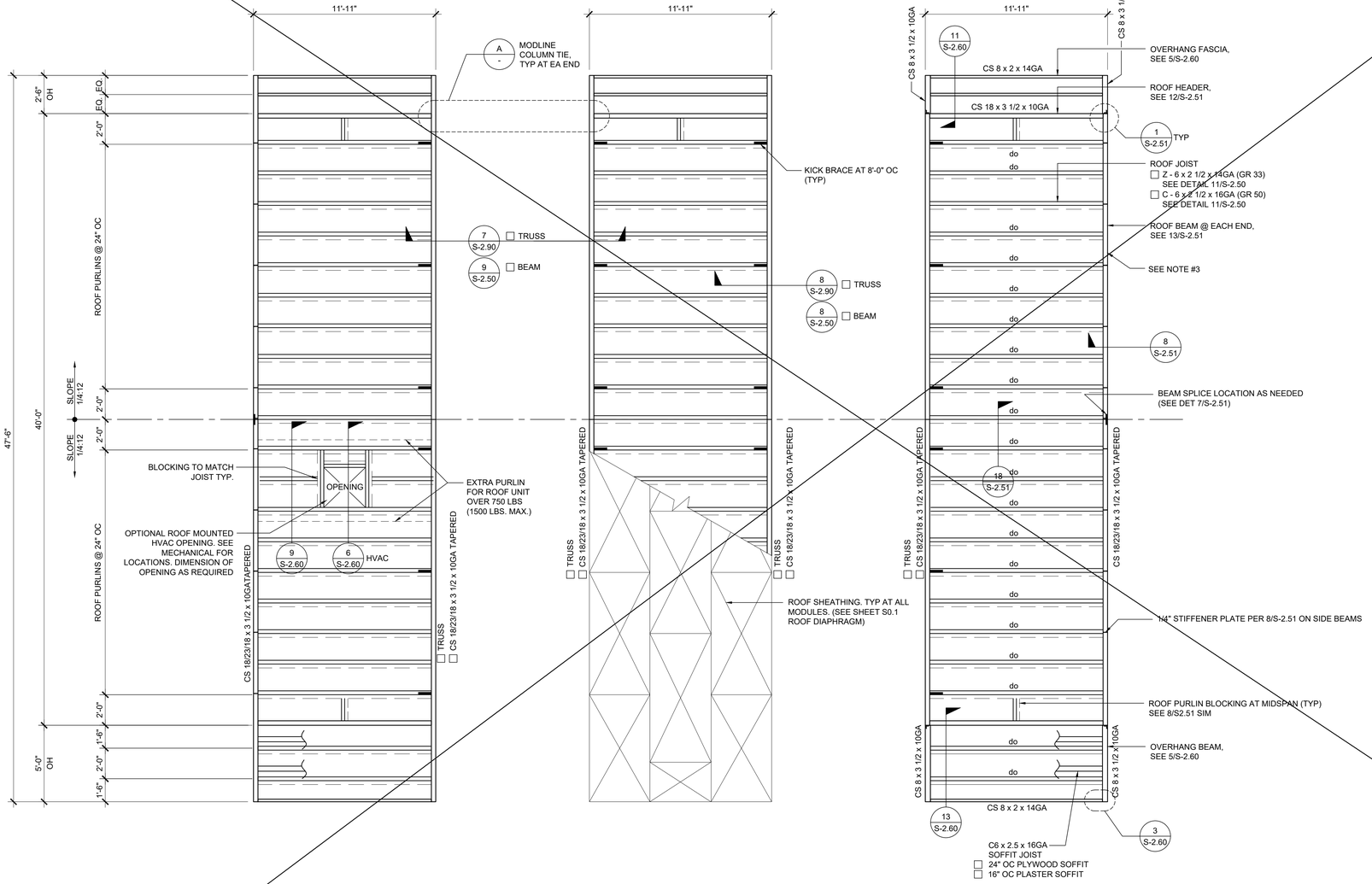
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

S-2.03

ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0"



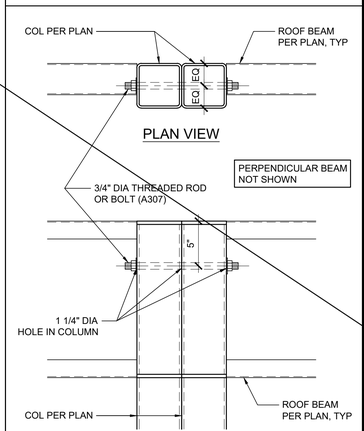

LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

## NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
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3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS




SECTION VIEW

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING PLAN
## DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24078 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

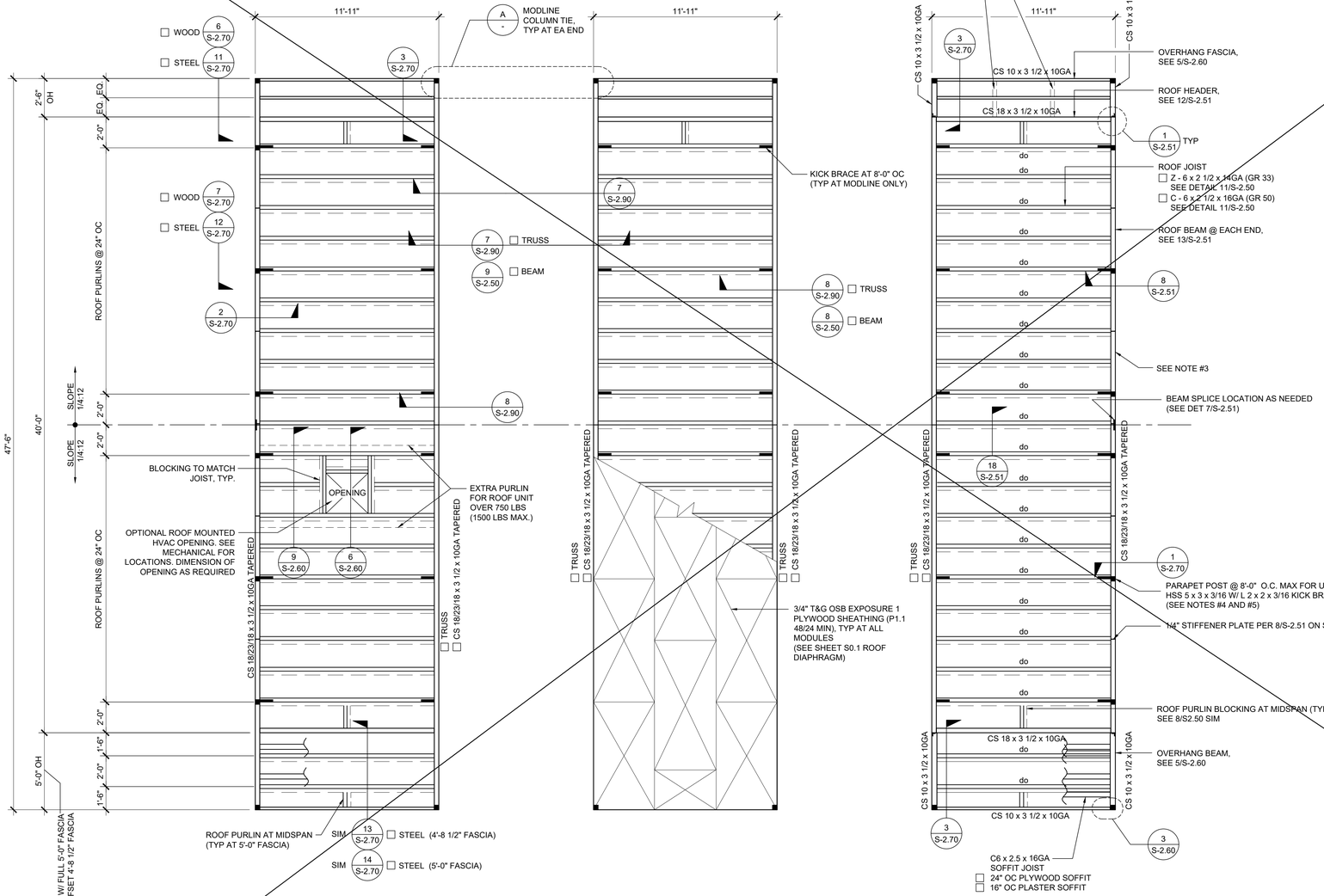
P.C. SHEET NUMBER

S-2.11

ROOF FRAMING PLAN

SCALE: 1/4" = 1'- 0" | 1

NOTE:
ONE JOIST BLOCK @ EACH SIDE OF HVAC UNIT IN THE EVENT THAT HVAC UNIT IS CENTERED OR PARAPET OPTION IS USED TYP.



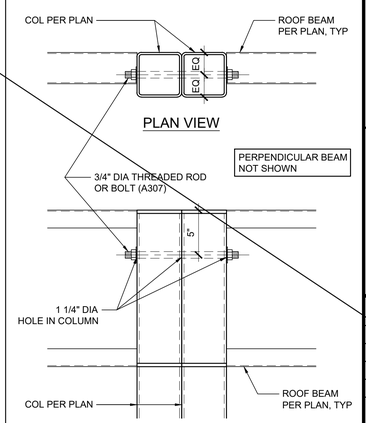

LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

## NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION.
   SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
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3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS
4. PARAPET HSS POST AND KICK BRACING REQUIRED WHERE PARAPET HEIGHT IS OVER 9" - SEE 1,2/S-2.70
5. PARAPET HEIGHT TO BE DETERMINED BY ARCHITECT BEFORE FABRICATION. (4'-0" MAX.)
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SECTION VIEW

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PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING PLAN
# PARAPET
# DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

S-2.13

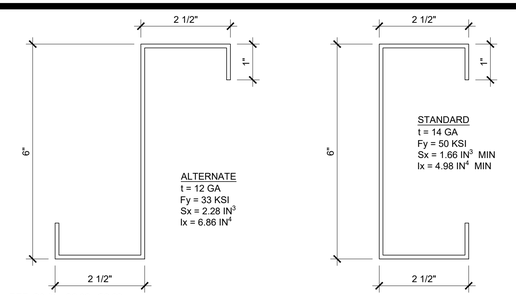
ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0"

NOT USED 16

## ROOF PURLIN

SCALE : 6"=1'-0" 11

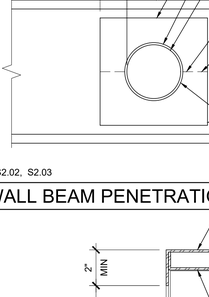



REF: S2.01, S2.02, S2.03

NOT USED 17

## ROOF HEADER

SCALE : NTS 12




18" (LOW END)
t = 10 GA
Fy = 40 KSI
Sx = 17.56 IN3 MIN.
Ix = 158.10 IN4 MIN.

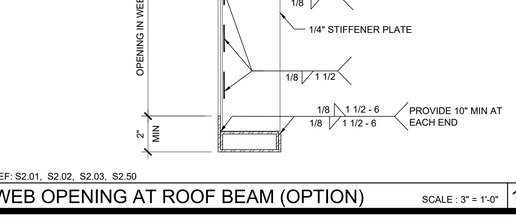
28" (HIGH END)
t = 10 GA
Fy = 40 KSI
Sx = 33.80 IN3 MIN.
Ix = 474.00 IN4 MIN.

REF: S2.01, S2.02, S2.03

NOT USED 18

## SIDE BEAM

SCALE : NTS 13




18"
t = 10 GA
Fy = 40 KSI
Sx = 17.56 IN3
Ix = 158.10 IN4

28"
t = 10 GA
Fy = 40 KSI
Sx = 33.80 IN3
Ix = 474.00 IN4

REF: S2.01, S2.02, S2.03, S2.50

NOT USED 19

## SIDEWALL BEAM PENETRATION

SCALE : 1 1/2"=1'-0" 14




REF: S2.01, S2.02, S2.03

NOT USED 20

## WEB OPENING AT ROOF BEAM (OPTION)

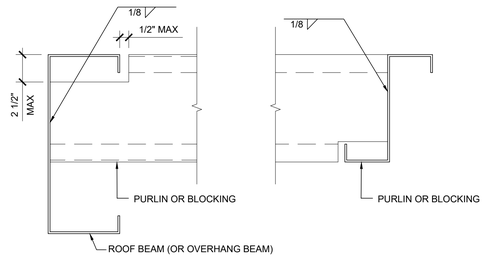
SCALE : 3" = 1'-0" 15




REF: S2.01, S2.02, S2.03, S2.50

## TYPICAL PURLIN CONNECTION DETAIL

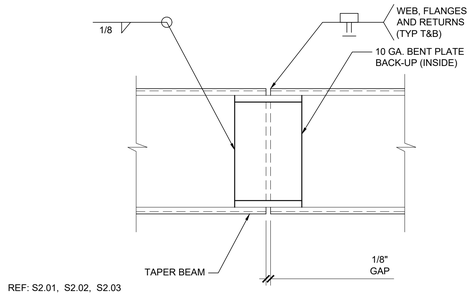
SCALE : 3" = 1'-0" 6




REF: S2.02

## BEAM SPLICE

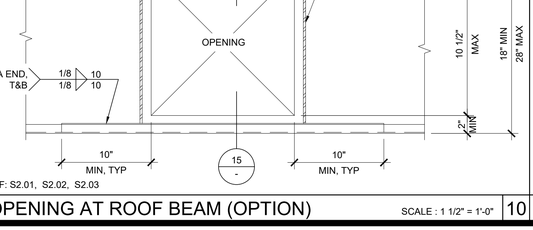
SCALE: 3" = 1'-0" 7




REF: S2.01, S2.02, S2.03

## PURLIN TO ROOF BEAM @ STIFFENER

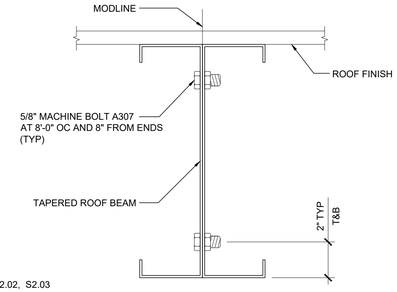
SCALE : 3"=1'-0" 8




REF: S2.01, S2.02, S2.03

## MODULE CONNECTION AT ROOF (OPTION)

SCALE : 3"=1'-0" 9




REF: S2.01, S2.02, S2.03

## OPENING AT ROOF BEAM (OPTION)

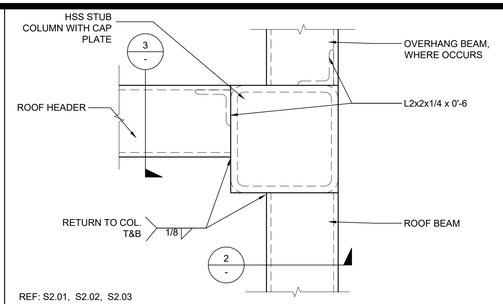
SCALE : 1 1/2" = 1'-0" 10




REF: S2.01, S2.02, S2.03

## COLUMN AT ROOF - PLAN

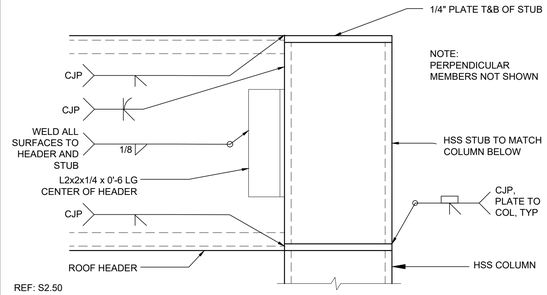
SCALE : 3" = 1'-0" 1




REF: S2.01, S2.02, S2.03

## COLUMN AT ROOF - SECTION

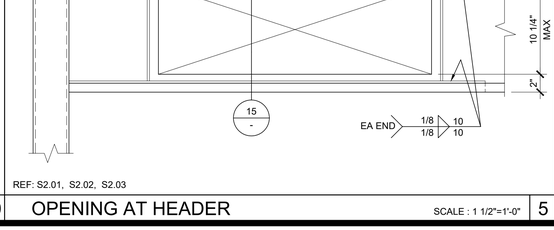
SCALE : 3" = 1'-0" 2




REF: S2.50

## COLUMN AT ROOF OVERHANG

SCALE : 3" = 1'-0" 3




NOTE: PERPENDICULAR
MEMBER NOT SHOWN

REF: S2.50

NOT USED 4

## OPENING AT HEADER

SCALE : 1 1/2"=1'-0" 5




REF: S2.01, S2.02, S2.03

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APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING DETAILS
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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APP: 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

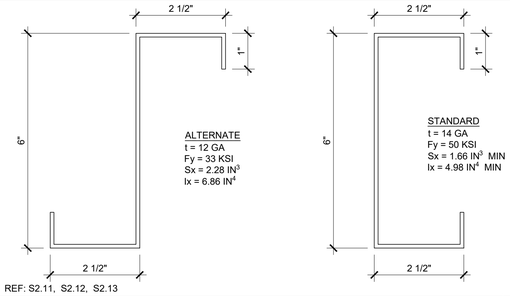
P.C. SHEET NUMBER

S-2.50

NOT USED | 16

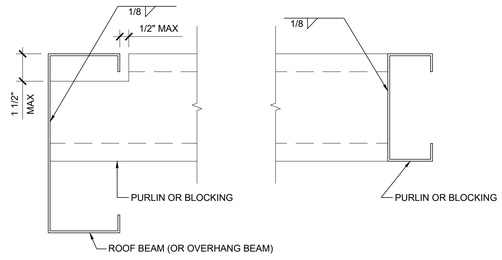
REF: S2.11, S2.12, S2.13

## ROOF PURLIN | SCALE : 6"=1'-0" | 11



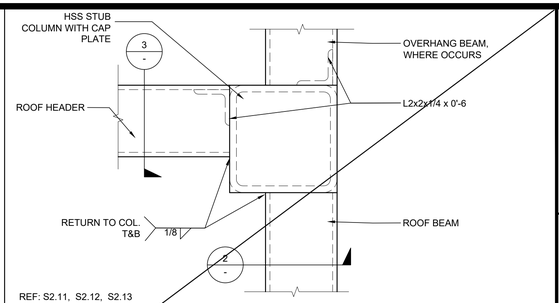

REF: S2.11, S2.12, S2.13

## TYPICAL PURLIN CONNECTION DETAIL | SCALE : 3" = 1'-0" | 6




REF: S2.12

## COLUMN AT ROOF - PLAN | SCALE : 3" = 1'-0" | 1

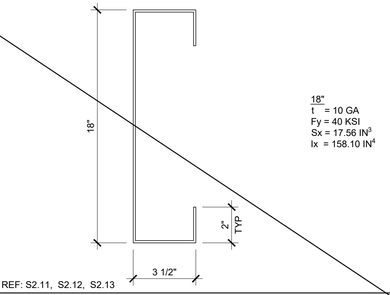



REF: S2.11, S2.12, S2.13

NOT USED | 17

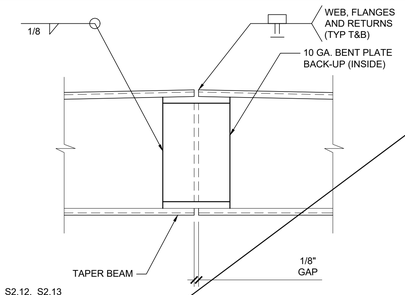
REF: S2.11, S2.12, S2.13

## ROOF HEADER | SCALE : NTS | 12



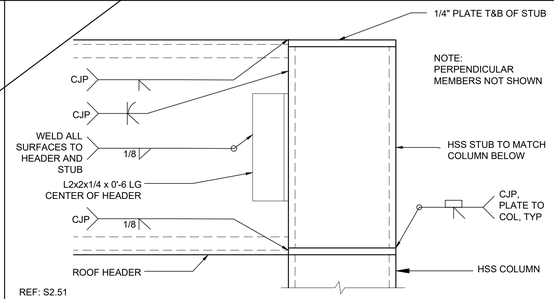

REF: S2.11, S2.12, S2.13

## BEAM SPLICE | SCALE: 3" = 1'-0" | 7




REF: S2.11, S2.12, S2.13

## COLUMN AT ROOF - SECTION | SCALE : 3" = 1'-0" | 2

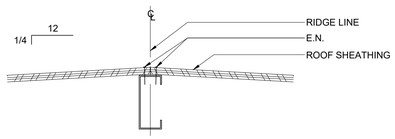



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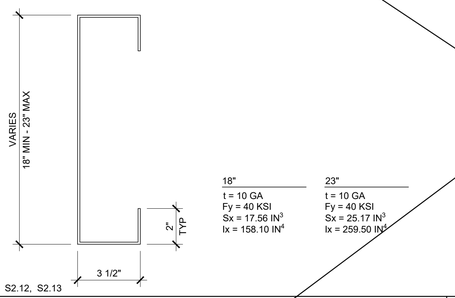
REF: S2.11, S2.12, S2.13

## PURLINS AT RIDGE | SCALE : 1 1/2"=1'-0" | 18



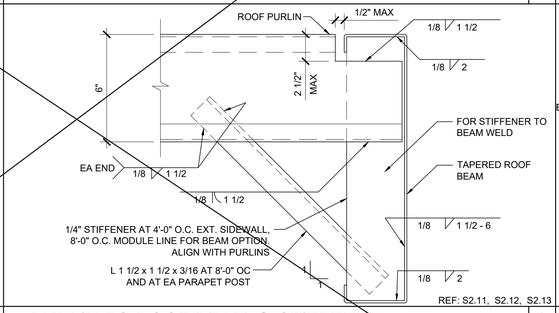

REF: S2.11, S2.12, S2.13

## SIDE BEAM | SCALE : NTS | 13



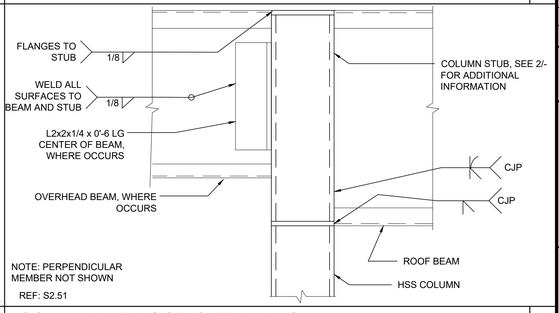

REF: S2.11, S2.12, S2.13

## PURLIN TO ROOF BEAM @ STIFFENER | SCALE : 3"=1'-0" | 8




REF: S2.11, S2.12, S2.13

## COLUMN AT ROOF OVERHANG | SCALE : 3" = 1'-0" | 3



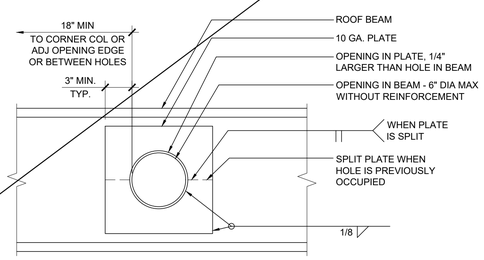

NOTE: PERPENDICULAR MEMBER NOT SHOWN

REF: S2.51

NOT USED | 19

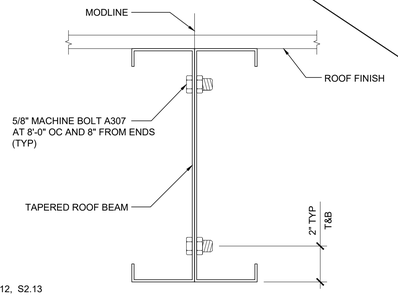
REF: S2.11, S2.12, S2.13

## SIDEWALL BEAM PENETRATION | SCALE : 1 1/2"=1'-0" | 14




REF: S2.11, S2.12, S2.13

## MODULE CONNECTION AT ROOF (OPTION) | SCALE : 3"=1'-0" | 9



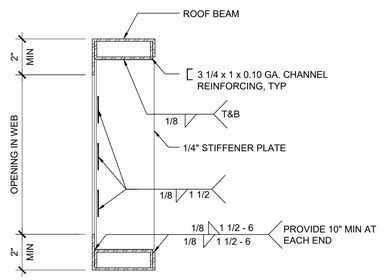

REF: S2.11, S2.12, S2.13

NOT USED | 4

NOT USED | 20

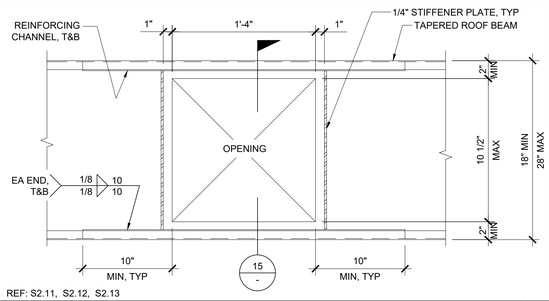
REF: S2.11, S2.12, S2.13, S2.51

## WEB OPENING AT ROOF HEADER | SCALE : 3" = 1'-0" | 15



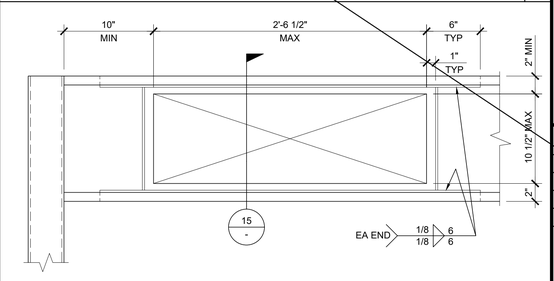

REF: S2.11, S2.12, S2.13, S2.51

## OPENING AT ROOF BEAM (OPTION) | SCALE : 1 1/2" = 1'-0" | 10




REF: S2.11, S2.12, S2.13

## OPENING AT HEADER | SCALE : 1 1/2"=1'-0" | 5




REF: S2.11, S2.12, S2.13

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# ROOF FRAMING DETAILS
## DUAL SLOPE

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24275 STRUCTURAL STATE OF CALIFORNIA

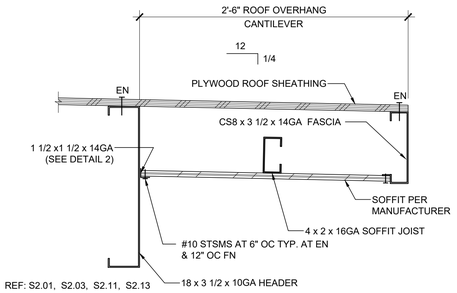
SILVER CREEK INDUSTRIES
24' x 40' PC

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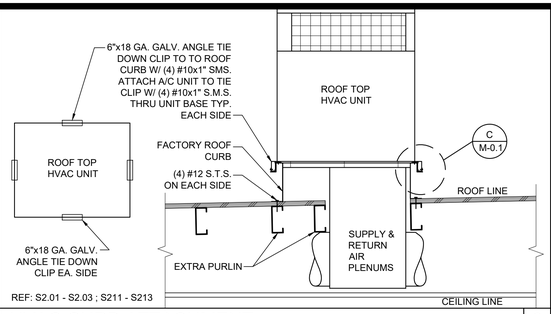
NOT USED | 16

REAR OVERHANG SECTION SCALE : 1 1/2" = 1'-0" | 11



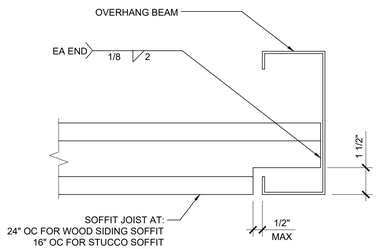

REF: S2.01, S2.03, S2.11, S2.13

HVAC CURB ATTACHMENT SCALE : 3/4" = 1'-0" | 6




REF: S2.01 - S2.03 ; S211 - S213

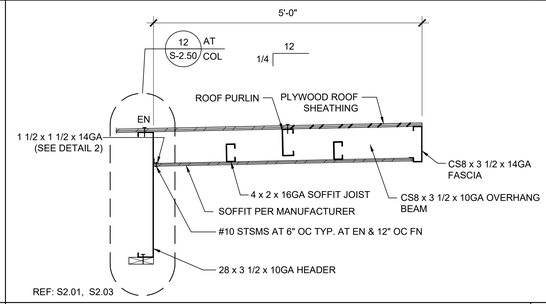
SOFFIT JOIST TO OVERHANG BEAM SCALE : 3"=1'-0" | 1




REF: S3.01

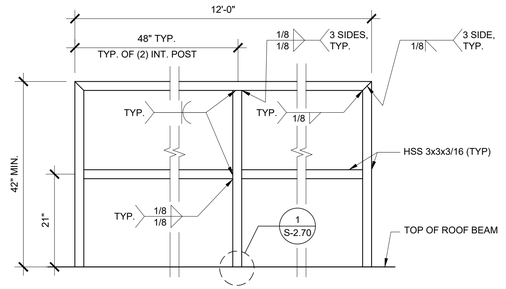
NOT USED | 17

FRONT OVERHANG SECTION - MONO SLOPE SCALE: 3/4" = 1'-0" | 12

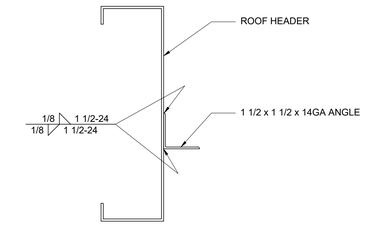



REF: S2.01, S2.03

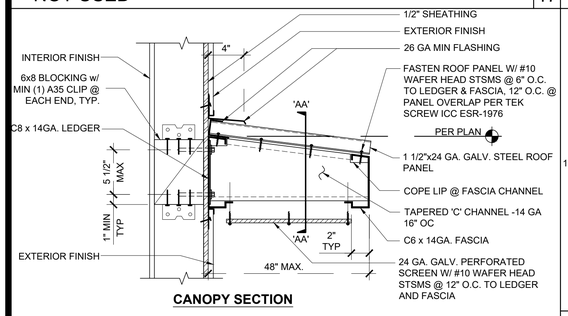
GUARDRAIL AT SIDEWALL SCALE : 3/4"=1'-0" | 7



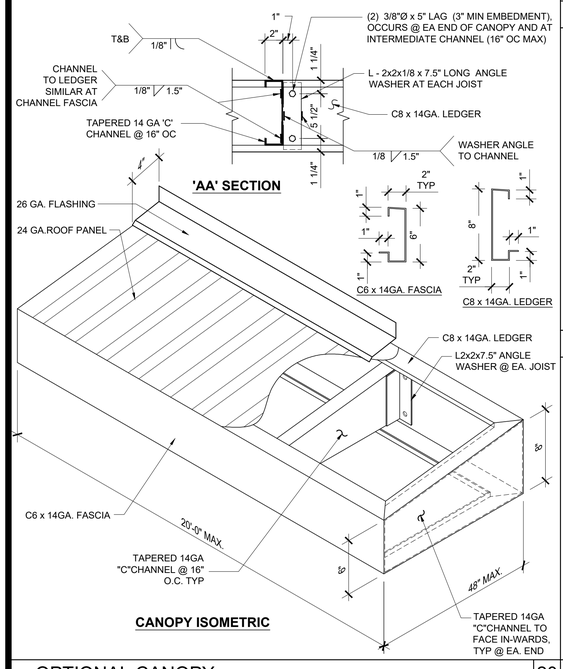

SOFFIT ANGLE TO HEADER CONNECTION SCALE : 3"=1'-0" | 2




REF: S3.01




**CANOPY SECTION**

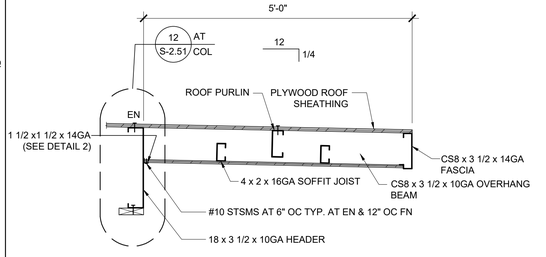



**'AA' SECTION**

**CANOPY ISOMETRIC**

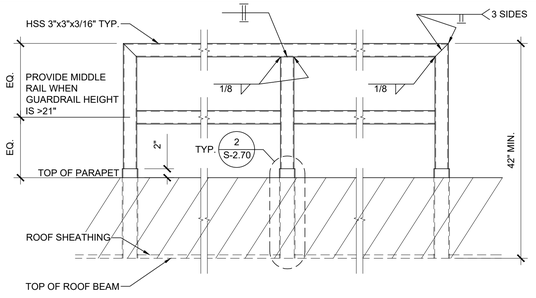
OPTIONAL CANOPY SCALE : 1 1/2" = 1'-0" | 20

FRONT OVERHANG SECTION - DUAL SLOPE SCALE: 3/4" = 1'-0" | 13

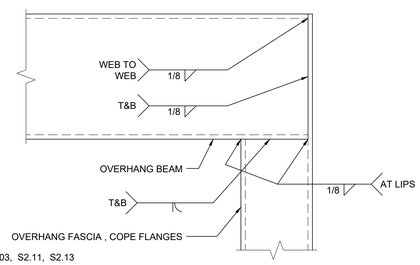



REF: S2.11, S2.13

ROOF GUARDRAIL W/ PARAPET SCALE : 3/4" = 1'-0" | 8



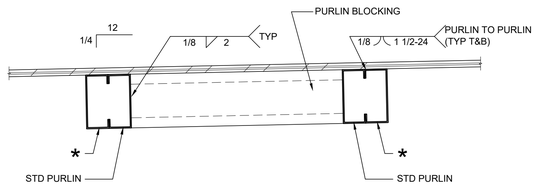

OVERHANG FASCIA TO BEAM CONNECTION SCALE : 6"=1'-0" | 3




REF: S2.01, S2.03, S2.11, S2.13

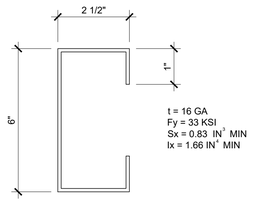
NOT USED | 14

DOUBLE PURLINS AT HVAC SCALE: 1 1/2" = 1'-0" | 9




REF: S2.01 - S2.03 ; S211 - S213

SOFFIT JOIST SCALE : 6"=1'-0" | 4

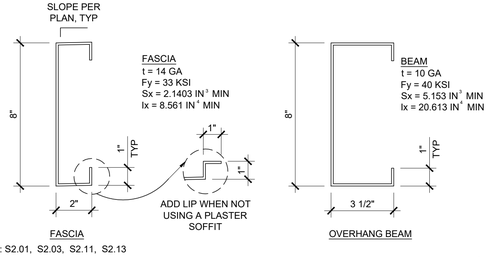



REF: S2.01, S2.03, S2.11, S2.13, S3.01

NOT USED | 15

NOT USED | 10

OVERHANG FASCIA & BEAM SCALE : 3"=1'-0" | 5




REF: S2.01, S2.03, S2.11, S2.13

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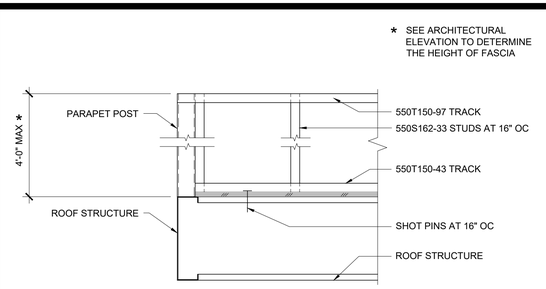
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
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P.C. SHEET NUMBER
S-2.60

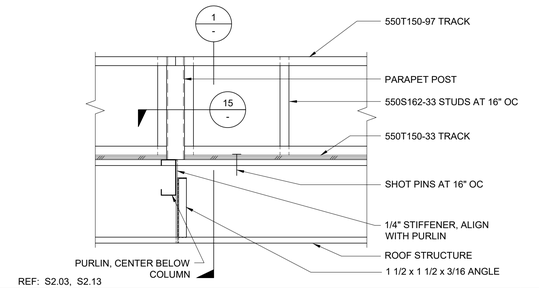



REF: S2.03, S2.13

16 PARAPET STEEL METAL FRAMING AT CORNER SCALE : 1" = 1'-0"

11 NOT USED

6 TUBE STEEL TO BEAM AT SIDEWALL SCALE : 3"=1'-0" 1

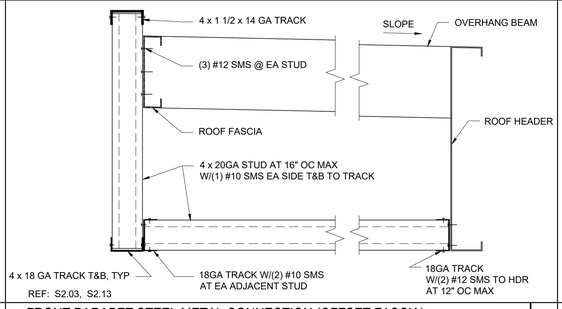



REF: S2.03, S2.13

17 PARAPET STEEL METAL FRAMING AT SIDEWALL SCALE : 1"=1'-0"

12 NOT USED

7 PARAPET POST WITH SLEEVE OPTION SCALE : 1 1/2"=1'-0" 2

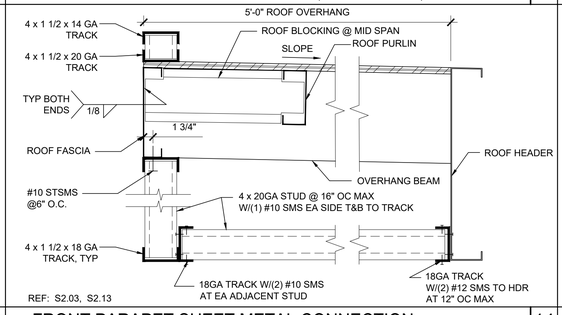



REF: S2.03, S2.13

18 FRONT PARAPET STEEL METAL CONNECTION (OFFSET FASCIA) SCALE : 1 1/2"=1'-0"

13 NOT USED

8 PARAPET POST CONNECTION AT MODLINE SCALE : 1 1/2"=1'-0" 3

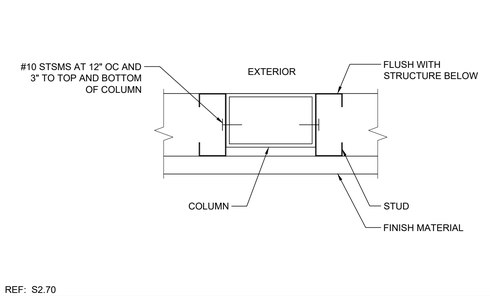



REF: S2.03, S2.13

19 FRONT PARAPET SHEET METAL CONNECTION SCALE : 1 1/2"=1'-0"

14 NOT USED

9 PARAPET POST CONNECTION AT INTERIOR SCALE : 1 1/2"=1'-0" 4

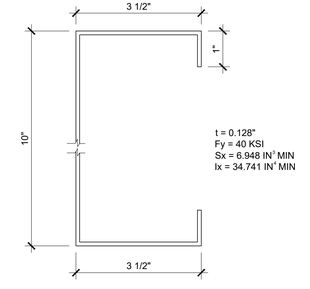


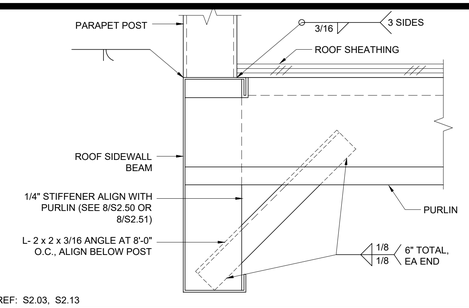

REF: S2.70

20 PARAPET SHEET METAL FRAMING TO TUBE STEEL SCALE : 3"=1'-0"

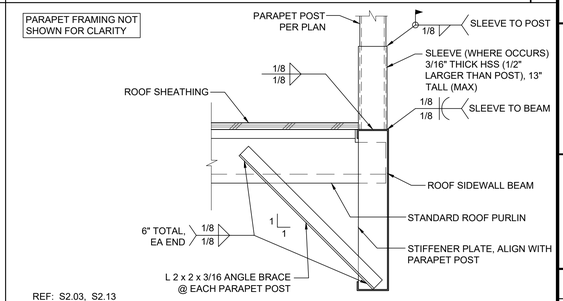
15 NOT USED

10 OVERHANG FASCIA/BEAM @ PARAPET SCALE : 6"=1'-0" 5

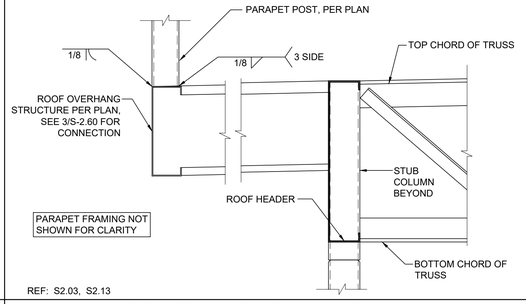


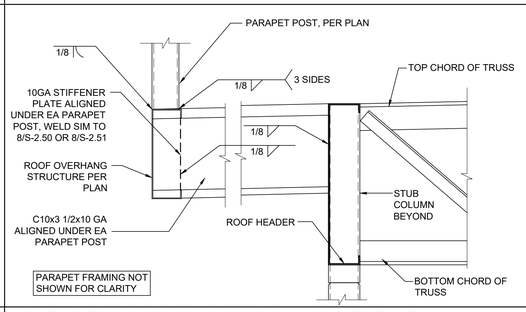

REF: S2.03, S2.13




REF: S2.03, S2.13




REF: S2.03, S2.13




IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING DETAILS
## PARAPET

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

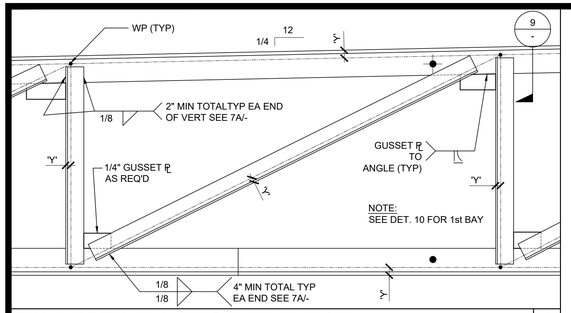
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29075 STRUCTURAL STATE OF CALIFORNIA

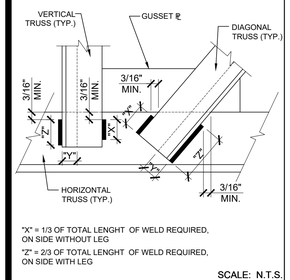
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-2.70




TYP. VERTICAL & DIAGONAL (U.N.O.) SCALE: 1 1/2" = 1' - 0" | 6

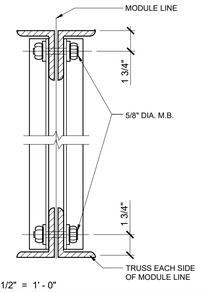



"X" = 1/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITHOUT LEG

"Z" = 2/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITH LEG

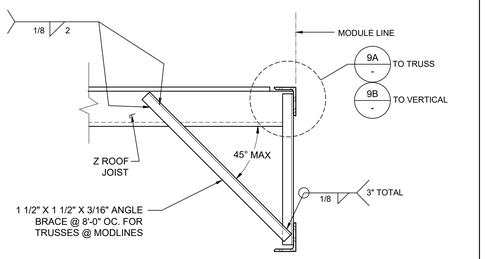
SCALE: N.T.S.

FILLET WELD TERMINATION | 7A

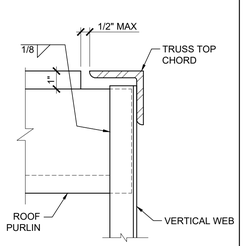



SCALE: 1 1/2" = 1' - 0"

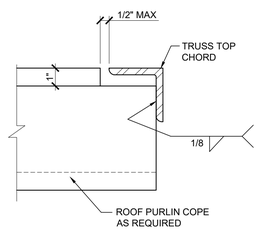
CONNECTION @ MODULE LINE | 7




BRACE @ TRUSS & MATING LINE SCALE: 1 1/2" = 1' - 0" | 8

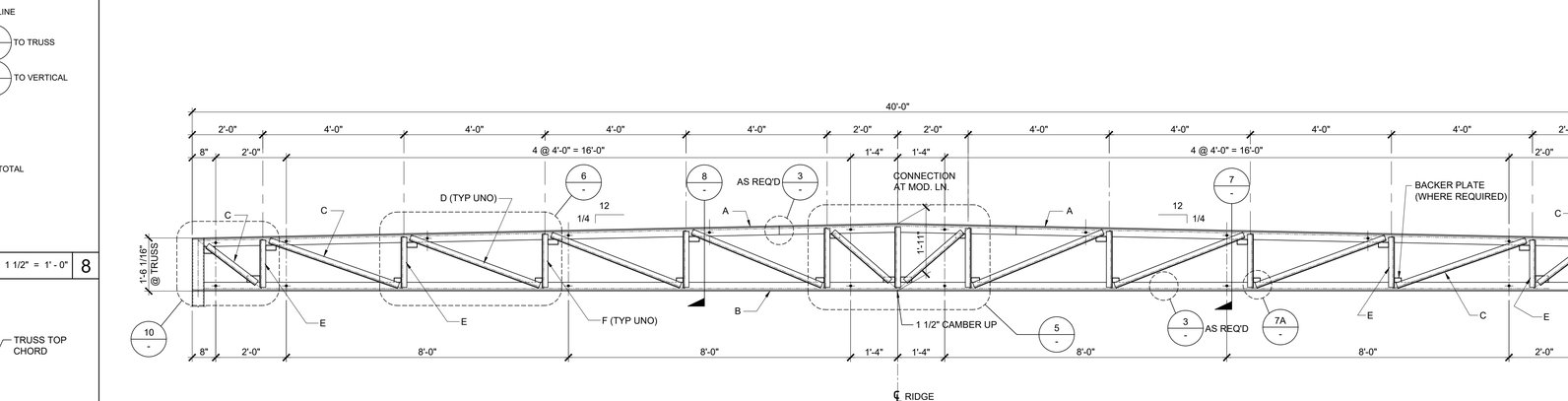



SCALE: 3" = 1' - 0"




PURLIN TO VERT. ANGLE CONN. | 9B

PURLIN TO TRUSS CONN. SCALE: 3"=1'- 0" | 9A




MONO SLOPE TRUSS SCALE: 1/2" = 1' - 0" | 1

NOTES:

1. SEE SHEET S-0.1 FOR STEEL GRADES.
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
4. BOLTS AND NUTS GRADES TO BE A307

REF: ROOF FRAMING PLAN

| TRUSS MARK: | | | Y= |
|---|---|---|---|
| A | TOP CHORD | 4" x 4" x 3/8" (LLV) | 1 1/4 |
| B | BOTTOM CHORD | 4" x 4" x 3/8" (LLV) | 1 1/4 |
| C | END DIAGONALS (2 EACH END) | 2" x 2" x 10 GA. | 9/16 |
| D | TYPICAL DIAGONALS | 1 1/2" x 1 1/2" x 10 GA. | 7/16 |
| E | END VERTICAL (2 EACH END) | 1 1/2" x 1 1/2" x 10 GA. | 7/16 |
| F | TYPICAL VERTICALS | 1 1/2" x 1 1/2" x 10 GA. | 7/16 |

NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT




NOTES:

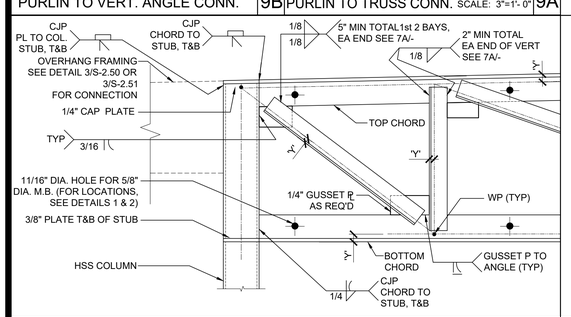
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2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
4. BOLTS AND NUTS GRADES TO BE A307

REF: ROOF FRAMING PLAN

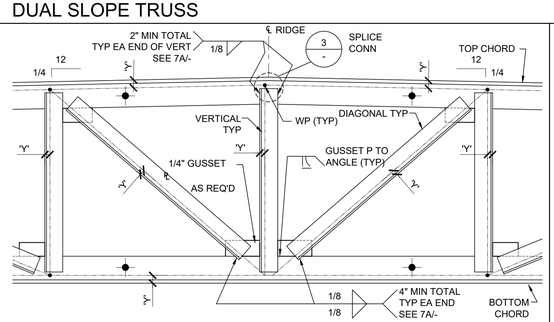
| TRUSS MARK: | | | Y= |
|---|---|---|---|
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| B | BOTTOM CHORD | 4" x 4" x 3/8" (LLV) | 1 1/4 |
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| F | TYPICAL VERTICALS | 1 1/2" x 1 1/2" x 10 GA. | 7/16 |

NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

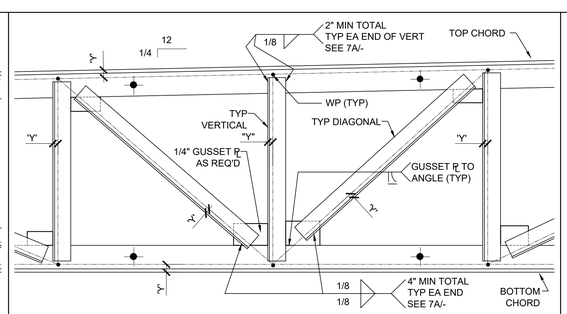
DUAL SLOPE TRUSS SCALE: 1/2" = 1' - 0" | 2



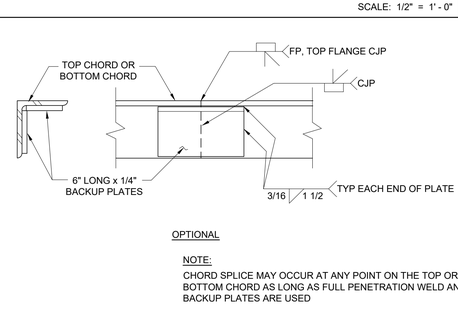

TRUSS TO COLUMN / OH FRAME CONN. SCALE: 1 1/2" = 1' - 0" | 10




VERT. & DIAG. AT MID-POINT SCALE: 1 1/2" = 1' - 0" | 5




VERT. & DIAG. AT MID- POINT SCALE: 1 1/2" = 1' - 0" | 4




OPTIONAL

NOTE:

CHORD SPLICE MAY OCCUR AT ANY POINT ON THE TOP OR BOTTOM CHORD AS LONG AS FULL PENETRATION WELD AND BACKUP PLATES ARE USED

TRUSS CHORD SPLICE SCALE: 3" = 1' - 0" | 3

IDENTIFICATION STAMP
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APP: 03-123590 INC:
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PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING DETAILS
## TRUSS

REVISIONS
02/27/2026 BID SET
2
3
4
5

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

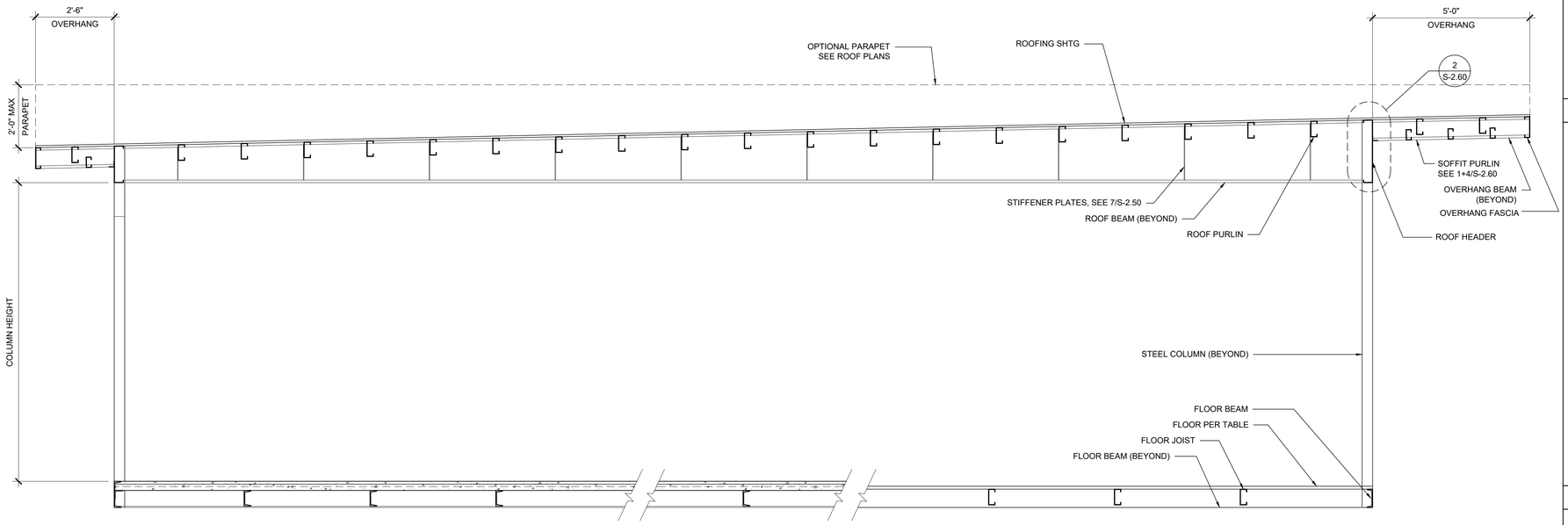
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

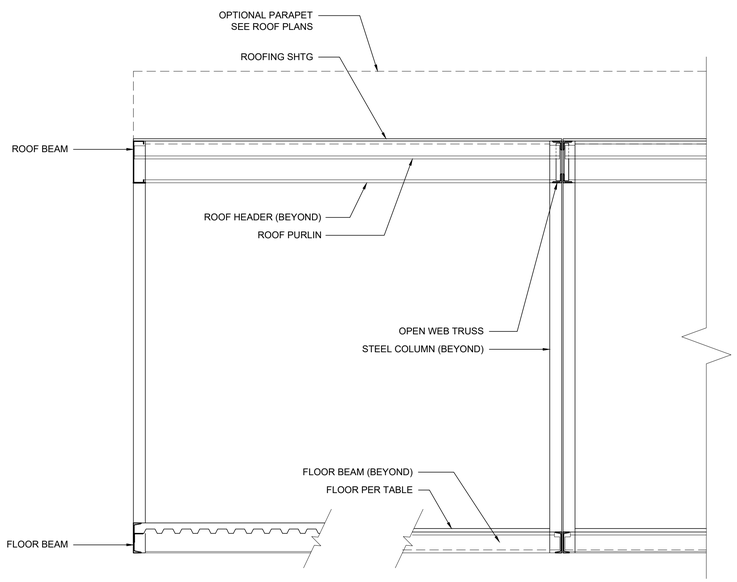
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-2.90



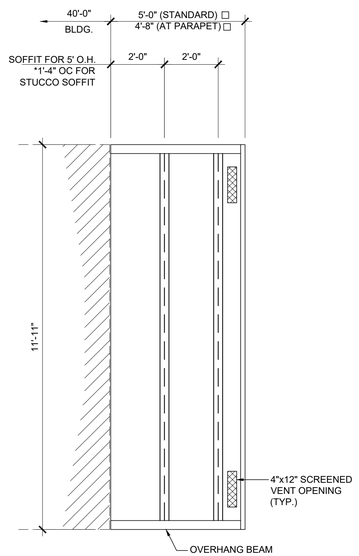

BUILDING SECTION

SCALE: 1/2" = 1'-0" | 1




BUILDING SECTION

SCALE: 1/2" = 1'-0" | 3




ENCL. SOFFIT PLAN-OPT.

SCALE: 3/8" = 1'-0" | 2

## NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

## FLOOR CONSTRUCTION

- ☐ WOOD FLOOR
- ☐ CONCRETE FLOOR

## HSS COLUMN SCHEDULE

| COLUMN HEIGHT | NO PARAPET | ROOF W/ PARAPET |
|---|---|---|
| ☐ 9'-0" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |
| ☐ 9'-6" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |
| ☐ 10'-0" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |
| ☐ 10'-6" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |

### FLOOR BEAM

C7x9.8 (TYP) PERIMETER BEAM FOR WOOD FLOOR
✶ C9x13.4 PERIMETER BEAM FOR WOOD FLOOR
C10x15.3 TYP. PERIMETER BEAM FOR CONCRETE FLOOR

IDENTIFICATION STAMP
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PROJECT NAME:

SHEET TITLE:

# BUILDING SECTIONS
## MONO SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

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CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

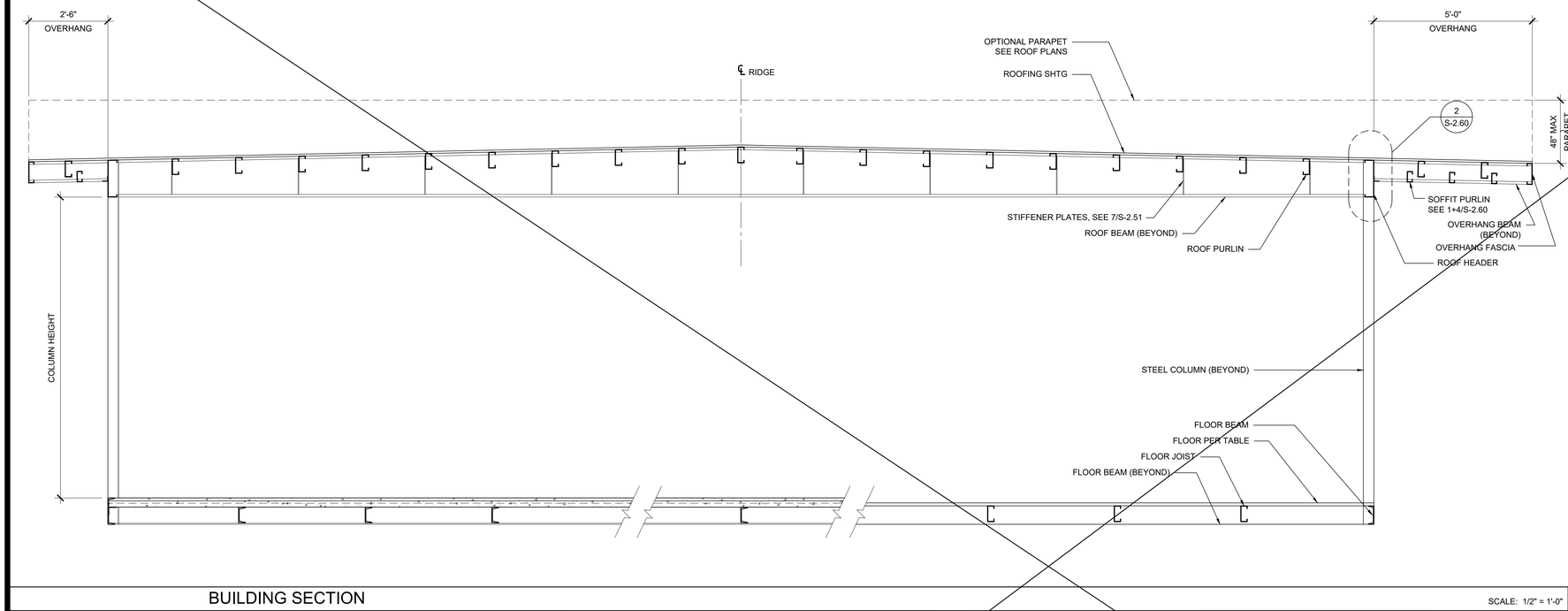
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2470 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

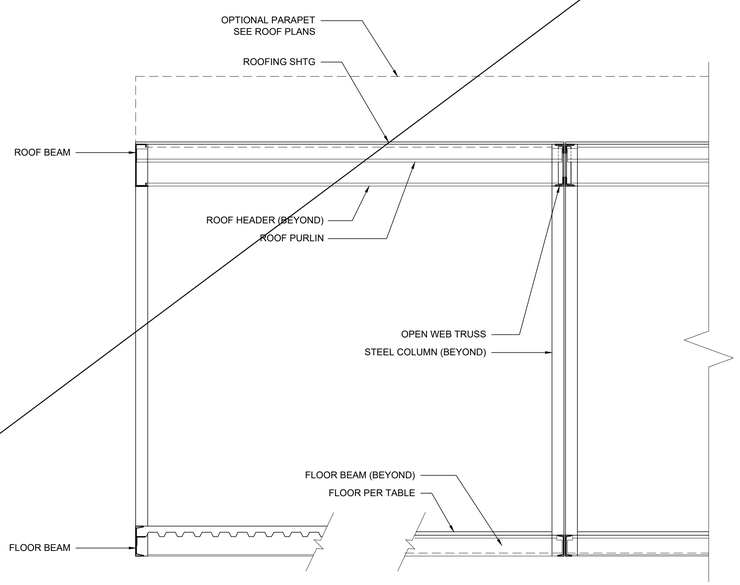
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|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

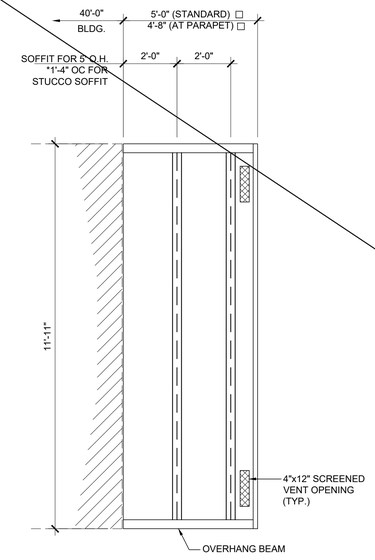
S-3.01




BUILDING SECTION — SCALE: 1/2" = 1'-0" — 1




BUILDING SECTION — SCALE: 1/2" = 1'-0" — 3




ENCL. SOFFIT PLAN-OPT. — SCALE: 3/8" = 1'-0" — 2

## NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

## FLOOR CONSTRUCTION

- ☐ WOOD FLOOR
- ☐ CONCRETE FLOOR

## HSS COLUMN SCHEDULE

| COLUMN HEIGHT | NO PARAPET | ROOF W/ PARAPET |
|---|---|---|
| ☐ 9'-0" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |
| ☐ 9'-6" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |
| ☐ 10'-0" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |
| ☐ 10'-6" | ☐ 6 x 6 x 1/4 | ☐ 6 x 6 x 1/4 ✶ |

### FLOOR BEAM

C7x9.8 (TYP) PERIMETER BEAM FOR WOOD FLOOR
✶ C9x13.4 PERIMETER BEAM FOR WOOD FLOOR
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PROJECT NAME:

SHEET TITLE:

# BUILDING SECTIONS
## DUAL SLOPE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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IDENTIFICATION STAMP
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

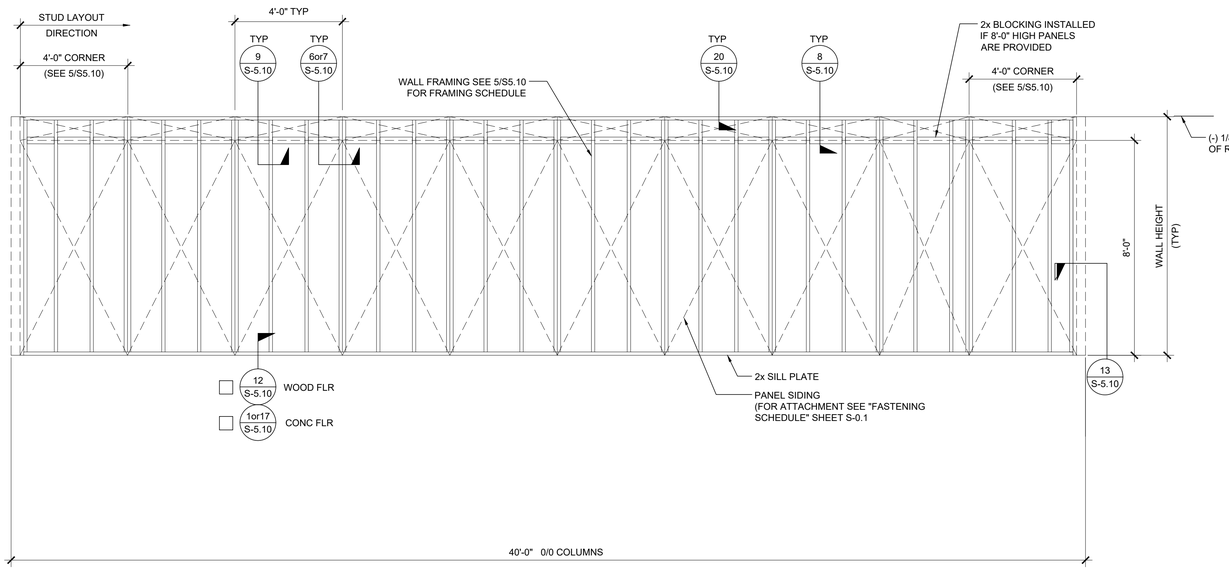
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUP
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

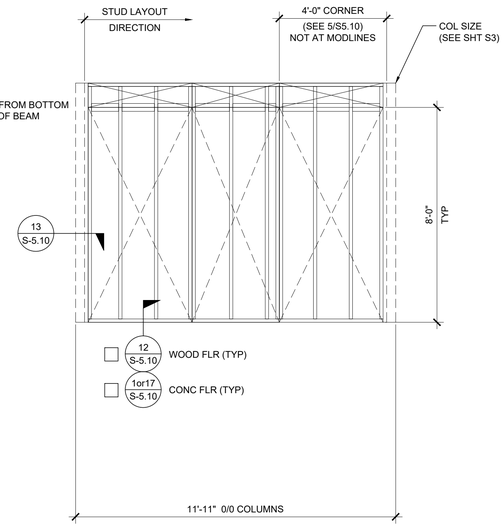
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|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

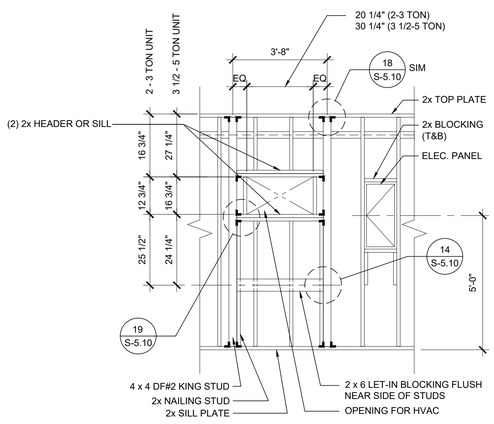
S-3.02



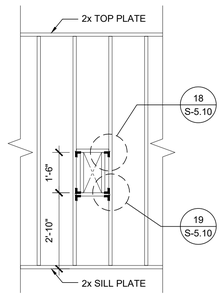

## TYPICAL SIDE WALL



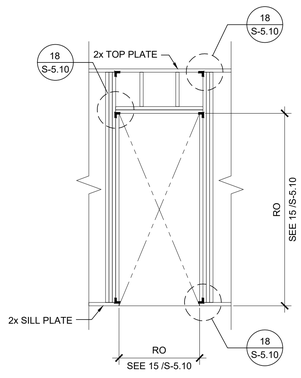

## TYPICAL END WALL



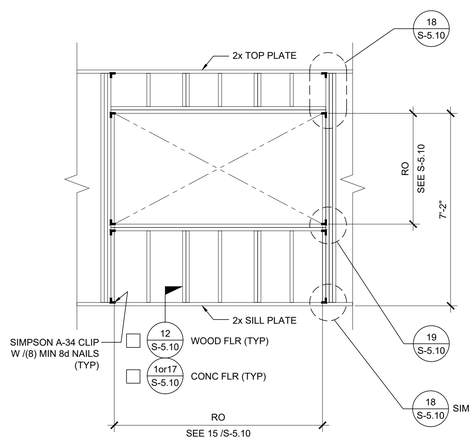

## TYPICAL HVAC




## FIRE EXTINGUISHER CABINET BLOCKOUT




## TYPICAL DOOR




## TYPICAL WINDOW

## NOTES

## WALL HEIGHT SCHEDULE

| COLUMN HEIGHT | 9'-0" | 9'-6" | 10'-0" | 10'-6" |
|---|---|---|---|---|
| CONCRETE FLOOR | 8'-11 7/8" | 9'-5 7/8" | 9'-11 7/8" | 10'-5 7/8" |
| WOOD FLOOR | 8'-10 3/4" | 9'-4 3/4" | 9'-10 3/4" | 10'-4 3/4" |

NOTE:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (MIN).
EXCEPTION: UNCONDITIONED RESTROOM MODULES MAY UTILIZE 2x4 FRAMING.

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PROJECT NAME:

SHEET TITLE:

# WALL FRAMING ELEVATIONS
## WOOD STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

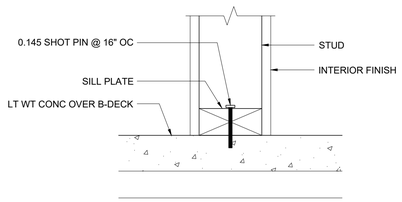
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

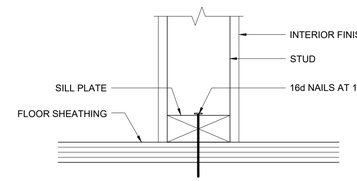
SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

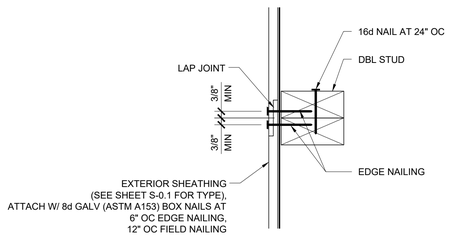
P.C. SHEET NUMBER
S-5.00



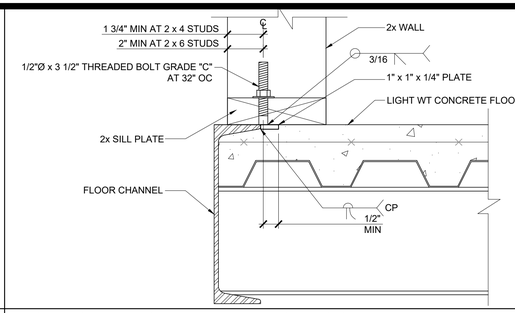

## PARTITION CONNECTION AT CONC FLOOR
SCALE : 3"=1'-0" | 16



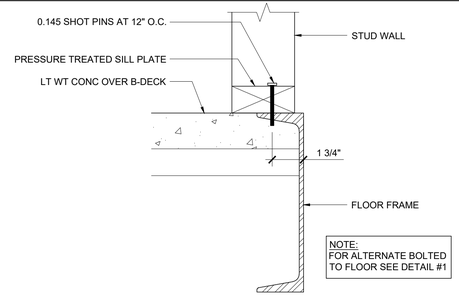

## PARTITION CONNECTION AT WOOD FLOOR
SCALE : 3"=1'-0" | 11



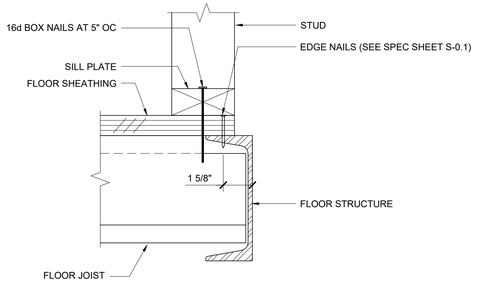

## VERTICAL SHEATHING LAP JOINT
SCALE : 3"=1'-0" | 6



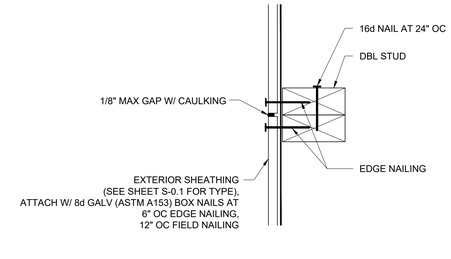

## OPTIONAL BOLTED WALL TO FLOOR
SCALE : NTS | 1



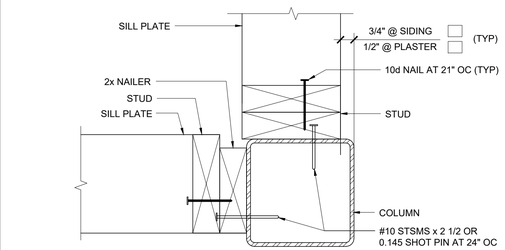

## WALL SILL AT CONCRETE FLOOR
SCALE : 3"=1'-0" | 17




## WALL SILL AT WOOD FLOOR
SCALE : 3"=1'-0" | 12



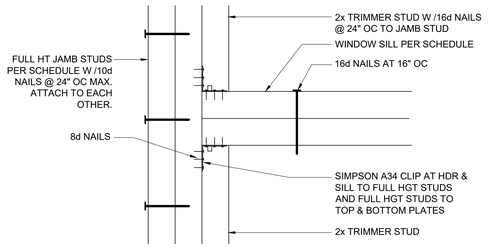

## VERTICAL SHEATHING BUTT JOINT
SCALE : 3"=1'-0" | 7



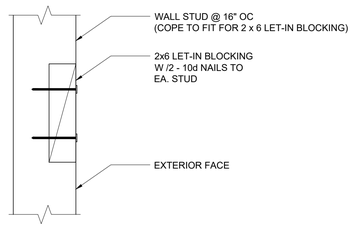

## COLUMN AT ENDWALL (2x6)
SCALE : 3"=1'-0" | 2

| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| LESS THAN 9'-6" | 3070 | NO PLASTER | (1) | 2X4 | HF | #2 | | N/A | | | (2) | 2X4 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | | N/A | | | (2) | 2X4 | DF | #2 |
| | | PLASTER | (2 | 2X4 | DF | #2 | | N/A | | | (3) | 2X4 | DF | #2 |
| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| 9'-6" TO 10'-6" | 3070 | NO PLASTER | (1) | 2X4 | HF | #2 | | N/A | | | (2) | 2X4 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | | N/A | | | (2) | 2X4 | DF | #2 |

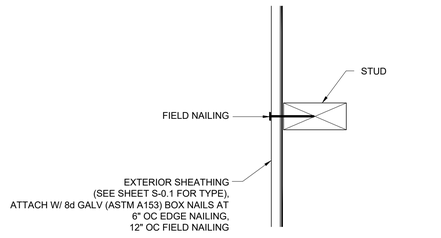
NOTE:
OPENINGS LARGER THAN 3'x7' ARE NOT PERMITTED IN 2x4 WALLS WITH PLASTER FINISH.




## WINDOW SILL AND JAMB
SCALE : 3"=1'-0" | 19




## LET-IN BLOCK ATTACHMENT
SCALE : 3"=1'-0" | 14

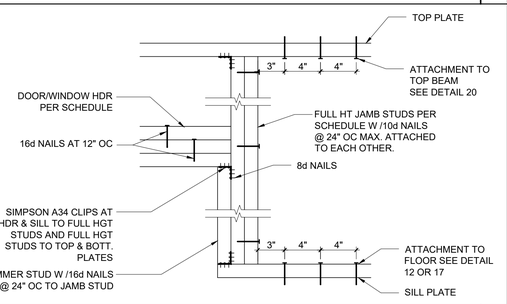



## SECTION AT SHEATHING TO STUD ATTACHMENT
SCALE : 3"=1'-0" | 9

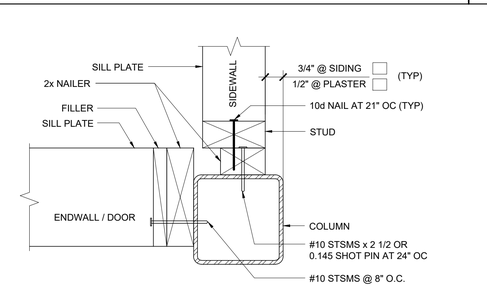
| COLUMN HEIGHT | EXT FINISH | WOOD WALL FRAMING | | | | | 4" CORNER OF WOOD WALL FRAMING (ZONE 5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUMBER | SIZE | LUMBER | TYPE | OC | NUMBER | SIZE | LUMBER | TYPE | OC |
| LESS THAN 9'-6" | NO PLASTER | (1) | 2X4 | HF | #2 | 16" OC | (1) | 2X4 | HF | #2 | 16" OC |
| | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | 16" OC | (1) | 2X4 | DF | #2 | 16" OC |
| | PLASTER | (1) | 2X4 | DF | #2 | 16" OC | (1) | 2X4 | DF | #2 | 10" OC |
| 9'-6" TO 10'-6" | NO PLASTER | (1) | 2X4 | HF | #2 | 16" OC | (1) | 2X4 | HF | #2 | 12" OC |
| | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | 16" OC | (1) | 2X4 | DF | #2 | 16" OC |

NOTES:
1. 2X4 WALL FRAMING NOT PERMITTED FOR STUCCO FINISH WALLS OVER 9'-0" TALL
2. 2X4 EXTERIOR WALL FRAMING IS ONLY PERMITTED AT UNCONDITIONED RESTROOM MODULES
3. 2X4 INTERIOR WALLS SHALL BE HF #2 (OR BETTER) AND SHALL BE SPACED NOT MORE THAN 24" OC MAX

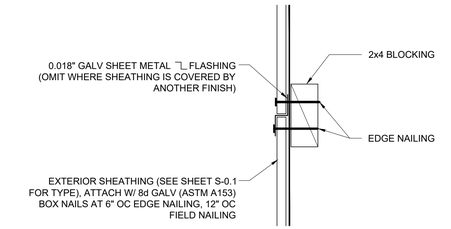
## 2x4 WALL FRAMING SCHEDULE
5



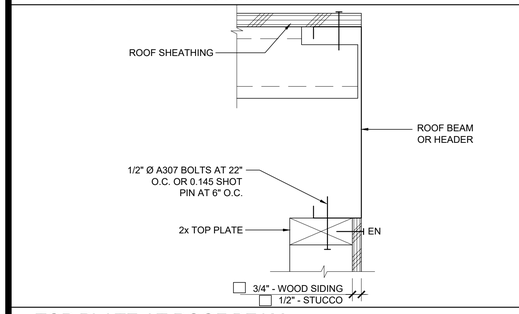

## DOOR/WINDOW HEADER AND JAMB
SCALE : 1 1/2"=1'-0" | 18




## COLUMN AT ENDWALL (2x4)
SCALE : 3"=1'-0" | 13

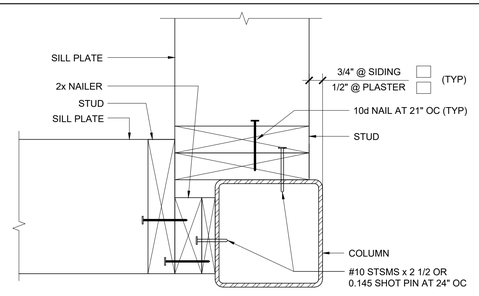



## HORIZONTAL SHEATHING JOINT
SCALE : 3"=1'-0" | 8




## TOP PLATE AT ROOF BEAM
SCALE : 3" = 1'-0" | 20

## NOT USED
15




## COLUMN AT ENDWALL (2x8)
SCALE : 3"=1'-0" | 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WALL FRAMING DETAILS
## WOOD STUDS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

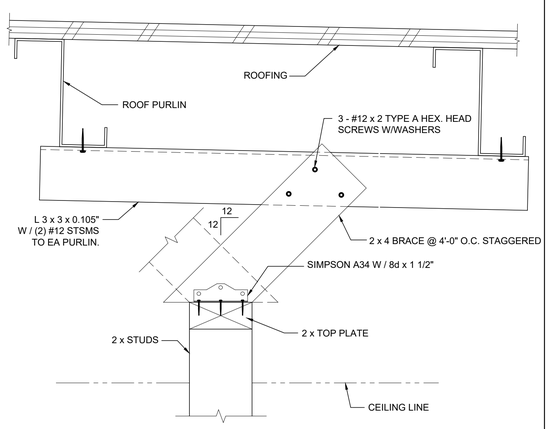
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLA
2025
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

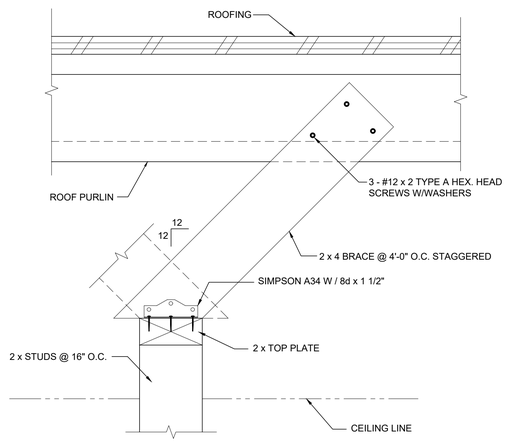
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-5.10



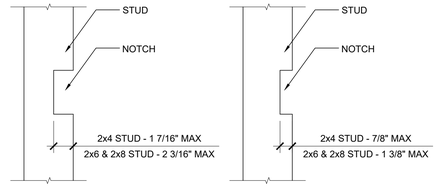

## INTERIOR PARTITION

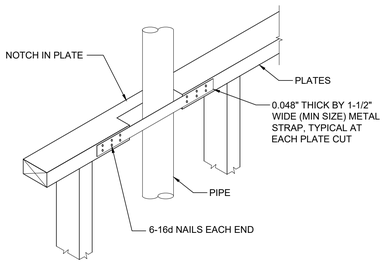
SCALE : 3" = 1'-0" | 14




## INTERIOR PARTITION

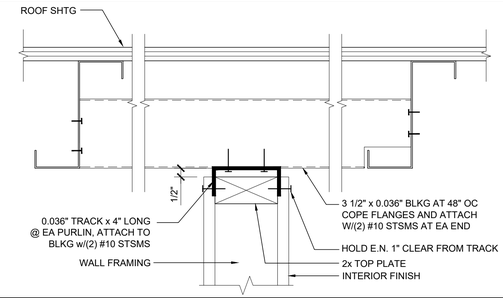
SCALE : 3" = 1'-0" | 12



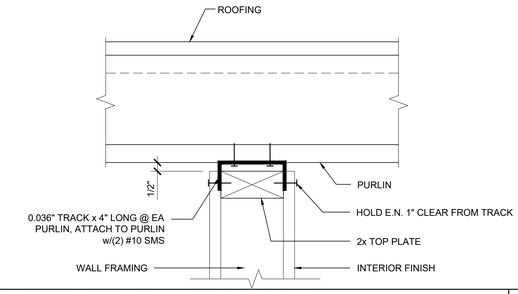

## CUTTING AND NOTCHING

SCALE : 1 1/2" = 1'-0" | 7




## FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" | 1




## FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" | 2

| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| UP TO 10'-6" | 3070 | ANY | (1) | 2X6 | HF | #2 | | N/A | | | (1) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | | N/A | | | (1) | 2X6 | DF | #2 |
| | 4070 | ANY | (1) | 2X6 | HF | #2 | | N/A | | | (1) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | | N/A | | | (1) | 2X6 | DF | #2 |
| | 6040 | ANY | (1) | 2X6 | HF | #2 | (1) | 2X6 | HF | #2 | (2) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | (1) | 2X6 | DF | #2 | (2) | 2X6 | DF | #2 |
| | 8040 | ANY | (1) | 2X6 | HF | #2 | (1) | 2X6 | HF | #2 | (2) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | (1) | 2X6 | DF | #2 | (2) | 2X6 | DF | #2 |

## 2x6 OPENING STUDS SCHEDULE

19

| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| UP TO 10'-6" | 3070 | NO PLASTER | (1) | 2X8 | HF | #2 | | N/A | | | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | | N/A | | | (1) | 2X8 | DF | #2 |
| | 4070 | NO PLASTER | (1) | 2X8 | HF | #2 | | N/A | | | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | | N/A | | | (1) | 2X8 | DF | #2 |
| | 6040 | NO PLASTER | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 |
| | 8040 | NO PLASTER | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 |

## 2x8 OPENING STUDS SCHEDULE

14

| COLUMN HEIGHT | EXT FINISH | WOOD WALL FRAMING | | | | | 4" CORNER OF WOOD WALL FRAMING (ZONE 5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUMBER | SIZE | LUMBER | TYPE | OC | NUMBER | SIZE | LUMBER | TYPE | OC |
| UP TO 10'-6" | NO PLASTER | (1) | 2X6 | HF | #2 | 16" OC | (1) | 2X6 | HF | #2 | 16" OC |
| | NO PLASTER (OPT) | (1) | 2X6 | DF | #2 | 16" OC | (1) | 2X6 | DF | #2 | 16" OC |
| | W/ PLASTER | (1) | 2X6 | HF | #2 | 16" OC | (1) | 2X6 | HF | #2 | 16" OC |
| | W/ PLASTER (OPT) | (1) | 2X6 | DF | #2 | 16" OC | (1) | 2X6 | DF | #2 | 16" OC |

NOTE:
1. INTERIOR WALLS MAY BE 2x6 HF #2 (OR BETTER) SPACED AT NOT MORE THAN 24" OC.

## 2x6 WALL FRAMING SCHEDULE

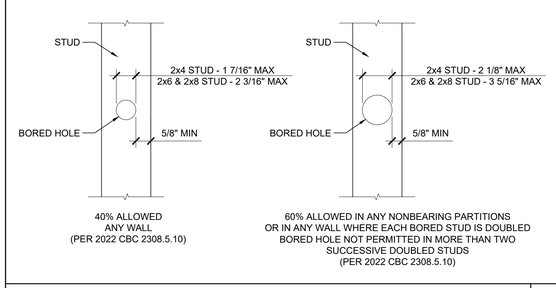
20

| COLUMN HEIGHT | EXT FINISH | WOOD WALL FRAMING | | | | | 4" CORNER OF WOOD WALL FRAMING (ZONE 5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUMBER | SIZE | LUMBER | TYPE | OC | NUMBER | SIZE | LUMBER | TYPE | OC |
| UP TO 10'-6" | NO PLASTER | (1) | 2X8 | HF | #2 | 16" OC | (1) | 2X8 | HF | #2 | 16" OC |
| | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | 16" OC | (1) | 2X8 | DF | #2 | 16" OC |
| | W/ PLASTER | (1) | 2X8 | HF | #2 | 16" OC | (1) | 2X8 | HF | #2 | 16" OC |
| | W/ PLASTER (OPT) | (1) | 2X8 | DF | #2 | 16" OC | (1) | 2X8 | DF | #2 | 16" OC |

NOTES:
1. EXTERIOR STUD SPACING SHOWN IN THE TABLE ABOVE IS TYPICAL, HOWEVER, 2x8 STUDS (HF #2 OR BETTER) MAY BE SPACED AT NOT MORE THAN 24" OC.
2. INTERIOR WALLS MAY BE 2x6 HF #2 (OR BETTER) SPACED AT NOT MORE THAN 24" OC.

## 2x8 WALL FRAMING SCHEDULE

15




## BORED HOLES

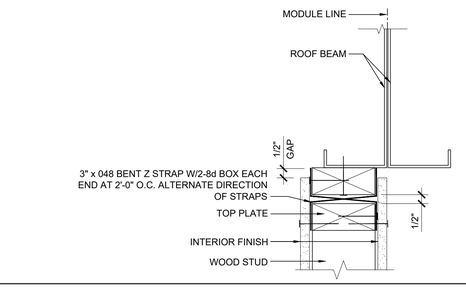
SCALE : 1 1/2" = 1'-0" | 8

## NOT USED

9

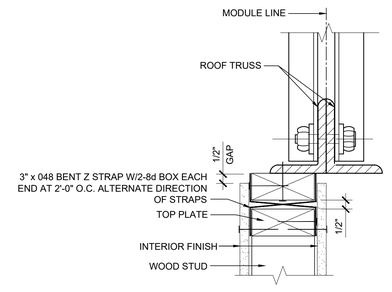
## NOT USED

10




## INTERIOR PARTITION WALL TO ROOF BEAM

SCALE : 3"=1'-0" | 3




## INTERIOR PARTITION WALL TO ROOF TRUSS

SCALE : 3"=1'-0" | 4

## NOT USED

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# WALL FRAMING DETAILS
## WOOD STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

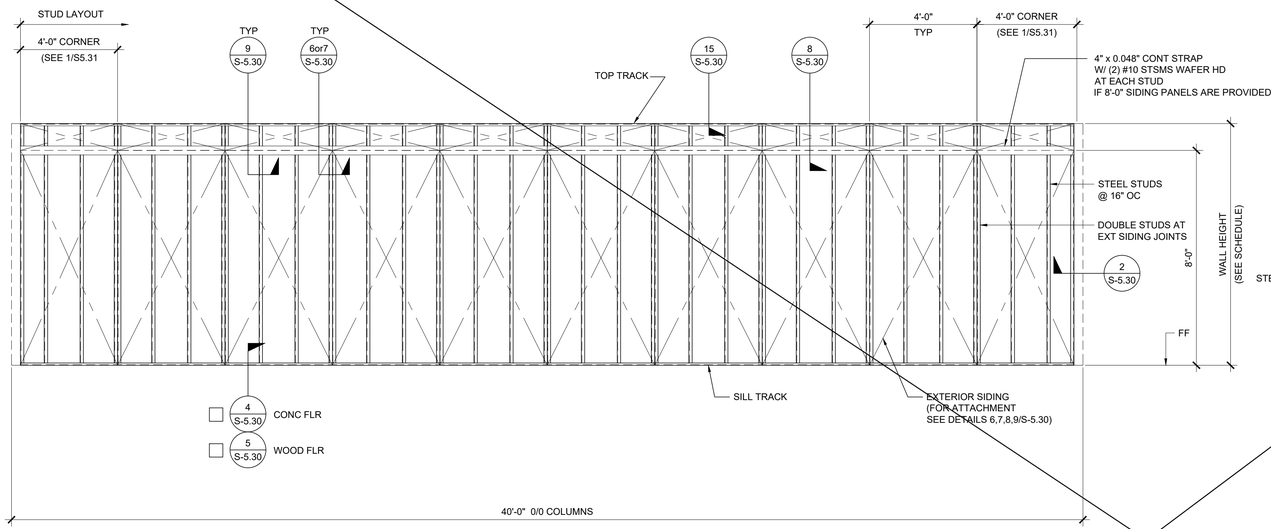
MODULAR BUILDING DESIGN PROFESSIONAL

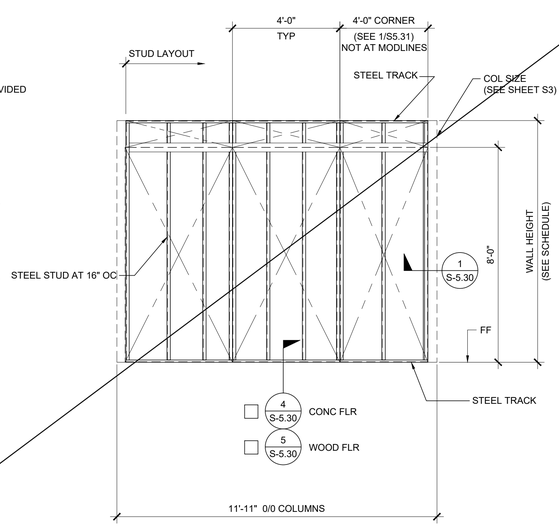
REGISTERED PROFESSIONAL ENGINEER JOHN W STARUCH 24575 STRUCTURAL STATE OF CALIFORNIA

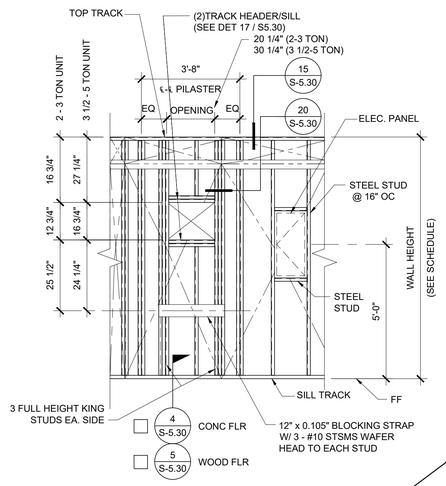
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

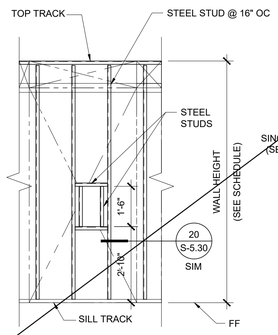
P.C. SHEET NUMBER
S-5.11



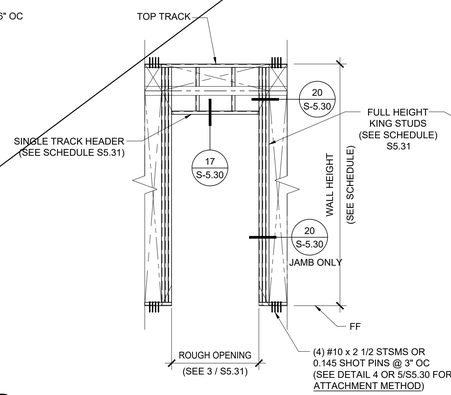



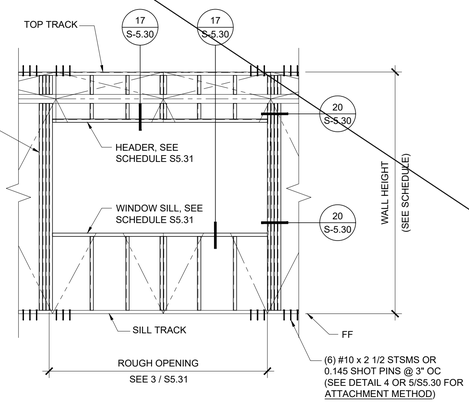

TYPICAL HVAC




FIRE EXTINGUISHER
CABINET BLOCKOUT




TYPICAL DOOR




TYPICAL WINDOW

## NOTES

1. ALL STEEL SECTION STUDS CONFORM TO ASTM A446 GALVANIZED SHEETS HAVE BASE METAL THICKNESS AS INDICATED WITH COATING PER ASTM A525. (REFER TO DETAIL 18/S-5.30 FOR PROPERTIES)
2. FOR TRACK SPLICE DETAIL, SEE 19/S5.30

## WALL HEIGHT SCHEDULE

| COLUMN HEIGHT | ☐ 9'-0" | ☐ 9'-6" | ☐ 10'-0" | ☐ 10'-6" |
|---|---|---|---|---|
| ☐ CONCRETE FLOOR | 8'-11 7/8" | 9'-5 7/8" | 9'-11 7/8" | 10'-5 7/8" |
| ☐ WOOD FLOOR | 8'-10 3/4" | 9'-4 3/4" | 9'-10 3/4" | 10'-4 3/4" |

NOTE:
ALL EXTERIOR WALL FRAMING SHALL BE 5.5" (MIN).
EXCEPTION: UNCONDITIONED RESTROOM MODULES MAY UTILIZE 3.5" FRAMING.

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DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# WALL FRAMING ELEVATIONS
## STEEL STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUCH
24575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

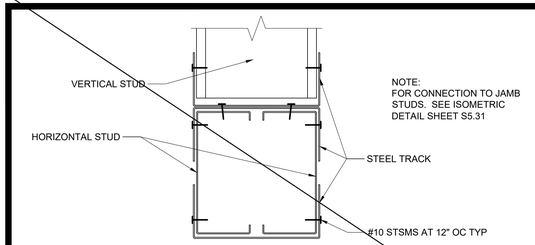
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| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

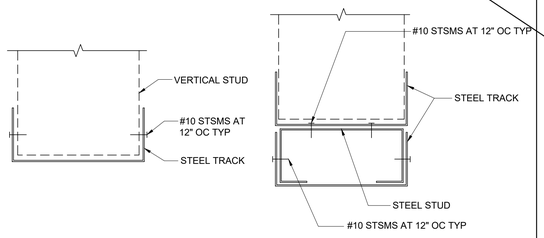
S-5.20

FRAMING ELEVATIONS

SCALE: 3/8" = 1' - 0" | 1



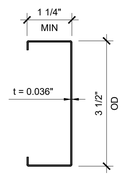

3 -TRACK HEADER




ONE TRACK HEADER

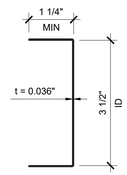
TWO TRACK HEADER

TYPICAL OPENING SILL AND HEADER SECTION SCALE : 6"=1'-0" | 17




A = 0.215 IN$^2$
Sx = 0.211 IN$^3$
Ix = 0.394 IN$^4$

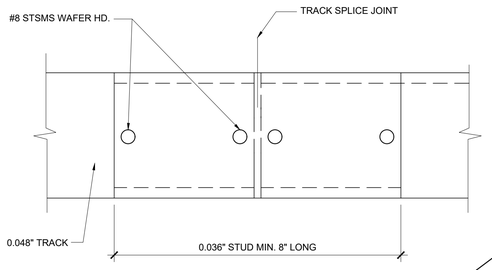
STUD



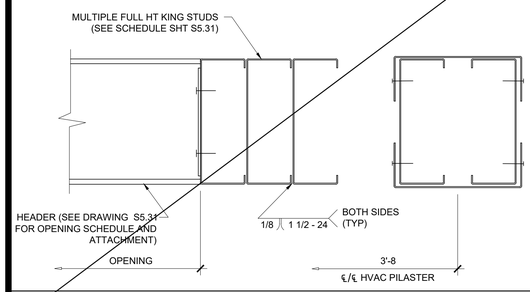

A = 0.212 IN$^2$
Sx = 0.172 IN$^3$
Ix = 0.363 IN$^4$

TRACK

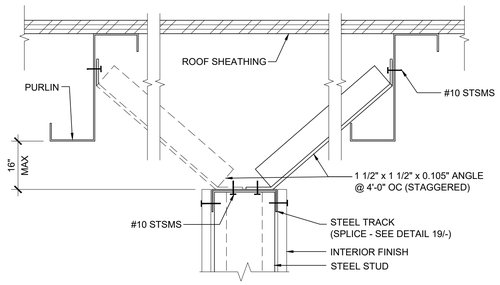
STUD AND TRACK SCALE : 6"=1'-0" | 18



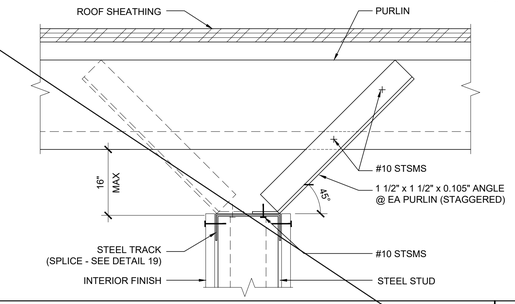

TOP TRACK SPLICE DETAIL SCALE : 6" = 1'-0" | 19



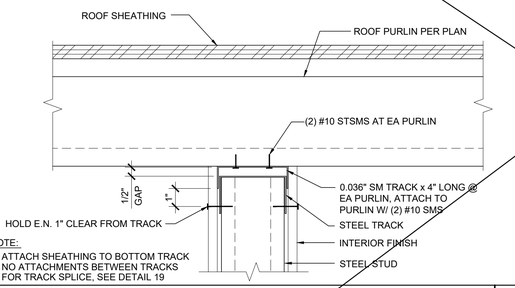

JAMB, SILL OR HEADER CONNECTIONS SCALE : 6"=1'-0" | 20



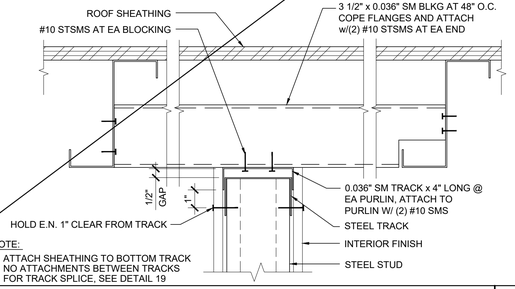

INTERIOR PARTITION - BETW. PURLINS SCALE : 3"=1'-0" | 11



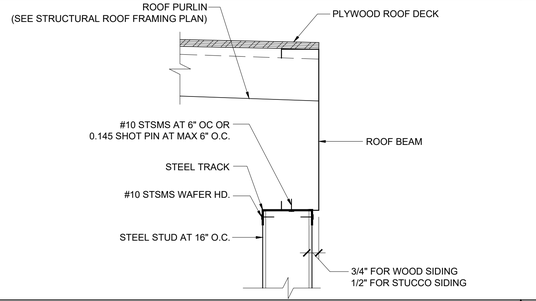

INTERIOR PARTITION SCALE : 3"=1'-0" | 12



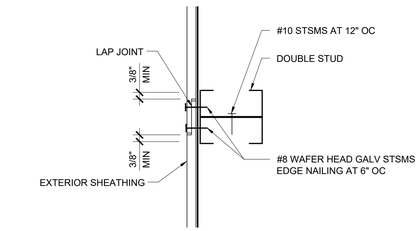

FULL INTERIOR PARTITION - UNDER PURLINS SCALE : 3"=1'-0" | 13



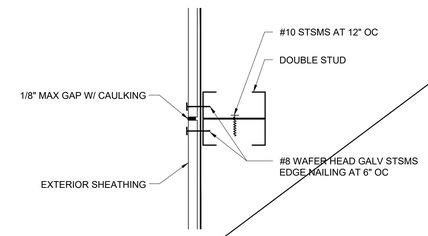

FULL INTERIOR PARTITION - BETW. PURLINS SCALE : 3"=1'-0" | 14



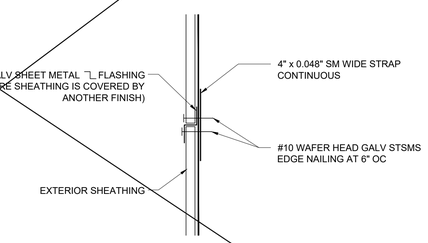

EXTERIOR WALL TO ROOF BEAM SCALE : 1 1/2" = 1'-0" | 15



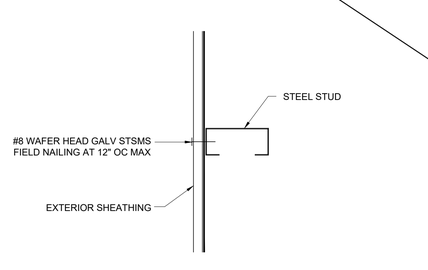

VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" | 6



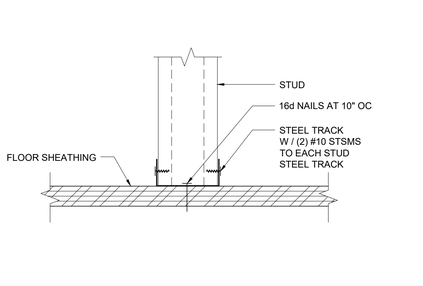

VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" | 7



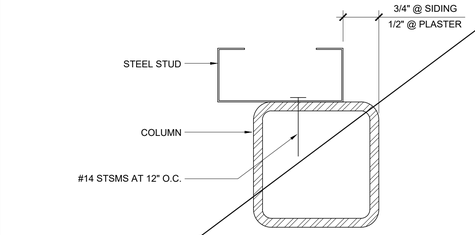

HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" | 8



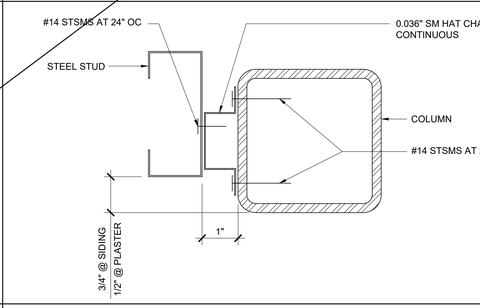

SECTION AT STUD SCALE : 3"=1'-0" | 9



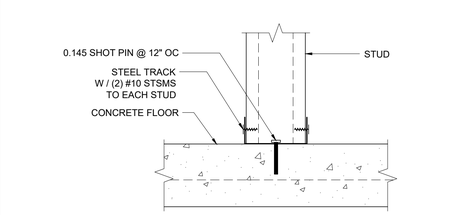

PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" | 10



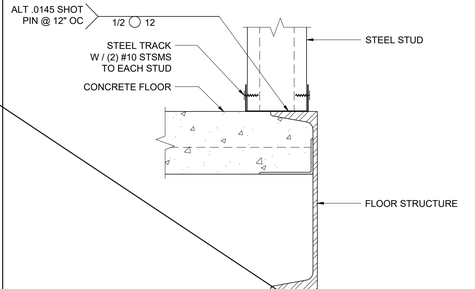

COLUMN AT ENDWALL SCALE : 6"=1'-0" | 1



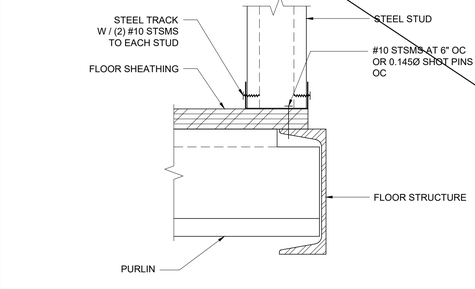

COLUMN AT SIDEWALL SCALE : 6"=1'-0" | 2




PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" | 3




WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" | 4




WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" | 5

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DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# WALL FRAMING DETAILS
## STEEL STUDS

REVISIONS
02/27/2026 BID SET
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4
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

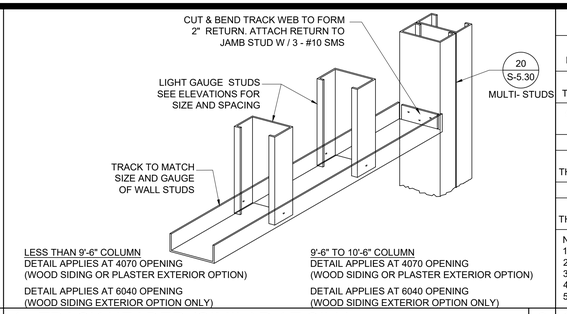
P.C. SHEET NUMBER

S-5.30

16

11

## 1 - TRACK HEADER (SIMILAR AT SILL)




LESS THAN 9'-6" COLUMN
DETAIL APPLIES AT 4070 OPENING
(WOOD SIDING OR PLASTER EXTERIOR OPTION)

DETAIL APPLIES AT 6040 OPENING
(WOOD SIDING EXTERIOR OPTION ONLY)

9'-6" TO 10'-6" COLUMN
DETAIL APPLIES AT 4070 OPENING
(WOOD SIDING OR PLASTER EXTERIOR OPTION)

DETAIL APPLIES AT 6040 OPENING
(WOOD SIDING EXTERIOR OPTION ONLY)

6

## STEEL WALL FRAMING SCHEDULE

1

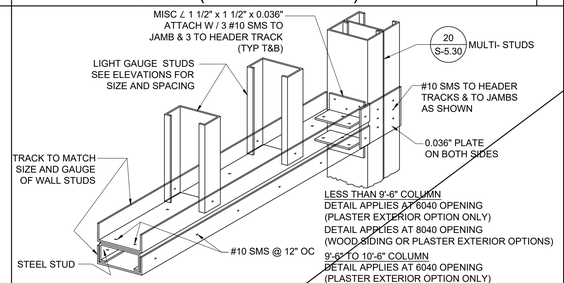
| WALL HEIGHT | EXT FINISH | STEEL WALL FRAMING NO. | STEEL WALL FRAMING SIZE | STEEL WALL FRAMING OC | 4' CORNER OF STEEL WALL FRAMING (ZONE 5) NO. | 4' CORNER OF STEEL WALL FRAMING (ZONE 5) SIZE | 4' CORNER OF STEEL WALL FRAMING (ZONE 5) OC |
|---|---|---|---|---|---|---|---|
| LESS THAN 9'-6" | NO PLASTER | (1) | 350S162-33 | 16" OC | (1) | 350S162-33 | 16" OC |
| | W/ PLASTER | (1) | 350S162-33 | 16" OC | (1) | 350S162-33 | 12" OC |
| 9'-6" TO 10'-6" | NO PLASTER | (1) | 350S162-33 | 16" OC | (1) | 350S162-33 | 16" OC |
| | W/ PLASTER | (1) | 350S162-33 | 12" OC | (2) | 350S162-33 | 12" OC |
| | | | | | | | |
| LESS THAN 10'-6" | NO PLASTER | (1) | 550S162-33 | 16" OC | (1) | 550S162-33 | 16" OC |
| | W/ PLASTER | (1) | 550S162-33 | 16" OC | (1) | 550S162-33 | 16" OC |
| | | | | | | | |
| LESS THAN 10'-6" | NO PLASTER | (1) | 750S162-33 | 16" OC | (1) | 750S162-33 | 16" OC |
| | W/ PLASTER | (1) | 750S162-33 | 16" OC | (1) | 750S162-33 | 16" OC |

NOTES:
1. INTERIOR FRAMING SHALL BE 350S162-33 SPACED AT NOT LESS THAN 24" O.C.
2. TOP AND BOTTOM TRACKS SHALL BE xxxT150-33 WHERE "xxx" MATCHES THE STUD WIDTH
3. 600S162-33 STUDS MAY BE USED IN LIEU OF 550S162-33 STUDS
4. 800S162-33 STUDS MAY BE USED IN LIEU OF 750S162-33 STUDS
5. 350S162-33 EXTERIOR FRAMING SHALL ONLY BE USED AT UNCONDITIONED RESTROOM MODULES

17

12

## 2 - TRACK HEADER (SIMILAR AT SILL)




LESS THAN 9'-6" COLUMN
DETAIL APPLIES AT 6040 OPENING
(PLASTER EXTERIOR OPTION ONLY)
DETAIL APPLIES AT 8040 OPENING
(WOOD SIDING OR PLASTER EXTERIOR OPTIONS)

9'-6" TO 10'-6" COLUMN
DETAIL APPLIES AT 6040 OPENING
(PLASTER EXTERIOR OPTION ONLY)
DETAIL APPLIES AT 8040 OPENING
(WOOD SIDING OR PLASTER EXTERIOR OPTIONS)

7

## STEEL WALL OPENING SUPPORTS

2

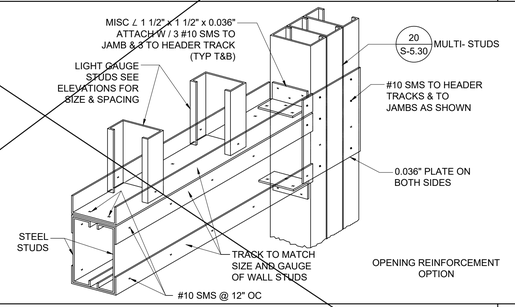
| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER NO. | HEADER SIZE | SILL NO. | SILL SIZE | SILL TYPE | FULL HEIGHT KING STUD NO. | FULL HEIGHT KING STUD SIZE |
|---|---|---|---|---|---|---|---|---|---|
| 10'-6" OR LESS | 4070 | NO PLASTER | (1) | 350T150-33 | | N/A | | (2) | 350S162-33 |
| | | W/ PLASTER | (1) | 350T150-33 | | N/A | | (2) | 350S162-33 |
| | 4070 | ANY | (1) | 550T150-33 | | N/A | | (1) | 550S162-33 |
| | 6040 | ANY | (2) | 550T150-33 | (2) | 3.5 x 1.25 x 036 | TRACK | (2) | 550S162-33 |
| | 8040 | ANY | (2) | 550T150-33 | (2) | 3.5 x 1.25 x 036 | STUD | (2) | 550S162-33 |

NOTES:
1. 550S162-33 STUDS MAY BE REPLACED WITH LARGER STUDS TO MATCH THE WALL FRAMING SIZE.
2. 550T150-33 TRACKS MAY BE REPLACED WITH LARGER TRACKS TO MATCH THE WALL FRAMING SIZE.

18

13

## 3 - TRACK HEADER (SIMILAR AT SILL)




8

## NOT USED

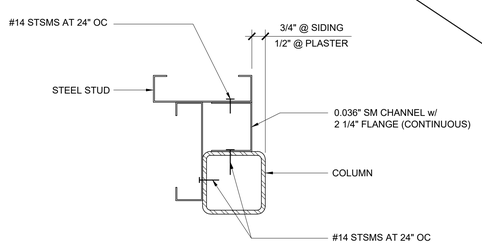
3

19

14

## COLUMN AT CORNER @ 2x6 STUD WALL

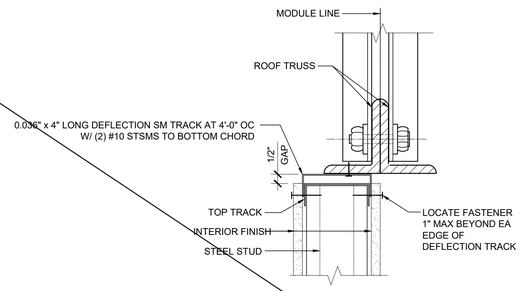
SCALE : 3"=1'-0"




9

## INTERIOR PARTITION WALL TO ROOF TRUSS

SCALE : 3"=1'-0"



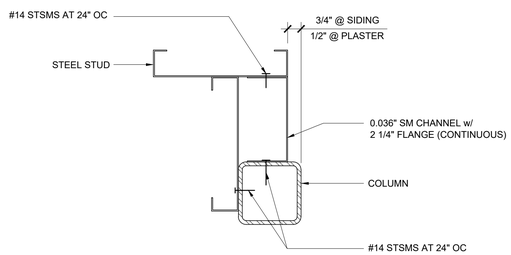

4

20

15

## COLUMN AT CORNER @ 2x8 STUD WALL

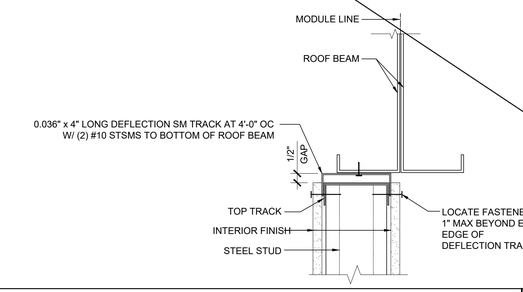
SCALE : 3"=1'-0"




10

## INTERIOR PARTITION WALL TO ROOF BEAM

SCALE : 3"=1'-0"




5

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PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# WALL FRAMING DETAILS
## STEEL STUDS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

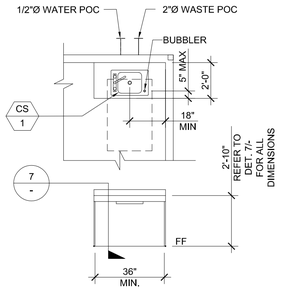
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

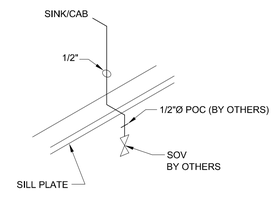
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

S-5.31

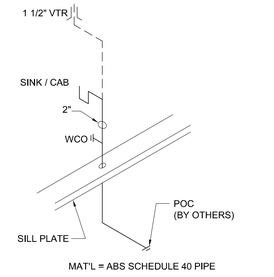



## TYPICAL SINK CABINET 11



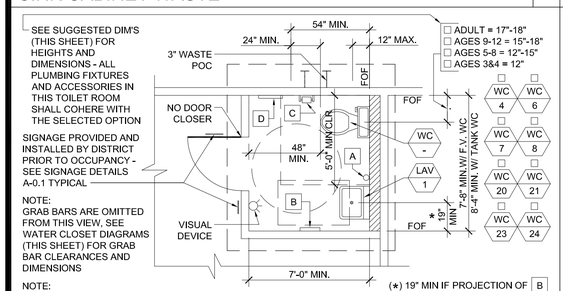

MAT'L = TYPE 'L' COPPER

## SINK CABINET COLD WATER SUPPLY SCALE: N.T.S. 12

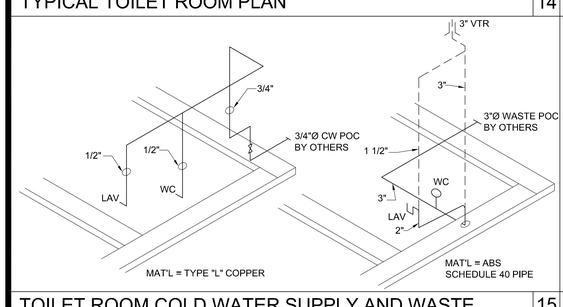



MAT'L = ABS SCHEDULE 40 PIPE

## SINK CABINET WASTE 13



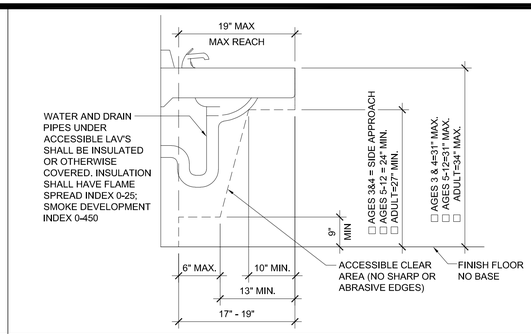

## TYPICAL TOILET ROOM PLAN 14



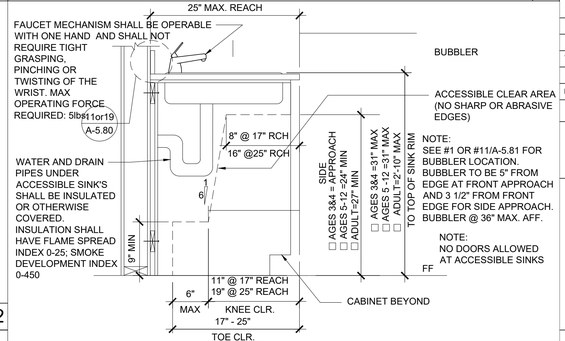

MAT'L = TYPE "L" COPPER

MAT'L = ABS
SCHEDULE 40 PIPE

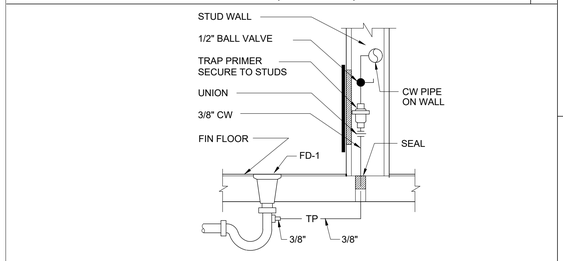
## TOILET ROOM COLD WATER SUPPLY AND WASTE 15



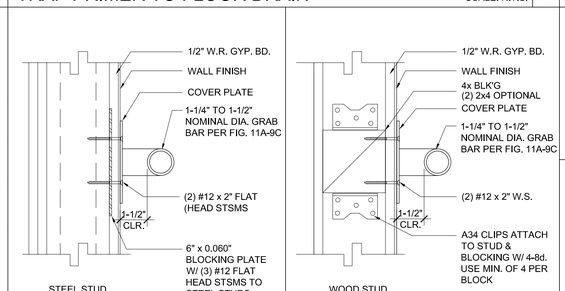

## ACCESSIBLE LAV CLEARANCE SCALE: N.T.S. 6



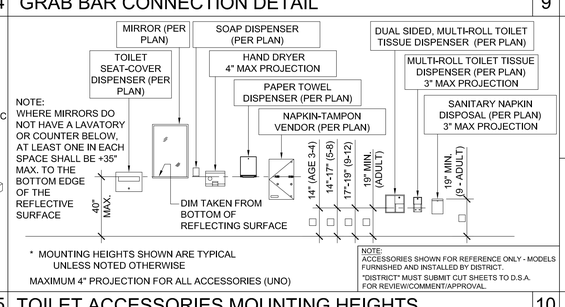

## ACCESSIBLE SINK CABINET (OPTION) SCALE: N.T.S. 7




## TRAP PRIMER TO FLOOR DRAIN SCALE: N.T.S. 8




## GRAB BAR CONNECTION DETAIL 9




## TOILET ACCESSORIES MOUNTING HEIGHTS 10

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

| ACCESSIBILITY DIMENSIONS | 11B-604.9 SUGGESTED DIMS | | | |
|---|---|---|---|---|
| | ADULT | AGES 9 THROUGH 12 | AGES 5 THROUGH 8 | AGES 3 AND 4 |
| TOILET CENTERING FROM WALL | 17" - 18" | 15" - 18" | 12" - 15" | 12" |
| TOILET SEAT HEIGHT (DIM TO TOP OF SEAT) | 17" - 19" | 15" - 17" | 12" - 15" | 11" - 12" |
| GRAB BAR HEIGHT (TO TOP) | 33" - 36" | 25" - 27" | 20" - 25" | 18" - 20" |
| TOILET PAPER IN FRONT OF TOILET | 7" - 9" | 7" - 9" | 7" - 9" | 7" - 9" |
| NAPKIN DISPOSAL IN FRONT OF TOILET | 12" MAX. | 12" MAX. | N/A | N/A |
| MIRROR HEIGHT (TO BOTTOM OF GLASS) | 40" MAX. | 40" MAX. | 36" MAX. | 32" MAX. |
| DISPENSER HEIGHT | 19" MIN. | 17" - 19" | 14" - 17" | 14" |
| LAVATORY/SINK TOP HEIGHT | 34" MAX. | 31" MAX. | 31" MAX. | 31" MAX. SIDE APPROACH |
| LAVATORY/SINK KNEE CLEARANCE | 27" MIN. | 24" MIN. | 24" MIN. | SIDE APPROACH |
| URINAL LIP HEIGHT | 17" MAX. | 17" MAX. | 15" MAX | 13" MIN. |
| URINAL FLUSH HANDLE HEIGHT | 44" MAX. | 44" MAX. | 37" MAX. * | 32" MAX. * |
| DRINKING FOUNTAIN BUBBLER HT. (LOW) | 36" MAX. | 30" MAX. | 30" MAX. | 30" MAX. |
| DRINKING FOUNTAIN KNEE CLEARANCE | 27" MIN. | SIDE APPROACH | SIDE APPROACH | SIDE APPROACH |
| HANDRAIL HEIGHT (TO TOP) | 34" - 38" | 34" - 38" | 34" - 38" | 34" - 38" |

| STANDARD DIMENSIONS | ALTERNATE HEIGHT (DIMS) | | | |
|---|---|---|---|---|
| | ADULT | AGES 9 THROUGH 12 | AGES 5 THROUGH 8 | AGES 3 AND 4 |
| TOILET CENTERING FROM WALL/PARTITION | 15" MIN | 15" MIN | 15" MIN | 15" MIN |
| TOILET SEAT HEIGHT/DIM TO TOP OF SEAT | 15" | 15" | 15" | 15" |
| TOILET CLEARANCE/FRONT | 24" | 24" | 24" | 24" |
| URINAL LIP HEIGHT | 24" | 24" | 18" | 16" |
| URINAL CENTER FROM WALL/PARTITION | 12" | 12" | 12" | 12" |

## PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

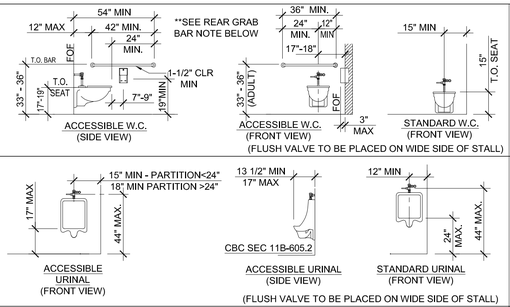
A SOAP DISPENSER; LIQUID SOAP DISPENSER 4" MAX. PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO; SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

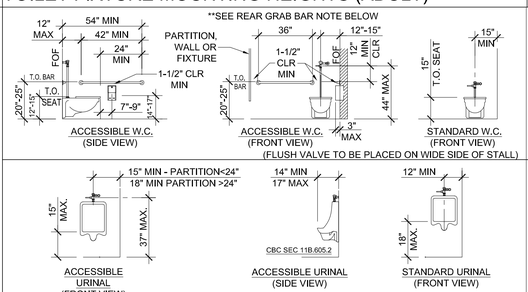
C TOILET PAPER HOLDER; SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT DISPENSER; SURFACE MOUNTED

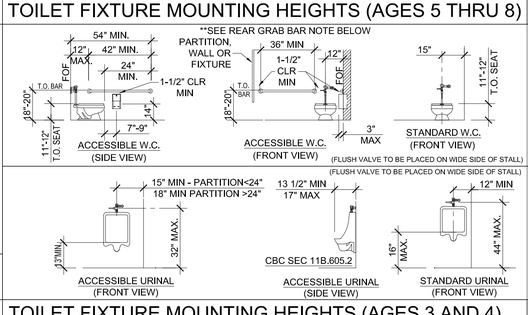
* 44" MAX. PER CODE




## TOILET FIXTURE MOUNTING HEIGHTS (ADULT) 3



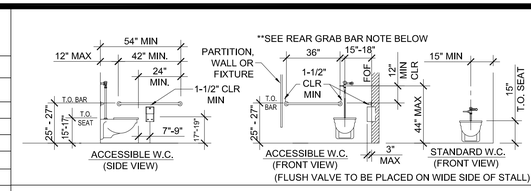

## TOILET FIXTURE MOUNTING HEIGHTS (ADULT) 16



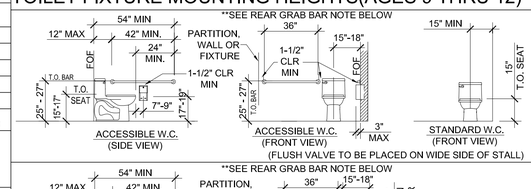

## TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 4



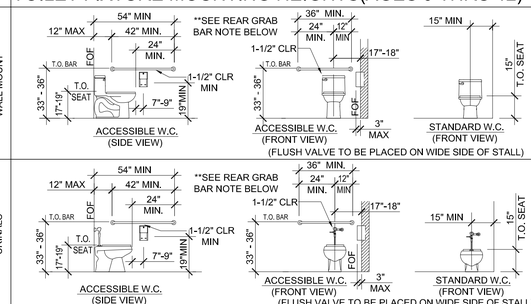

## TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 5



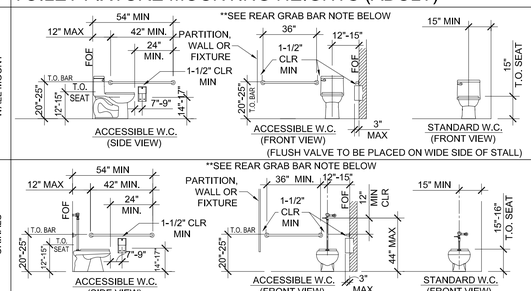

## TOILET FIXTURE MOUNTING HEIGHTS(AGES 9 THRU 12) 1



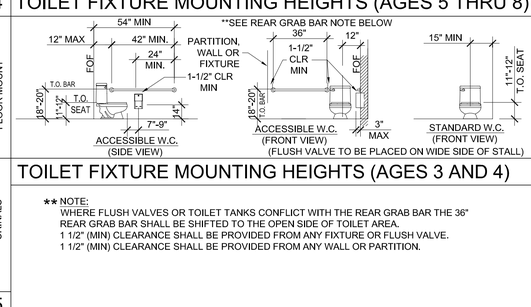

## TOILET FIXTURE MOUNTING HEIGHTS(AGES 9 THRU 12) 2




## TOILET FIXTURE MOUNTING HEIGHTS (AGES 9 THRU 12) 1




## TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 4




## TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 17




## TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 18

** NOTE:
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF TOILET AREA.
1 1/2" (MIN) CLEARANCE SHALL BE PROVIDED FROM ANY FIXTURE OR FLUSH VALVE.
1 1/2" (MIN) CLEARANCE SHALL BE PROVIDED FROM ANY WALL OR PARTITION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# PLUMBING DETAILS AND SCHEDULE

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLAND
2475
STRUCTURAL
STATE OF CALIFORNIA

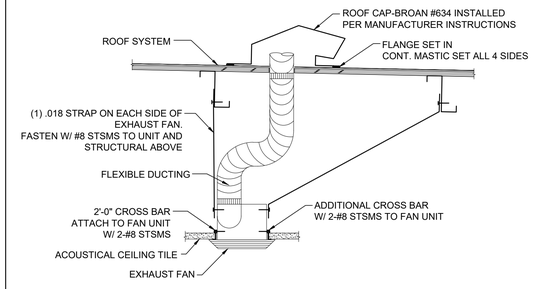
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
P-1.01

## LEGEND

| SYMBOL | ABB. | DESCRIPTION |
|---|---|---|
| | SAD | SUPPLY AIR DUCT |
| | RAD | RETURN AIR DUCT |
| | EAD | EXHAUST AIR DUCT |
| | (L) | LINED DUCTWORK |
| | CD | SUPPLY CEILING DIFFUSER |
| | CR | RETURN CEILING REGISTER |
| | ER | EXHAUST CEILING REGISTER |
| | VTR | VENT THRU ROOF |
| | FD | FIRE DAMPER |
| | MVD | MANUAL VOLUME DAMPER |
| UC | UC | UNDERCUT DOOR |
| T | STAT | THERMOSTAT |
| BT | BT | BYPASS TIMER |
| | P.O.C | POINT OF CONNECTION |
| CO | | $CO^2$ SENSOR |




## EXHAUST FAN INSTALLATION

SCALE : 1"=1'-0"

## MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPOORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.C

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRAVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

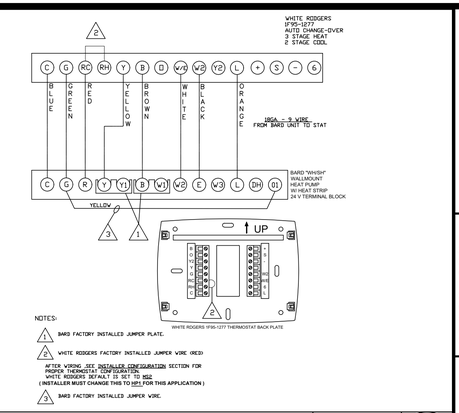
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION QUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF THE DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐MD☒PP☐E☐OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #) #----------.




## UNIT TO THERMOSTAT WIRING

SCALE: NONE — A

## CEILING MOUNTED EXHAUST FAN SCHEDULE

| SYM. | LOCATION | SERVICE | MANUF. | MODEL | CFM | SONES | SP | ELECTRICAL VOLTS | Ø | POWER | WGT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF 1 | CEILING | TOILET EXHAUST | BROAN * | L100 | 109 | 1.0 | 0.25 | 120 | 1 | 87 WATTS | 22.80 LBS. | WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |
| EF 2 | CEILING | TOILET EXHAUST | BROAN * | L200 | 210 | 2.0 | 0.25 | 120 | 1 | 127 WATTS | 23.0 LBS. | WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |
| EF 3 | CEILING | TOILET EXHAUST | BROAN * | L300 | 308 | 2.8 | 0.25 | 120 | 1 | 212 WATTS | 23.10 LBS. | WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |

* OR APPROVED EQUAL.

## PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

| ITEM | NECK SIZE | RANGE CFM | MFG & MODEL # |
|---|---|---|---|
| T-BAR SUPPLY 16X16-4W | 6"Ø | 0 - 150 | Fixed Curve Blade, 4-way throw |
| | 8"Ø | 150 - 230 | For lay-in T-bar ceilings use Harth & Cooley SD-9419 . (Sizes as shown on Mech Plan) |
| | 10"Ø | 230 - 350 | |
| | 12"Ø | 350 - 460 | |
| | 14"Ø | 460 - 640 | |

## PERFORATED FACE GRILLE SCHEDULE (RETURN)

| ITEM | NECK SIZE | RANGE CFM | MFG & MODEL # |
|---|---|---|---|
| T-BAR RETURN | 6"Ø | 0 - 230 | Perforated face |
| | 10"Ø | 230 - 460 | For lay-in T-bar ceilings use Shoemaker 105P with 24 ga., 45 deg. angle. (Sizes as shown on Mech Plan.) |
| | 14"Ø | 460 - 710 | |
| | | | |

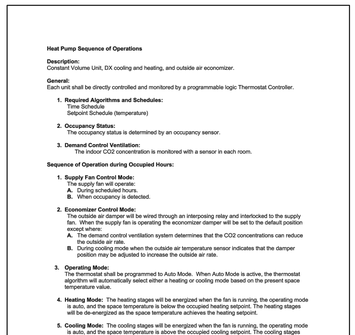
*TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS*

| Device Type[a] | Climate Zones | Required High Limit (Economizer Off When): Equation[b] | Description |
|---|---|---|---|
| Fixed Dry Bulb | 1, 3, 5, 11-16 | $T_{OA} > 75°F$ | Outdoor air temperature exceeds 75°F |
| | 2, 4, 10 | $T_{OA} > 73°F$ | Outdoor air temperature exceeds 73°F |
| | 6, 8, 9 | $T_{OA} > 71°F$ | Outdoor air temperature exceeds 71°F |
| | 7 | $T_{OA} > 69°F$ | Outdoor air temperature exceeds 69°F |
| Differential Dry Bulb | 1, 3, 5, 11-16 | $T_{OA} > T_{RA}°F$ | Outdoor air temperature exceeds return air temperature |
| | 2, 4, 10 | $T_{OA} > T_{RA}-2°F$ | Outdoor air temperature exceeds return air temperature minus 2°F |
| | 6, 8, 9 | $T_{OA} > T_{RA}-4°F$ | Outdoor air temperature exceeds return air temperature minus 4°F |
| | 7 | $T_{OA} > T_{RA}-6°F$ | Outdoor air temperature exceeds return air temperature minus 6°F |
| Fixed Enthalpy[c] + Fixed Dry bulb | All | $h_{OA} > 28$ Btu/lb[c] or $T_{OA} > 75°F$ | Outdoor air enthalpy exceeds 28 Btu/lb of dry air[c] or Outdoor air temperature exceeds 75°F |

[a] Only the high limit control devices listed are allowed to be used and at the setpoints listed. Others such as Dew Point, Fixed Enthalpy, Electronic Enthalpy, and Differential Enthalpy Controls, may not be used in any Climate Zone for compliance with Section 140.4(e)1 unless approval for use is provided by the Energy Commission Executive Director.

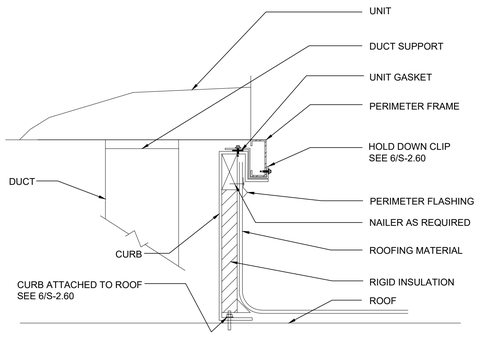
[b] Devices with selectable (rather than adjustable) setpoints shall be capable of being set to within 2°F and 2 Btu/lb of the setpoint listed.

[c] At altitudes substantially different than sea level, the Fixed Enthalpy limit value shall be set to the enthalpy value at 75°F and 50% relative humidity. As an example, at approximately 6,000 foot elevation, the fixed enthalpy limit is approximately 30.7 Btu/lb.




## RETURN CEILING DIFFUSER MOUNTING

SCALE: NONE — B




## A/C UNIT MOUNTING

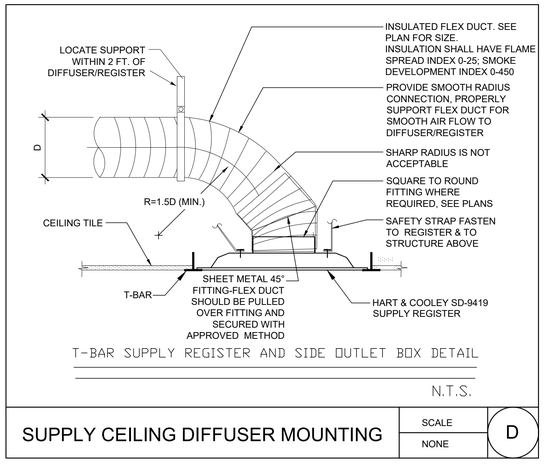
SCALE: NONE — C

## DUCT NOTES:

1. ALL DUCTING SHALL BE INSULATED WITH MIN OF R-4.2.
2. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
3. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2" WIDE.
4. DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN.
5. DUCT SHALL NOT BE KINKED OR CRUSHED.
6. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

## GENERAL NOTES:

1. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMES.
2. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES.
3. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(D)1.
4. ECONOMIZERS SHALL BE PROGRAMMED FOR HIGH LIMIT SHUT OFF PER TABLE 140.4-E.
5. THE OUTDOOR AIR C02 CONCENTRATION SHALL BE ASSUMED TO BE 400 ppm.

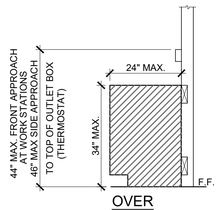



T-BAR SUPPLY REGISTER AND SIDE OUTLET BOX DETAIL

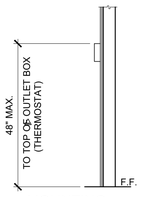
N.T.S.

## SUPPLY CEILING DIFFUSER MOUNTING

SCALE: NONE — D




OVER OBSTRUCTION




MOUNTING HEIGHTS

△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

**Heat Pump Sequence of Operations**

**Description:**
Constant Volume Unit, DX cooling and heating, and outside air economizer.

**General:**
Each unit shall be directly controlled and monitored by a programmable logic Thermostat Controller.

1. **Required Algorithms and Schedules:**
   Time Schedule
   Setpoint Schedule (temperature)
2. **Occupancy Status:**
   The occupancy status is determined by an occupancy sensor.
3. **Demand Control Ventilation:**
   The indoor CO2 concentration is monitored with a sensor in each room.

**Sequence of Operation during Occupied Hours:**

1. **Supply Fan Control Mode:**
   The supply fan will operate:
   **A.** During scheduled hours.
   **B.** When occupancy is detected.
2. **Economizer Control Mode:**
   The outside air damper will be wired through an interposing relay and interlocked to the supply fan. When the supply fan is operating the economizer damper will be set to the default position except when:
   **A.** The demand control ventilation system determines that the CO2 concentrations can reduce the outside air rate.
   **B.** During cooling mode when the outside air temperature sensor indicates that the damper position may be adjusted to increase the outside air rate.
3. **Operating Mode:**
   The thermostat shall be programmed to Auto Mode. When Auto Mode is active, the thermostat algorithm will automatically select either a heating or cooling mode based on the present space temperature value.
4. **Heating Mode:** The heating stages will be energized when the fan is running, the operating mode is auto, and the space temperature is below the occupied heating setpoint. The heating stages will be de-energized as the space temperature achieves the heating setpoint.
5. **Cooling Mode:** The cooling stages will be energized when the fan is running, the operating mode is auto, and the space temperature is above the occupied cooling setpoint. The cooling stages will be de-energized as the space temperature achieves the cooling setpoint.

**Sequence of Operation during Unoccupied Hours:**

1. **Supply Fan:**
   The fan will be cycled on if the space temperature is outside the heating and cooling unoccupied set points.
2. **Economizer Control:**
   The outside air damper will be wired through an interposing relay and interlocked to the supply fan. When the supply fan is on, the dampers are forced to the minimum position. When the supply fan is off, the damper will close.
3. **Pre-Occupancy Purge**
   In the hour prior to scheduled normal occupancy the supply fan shall operate for a duration sufficient in length to provide not less than 3 complete air changes.

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PROJECT NAME:

SHEET TITLE:

# MECHANICAL NOTES, SCHEDULES, & DETAILS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

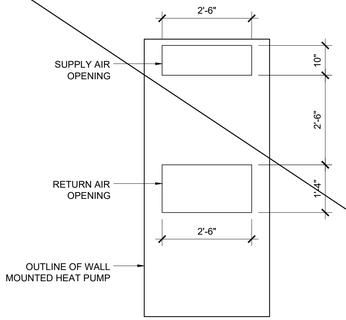
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLA 29575 STRUCTURAL STATE OF CALIFORNIA

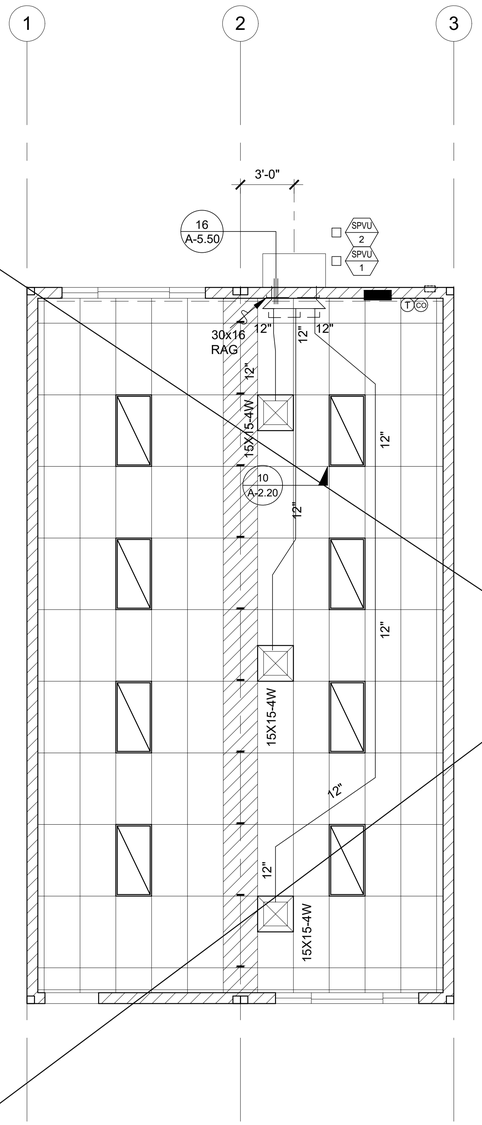
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
M-0.1




WALL MOUNTED HEAT PUMP DIAGRAM | SCALE: NONE | A




MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION | SCALE: 1/4" = 1'-0" | 1

| WALL MOUNTED MECHANICAL EQUIPMENT SCHEDULE | | | |
|---|---|---|---|
| | SPVU-1 | SPVU-2 | |
| HVAC Equipment Make and Model | BARD #W60HC-A00VN | BARD #T60S1-A00VN | |
| Nominal Tonnage | 5 | 5 | |
| BTUH: | | | |
| Heating | 52,500 | 56,000 | |
| Cooling | 54,500 | 52,000 | |
| Indoor/Blower Fan: | | | |
| BHP/HP | 0.75/0.75 | 0.75/0.75 | |
| CFM | 1,750 | 1,650 | |
| Strip Heating | NA | NA | |
| SEER | NA | NA | |
| EER | 11.0 | 11.0 | |
| HSPF | NA | NA | |
| COP | 3.3 | 3.3 | |
| Voltage | 230/208-1 | 230/208-1 | |
| MCA | 42 | 45 | |
| MCOP | 60 | 60 | |
| Wire Size (Pwr/ Grnd) | 8 / 10 | 8 / 10 | |
| Thermostat: | | | |
| Make and Model | Venstar #T4900SCH | Venstar #T4900SCH | |
| Setback | Yes | Yes | |
| Heat Pumps | Yes | Yes | |
| Shut-off and Reset: | Occupancy Sensor | Occupancy Sensor | |
| Economizer: | | | |
| Make and Model | Integrated | Integrated | |
| Controls | Fixed Dry Bulb | Fixed Dry Bulb | |
| Fault Detection | Yes | Yes | |
| Outside Air Damper Position | Varies | Varies | |
| Demand Control Ventilation | Yes | Yes | |
| Minimum DCV Outside Air in CFM | 0.15 CFM / SF | 0.15 CFM / SF | |
| Minimum Designed Outside Air in CFM | See Below | See Below | |
| Demand Shed Thermostat | NA | NA | |
| Operating Weight | 595 # | 660 # | |

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE IS EQUAL TO THE INDICATED TONNAGE AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.
PROVIDE A C02 SENSOR WITH LCD DISPLAY (CARROER #33ZCSPT02LCD-01 or EQUAL) ADJACENT TO THE THERMOSTAT MOUNTED AT + 48" AFF.
PROVIDE A HONEYWELL JADE CONTROL SYSTEM (or EQUAL) CAPABLE OF OUTPUTTING FDD ALARMS TO THE THEMOSTAT PER ENERGY CODE SECTION 120.2(j).
ECONOMIZERS SHALL HAVE AN INTEGRATED BARAMETRIC DAMPER OR OTHER MEANS OF EXHAUSTING THE BUILDING WHEN THE SYSTEM IS DELIVERING 100% OUTSIDE AIR.

## MECHANICAL EQUIPMENT SCHEDULE

NOTE:
THIS MECHANICAL SYSTEM SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT. THE SELECTED EQUIPMENT SHALL BE CAPABLE OF MEETING THE OUTSIDE AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

## VENTILATION CALCULATIONS:

24' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 960 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 960 X 0.38 = 365 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 960 SF
OCCUPANCY FOR EGRESS PURPOSES = 960 / 20 = 48 OCCUPANTS
EXPECTED # OF OCCUPANTS = 48 OCCUPANTS X 0.65 = 31 OCCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 31 X 15 = 465 CFM

NOTE:
THE DEMAND CONTROL VENTILLATION SYSTEM SHALL NOT BE REQUIRED TO PROVIDE THE OUTSIDE AIR IN EXCESS OF THE DESIGNED VOLUME INDICATED ABOVE.. THE DEMAND CONTROL VENTILLATION SYSTEM SHALL NOT REDUCE THE OUTSIDE AIR TO LESS THAN 25% OF THE DESIGNED VOLUME INDICATED ABOVE.

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SENSOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

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PROJECT NAME:

SHEET TITLE:

# MECHANICAL PLAN
# WALL MOUNT
# 24' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
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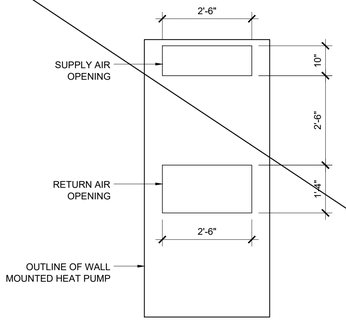
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
29775
STRUCTURAL
STATE OF CALIFORNIA

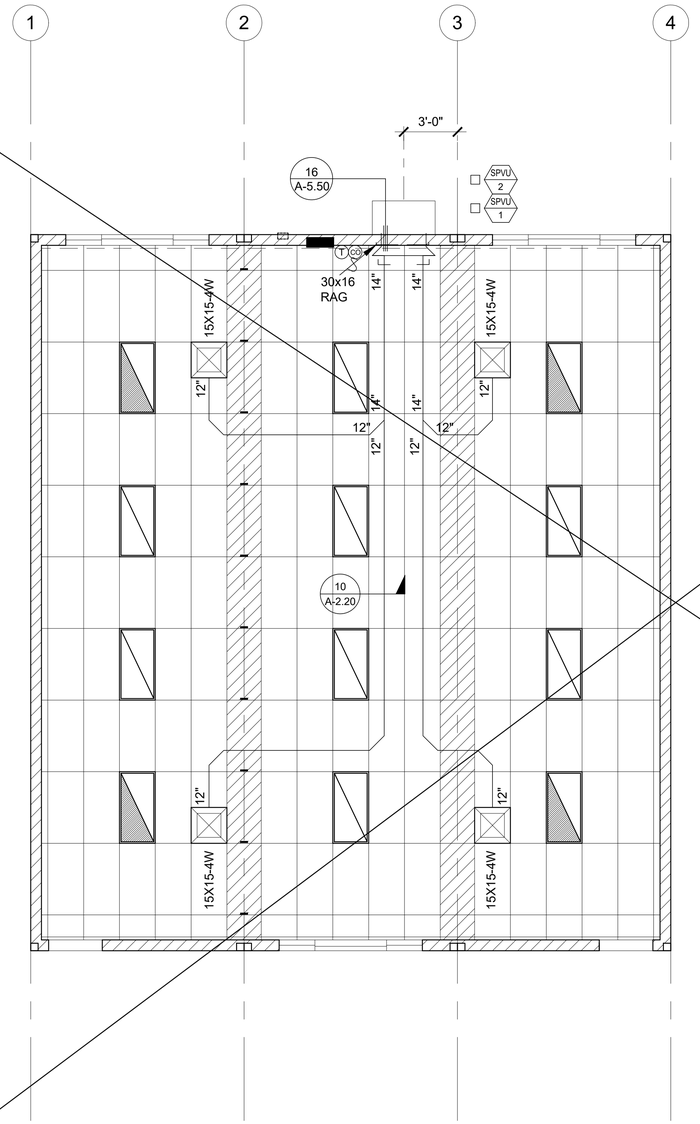
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
M-1.01




WALL MOUNTED HEAT PUMP DIAGRAM | SCALE: NONE | A




MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION | SCALE: 1/4" = 1'-0" | 1

| WALL MOUNTED MECHANICAL EQUIPMENT SCHEDULE | | | |
|---|---|---|---|
| | SPVU-1 | SPVU-2 | |
| HVAC Equipment Make and Model | BARD #W60HC-A00VN | BARD #T6051-A00VN | |
| Nominal Tonnage | 5 | 5 | |
| BTUH: | | | |
| Heating | 52,500 | 56,000 | |
| Cooling | 54,500 | 52,000 | |
| Indoor/Blower Fan: | | | |
| BHP/HP | 0.75/0.75 | 0.75/0.75 | |
| CFM | 1,750 | 1,650 | |
| Strip Heating | NA | NA | |
| SEER | NA | NA | |
| EER | 11.0 | 11.0 | |
| HSPF | NA | NA | |
| COP | 3.3 | 3.3 | |
| Voltage | 230/208-1 | 230/208-1 | |
| MCA | 42 | 45 | |
| MCOP | 60 | 60 | |
| Wire Size (Pwr/ Grnd) | 8 / 10 | 8 / 10 | |
| Thermostat: | | | |
| Make and Model | Venstar #T4900SCH | Venstar #T4900SCH | |
| Setback | Yes | Yes | |
| Heat Pumps | Yes | Yes | |
| Shut-off and Reset: | Occupancy Sensor | Occupancy Sensor | |
| Economizer: | | | |
| Make and Model | Integrated | Integrated | |
| Controls | Fixed Dry Bulb | Fixed Dry Bulb | |
| Fault Detection | Yes | Yes | |
| Outside Air Damper Position | Varies | Varies | |
| Demand Control Ventilation | Yes | Yes | |
| Minimum DCV Outside Air in CFM | 0.15 CFM / SF | 0.15 CFM / SF | |
| Minimum Designed Outside Air in CFM | See Below | See Below | |
| Demand Shed Thermostat | NA | NA | |
| Operating Weight | 595 # | 660 # | |

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE IS EQUAL TO THE INDICATED TONNAGE AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.
PROVIDE A C02 SENSOR WITH LCD DISPLAY (CARROER #33ZCSPT02LCD-01 or EQUAL) ADJACENT TO THE THERMOSTAT MOUNTED AT + 48" AFF.
PROVIDE A HONEYWELL JADE CONTROL SYSTEM (or EQUAL) CAPABLE OF OUTPUTTING FDD ALARMS TO THE THEMOSTAT PER ENERGY CODE SECTION 120.2(j).
ECONOMIZERS SHALL HAVE AN INTEGRATED BAROMETRIC DAMPER OR OTHER MEANS OF EXHAUSTING THE BUILDING WHEN THE SYSTEM IS DELIVERING 100% OUTSIDE AIR.

## MECHANICAL EQUIPMENT SCHEDULE

NOTE:
THIS MECHANICAL SYSTEM SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT. THE SELECTED EQUIPMENT SHALL BE CAPABLE OF MEETING THE OUTSIDE AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

## VENTILATION CALCULATIONS:

36' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 1,440 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1,440 X 0.38 = 548 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 1,440 SF
OCCUPANCY FOR EGRESS PURPOSES = 1,440 / 20 = 72 OCCUPANTS
EXPECTED # OF OCCUPANTS = 72 OCCUPANTS X 0.50 = 36 OCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 36 X 15 = 540 CFM

NOTE:
THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT BE REQUIRED TO PROVIDE OUTSIDE AIR IN EXCESS OF THE DESIGNED VOLUME INDICATED ABOVE. THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT REDUCE THE OUTSIDE AIR TO LESS THAN 25% OF THE DESIGNED VOLUME INDICATED ABOVE.

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SENSOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

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PROJECT NAME:

SHEET TITLE:

# MECHANICAL PLAN
# WALL MOUNT
# 36' x 40'

REVISIONS
02/27/2026 BID SET
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3
4
5

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

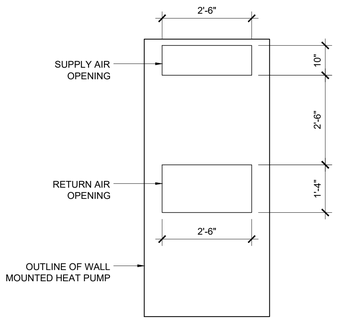
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

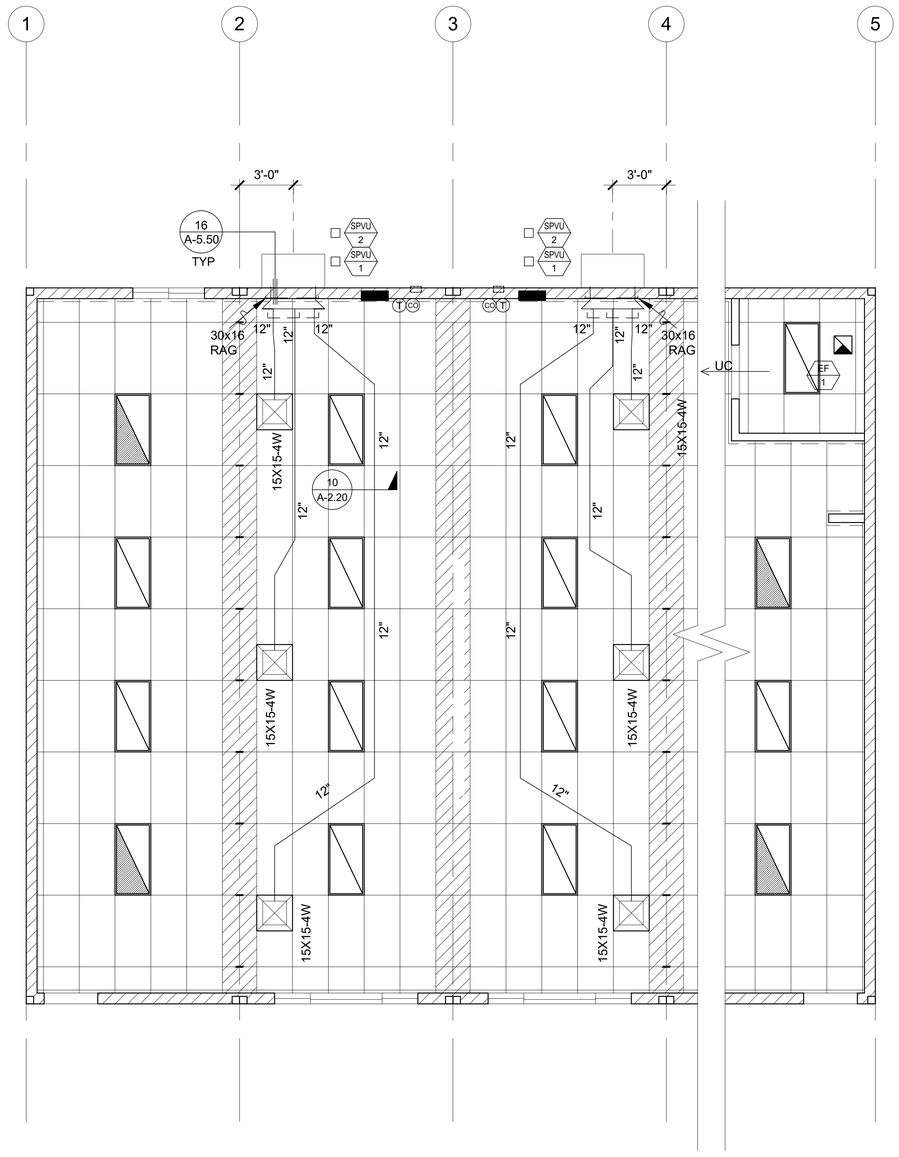
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

M-1.02




WALL MOUNTED HEAT PUMP DIAGRAM | SCALE: NONE | A




MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION | SCALE: 1/4" = 1'-0" | 1

| WALL MOUNTED MECHANICAL EQUIPMENT SCHEDULE | | | |
|---|---|---|---|
| | SPVU-1 | SPVU-2 | |
| HVAC Equipment Make and Model | BARD #W60HC-A00VN | BARD #T60S1-A00VN | |
| Nominal Tonnage | 5 | 5 | |
| BTUH: | | | |
| Heating | 52,500 | 56,000 | |
| Cooling | 54,500 | 52,000 | |
| Indoor/Blower Fan: | | | |
| BHP/HP | 0.75/0.75 | 0.75/0.75 | |
| CFM | 1,750 | 1,650 | |
| Strip Heating | NA | NA | |
| SEER | NA | NA | |
| EER | 11.0 | 11.0 | |
| HSPF | NA | NA | |
| COP | 3.3 | 3.3 | |
| Voltage | 230/208-1 | 230/208-1 | |
| MCA | 42 | 45 | |
| MCOP | 60 | 60 | |
| Wire Size (Pwr/ Grnd) | 8 / 10 | 8 / 10 | |
| Thermostat: | | | |
| Make and Model | Venstar #T4900SCH | Venstar #T4900SCH | |
| Setback | Yes | Yes | |
| Heat Pumps | Yes | Yes | |
| Shut-off and Reset: | Occupancy Sensor | Occupancy Sensor | |
| Economizer: | | | |
| Make and Model | Integrated | Integrated | |
| Controls | Fixed Dry Bulb | Fixed Dry Bulb | |
| Fault Detection | Yes | Yes | |
| Outside Air Damper Position | Varies | Varies | |
| Demand Control Ventilation | Yes | Yes | |
| Minimum DCV Outside Air in CFM | 0.15 CFM / SF | 0.15 CFM / SF | |
| Minimum Designed Outside Air in CFM | See Below | See Below | |
| Demand Shed Thermostat | NA | NA | |
| Operating Weight | 595 # | 660 # | |

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE IS EQUAL TO THE INDICATED TONNAGE AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.
PROVIDE A C02 SENSOR WITH LCD DISPLAY (CARROER #33ZCSPT02LCD-01 or EQUAL) ADJACENT TO THE THERMOSTAT MOUNTED AT + 48" AFF.
PROVIDE A HONEYWELL JADE CONTROL SYSTEM (or EQUAL) CAPABLE OF OUTPUTTING FDD ALARMS TO THE THEMOSTAT PER ENERGY CODE SECTION 120.2(j).
ECONOMIZERS SHALL HAVE AN INTEGRATED BARAMETRIC DAMPER OR OTHER MEANS OF EXHAUSTING THE BUILDING WHEN THE SYSTEM IS DELIVERING 100% OUTSIDE AIR.

## MECHANICAL EQUIPMENT SCHEDULE

NOTE:
THIS MECHANICAL SYSTEM SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT. THE SELECTED EQUIPMENT SHALL BE CAPABLE OF MEETING THE OUTSIDE AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

## VENTILATION CALCULATIONS:

24' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 960 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 960 X 0.38 = 365 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 960 SF
OCCUPANCY FOR EGRESS PURPOSES = 960 / 20 = 48 OCCUPANTS
EXPECTED # OF OCCUPANTS = 48 OCCUPANTS X 0.65 = 31 OCCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 31 X 15 = 465 CFM

36' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 1,440 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1,440 X 0.38 = 548 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 1,440 SF
OCCUPANCY FOR EGRESS PURPOSES = 1,440 / 20 = 72 OCCUPANTS
EXPECTED # OF OCCUPANTS = 72 OCCUPANTS X 0.50 = 36 OCCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 36 X 15 = 540 CFM

NOTE:
THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT BE REQUIRED TO PROVIDE OUTSIDE AIR IN EXCESS OF THE DESIGNED VOLUME INDICATED ABOVE. THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT REDUCE THE OUTSIDE AIR TO LESS THAN 25% OF THE DESIGNED VOLUME INDICATED ABOVE.

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SENSOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# MECHANICAL PLAN
# WALL MOUNT
# 48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

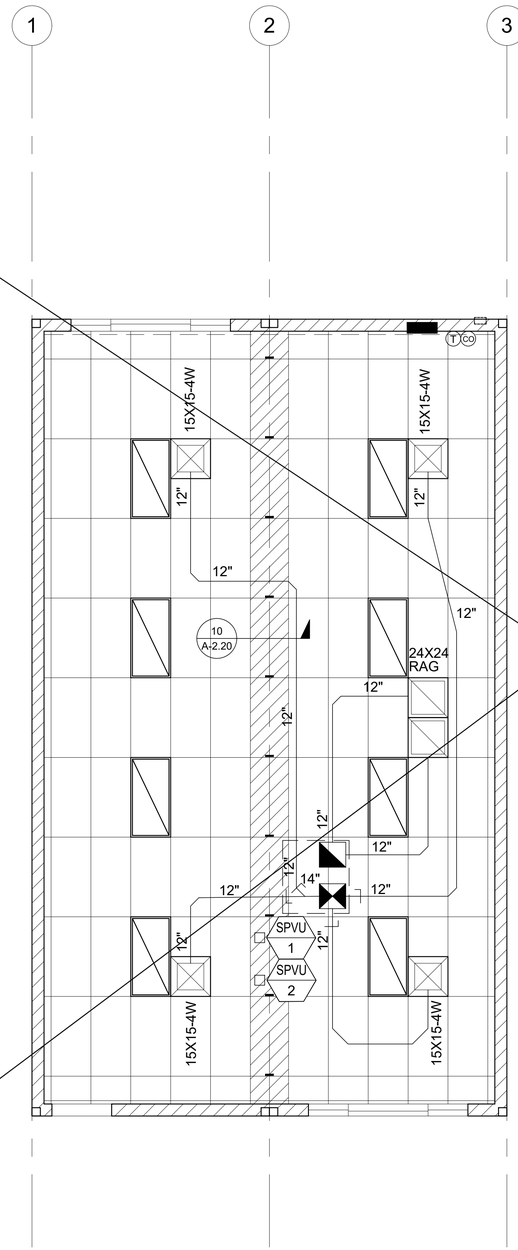
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUCH
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
M-1.03




MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION

SCALE: 1/4" = 1'-0"

1

| ROOF TOP MECHANICAL EQUIPMENT SCHEDULE | | | |
|---|---|---|---|
| | HP-1 | HP-2 | |
| HVAC Equipment Make and Model | DAY & NIGHT #PHD460000K | CARRIER #50VR-A60---30-- | |
| Nominal Tonnage | 5 | 5 | |
| BTUH: | | | |
| Heating | 57,500 | 57,000 | |
| Cooling | 57,500 | 57,000 | |
| Indoor/Blower Fan: | | | |
| BHP/HP | 1/1 | 0.80/1 | |
| CFM | 1,750 | 1,750 | |
| Strip Heating | NA | NA | |
| SEER | 14.0 | 15 | |
| EER | 11.5 | 12 | |
| HSPF | 8.0 | 8.5 | |
| COP | 3.7 | 3.5 | |
| Voltage | 230/208-1 | 230/208-1 | |
| MCA | 40 | 44.8 | |
| MCOP | 60 | 60 | |
| Wire Size (Pwr/ Grnd) | 8 / 10 | 8 / 10 | |
| Thermostat: | | | |
| Make and Model | Venstar #T4900SCH | Venstar #T4900SCH | |
| Setback | Yes | Yes | |
| Heat Pumps | Yes | Yes | |
| Shut-off and Reset: | Occupancy Sensor | Occupancy Sensor | |
| Economizer: | | | |
| Make and Model | CPECOMZR007A00 | ECO-SPPLBSA-D2DH | |
| Controls | Fixed Dry Bulb | Fixed Dry Bulb | |
| Fault Detection | Yes | Yes | |
| Outside Air Damper Position | Varies | Varies | |
| Demand Control Ventilation | Yes | Yes | |
| Minimum DCV Outside Air in CFM | 0.15 CFM / SF | 0.15 CFM / SF | |
| Minimum Designed Outside Air in CFM | See Below | See Below | |
| Demand Shed Thermostat | NA | NA | |
| Operating Weight | 590 # | 660 # | |

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
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PROVIDE A HONEYWELL JADE CONTROL SYSTEM (or EQUAL) CAPABLE OF OUTPUTTING FDD ALARMS TO THE THEMOSTAT PER ENERGY CODE SECTION 120.2(j).
ECONOMIZERS SHALL HAVE AN INTEGRATED BARAMETRIC DAMPER OR OTHER MEANS OF EXHAUSTING THE BUILDING WHEN THE SYSTEM IS DELIVERING 100% OUTSIDE AIR.

## MECHANICAL EQUIPMENT SCHEDULE

NOTE:
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## VENTILATION CALCULATIONS:

24' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
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REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 960 X 0.38 = 365 CFM

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BUILDING AREA = 960 SF
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# MECHANICAL PLAN ROOF MOUNT 24' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

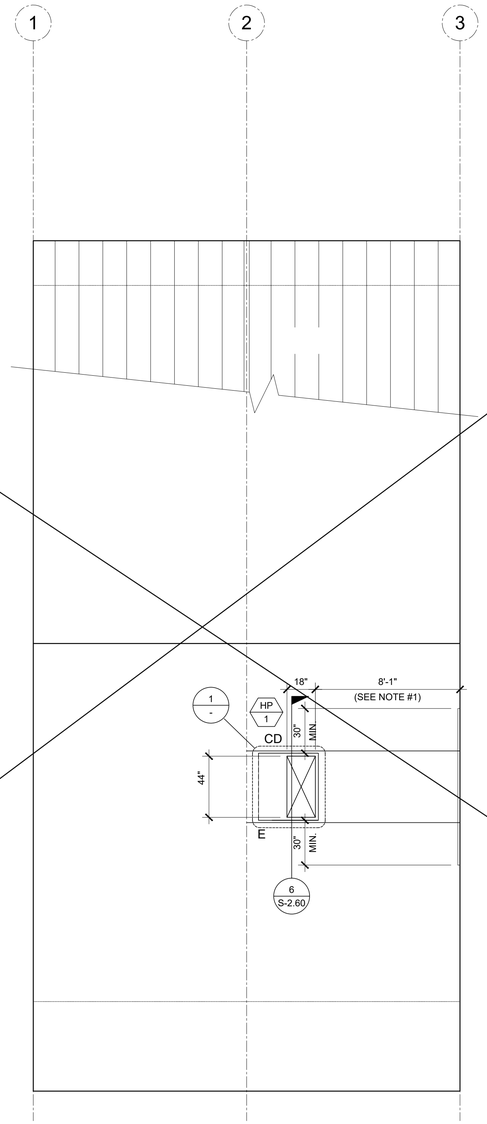
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24078
STRUCTURAL
STATE OF CALIFORNIA

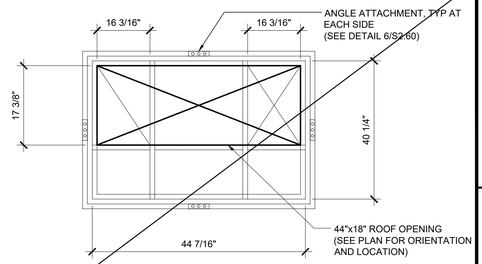
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

M-2.01




## HEAT PUMP CURB PLAN VIEW

SCALE: NTS | 1

NOTE:
1. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES OR PROVIDE A GUARDRAIL PER CBC 2022 SECTIONS 1015.6 & 1015.7. SEE ARCH ROOF PLAN

## MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0" | 4

3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# MECHANICAL ROOF PLAN
# ROOF MOUNT
# 24' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

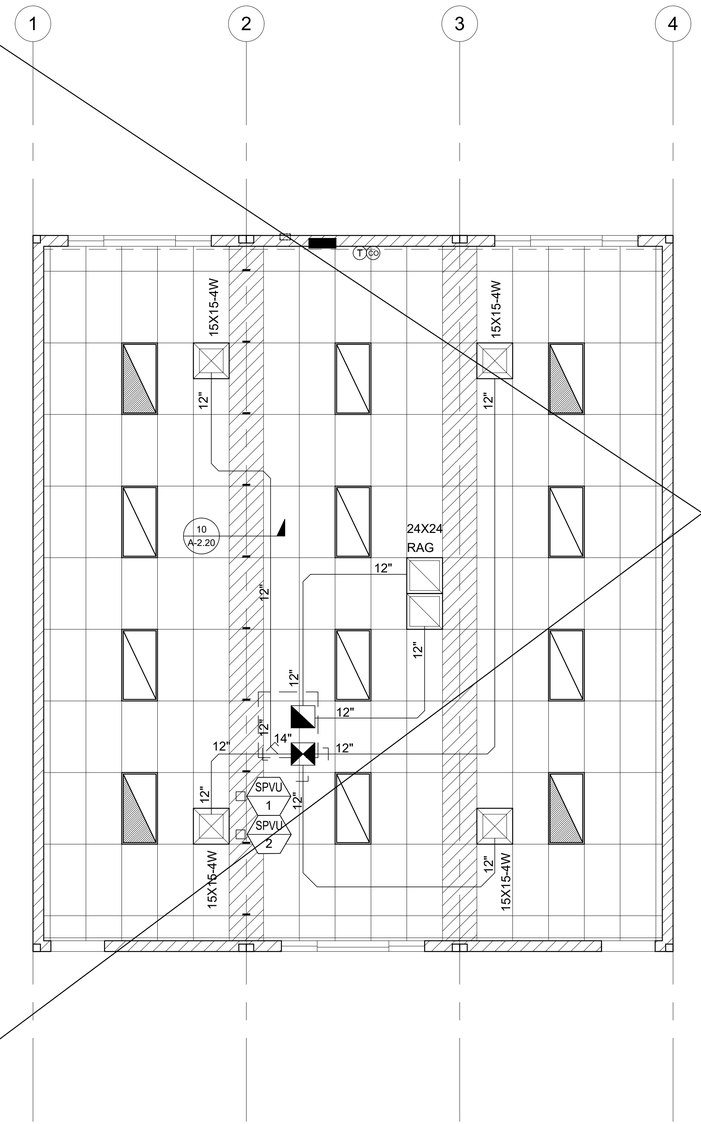
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

M-2.02




MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION

SCALE: 1/4" = 1'-0"

2

| ROOF TOP MECHANICAL EQUIPMENT SCHEDULE | | | |
|---|---|---|---|
| | HP-1 | HP-2 | |
| HVAC Equipment Make and Model | DAY & NIGHT #PHD460000K | CARRIER #50VR-A60---30-- | |
| Nominal Tonnage | 5 | 5 | |
| BTUH: | | | |
| Heating | 57,500 | 57,000 | |
| Cooling | 57,500 | 57,000 | |
| Indoor/Blower Fan: | | | |
| BHP/HP | 1/1 | 0.60/1 | |
| CFM | 1,750 | 1,750 | |
| Strip Heating | NA | NA | |
| SEER | 14.0 | 15 | |
| EER | 11.5 | 12 | |
| HSPF | 8.0 | 8.5 | |
| COP | 3.7 | 3.5 | |
| Voltage | 230/208-1 | 230/208-1 | |
| MCA | 40 | 44.8 | |
| MCOP | 60 | 60 | |
| Wire Size (Pwr/ Grnd) | 8 / 10 | 8 / 10 | |
| Thermostat: | | | |
| Make and Model | Venstar #T4900SCH | Venstar #T4900SCH | |
| Setback | Yes | Yes | |
| Heat Pumps | Yes | Yes | |
| Shut-off and Reset: | Occupancy Sensor | Occupancy Sensor | |
| Economizer: | | | |
| Make and Model | CPECOMZR007A00 | ECD-SPPLBSA-D2DH | |
| Controls | Fixed Dry Bulb | Fixed Dry Bulb | |
| Fault Detection | Yes | Yes | |
| Outside Air Damper Position | Varies | Varies | |
| Demand Control Ventilation | Yes | Yes | |
| Minimum DCV Outside Air in CFM | 0.15 CFM / SF | 0.15 CFM / SF | |
| Minimum Designed Outside Air in CFM | See Below | See Below | |
| Demand Shed Thermostat | NA | NA | |
| Operating Weight | 590 # | 660 # | |

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
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## MECHANICAL EQUIPMENT SCHEDULE

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## VENTILATION CALCULATIONS:

36' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 1,440 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1,440 X 0.38 = 548 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 1,440 SF
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# MECHANICAL PLAN
# ROOF MOUNT
## 36' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

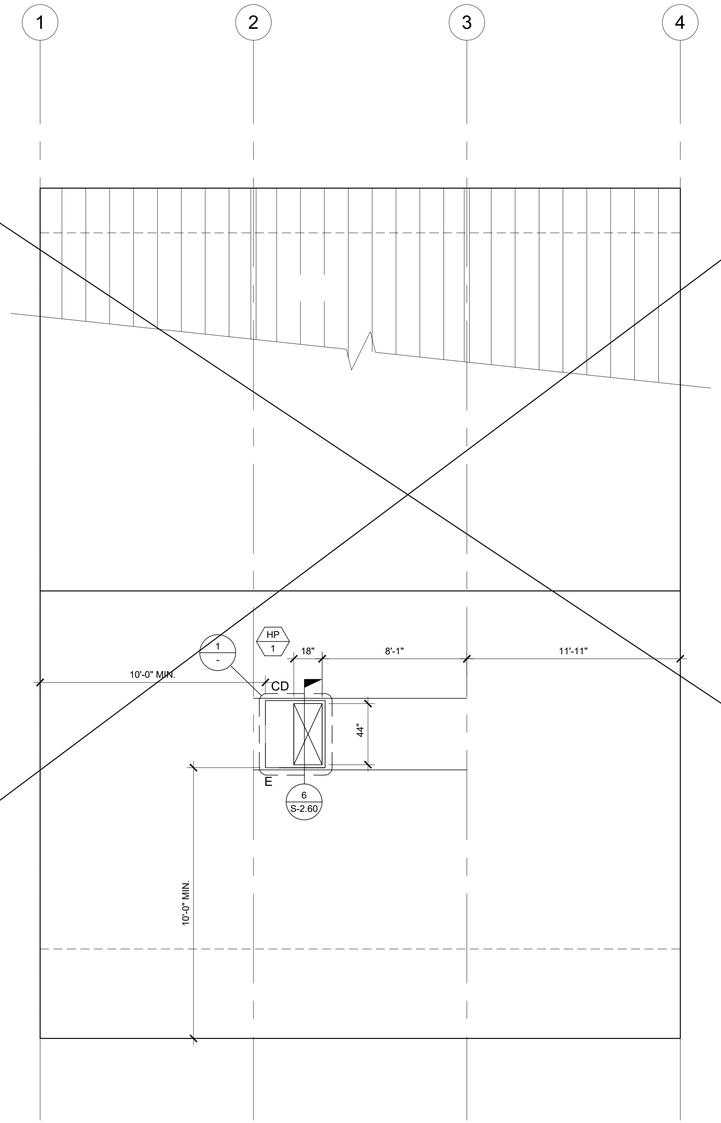
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

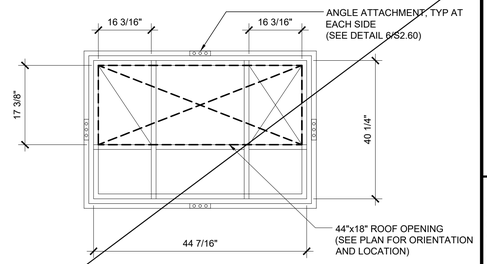
P.C. SHEET NUMBER

M-3.01




MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0"




HEAT PUMP CURB PLAN VIEW

SCALE: NTS

NOTE:
1. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES OR PROVIDE A GUARDRAIL PER CBC 2022 SECTIONS 1015.6 & 1015.7. SEE ARCH ROOF PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# MECHANICAL ROOF PLAN
## ROOF MOUNT
## 36' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

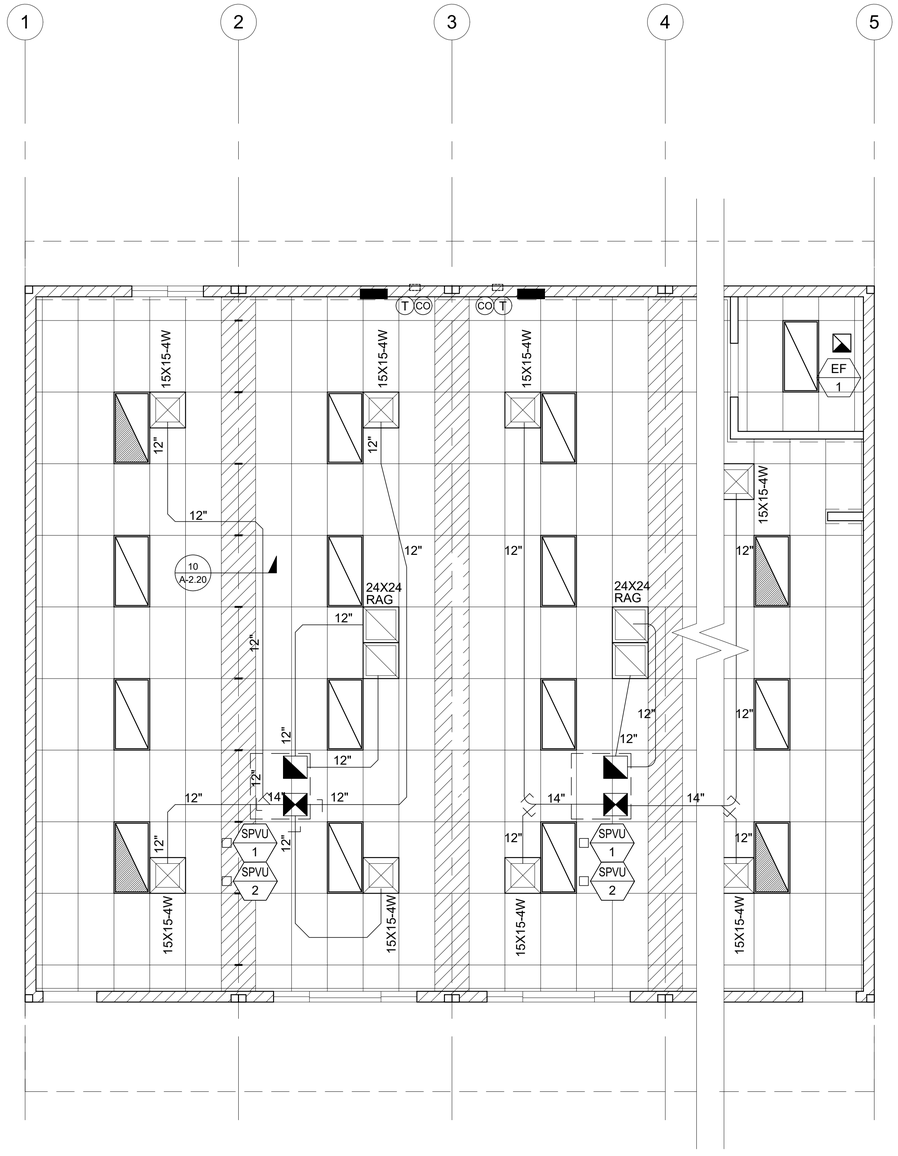
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

M-3.02




MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION

SCALE: 1/4" = 1'-0"

1

| ROOF TOP MECHANICAL EQUIPMENT SCHEDULE | | | |
|---|---|---|---|
| | HP-1 | HP-2 | |
| HVAC Equipment Make and Model | DAY & NIGHT #PHD460000K | CARRIER #50VR-A60---30-- | |
| Nominal Tonnage | 5 | 5 | |
| BTUH: | | | |
| Heating | 57,500 | 57,000 | |
| Cooling | 57,500 | 57,000 | |
| Indoor/Blower Fan: | | | |
| BHP/HP | 1/1 | 0.80/1 | |
| CFM | 1,750 | 1,750 | |
| Strip Heating | NA | NA | |
| SEER | 14.0 | 15 | |
| EER | 11.5 | 12 | |
| HSPF | 8.0 | 8.5 | |
| COP | 3.7 | 3.5 | |
| Voltage | 230/208-1 | 230/208-1 | |
| MCA | 40 | 44.8 | |
| MCOP | 60 | 60 | |
| Wire Size (Pwr/ Grnd) | 8 / 10 | 8 / 10 | |
| Thermostat: | | | |
| Make and Model | Venstar #T4900SCH | Venstar #T4900SCH | |
| Setback | Yes | Yes | |
| Heat Pumps | Yes | Yes | |
| Shut-off and Reset: | Occupancy Sensor | Occupancy Sensor | |
| Economizer: | | | |
| Make and Model | CPECOMZR007A00 | ECD-SPPLBSA-D2DH | |
| Controls | Fixed Dry Bulb | Fixed Dry Bulb | |
| Fault Detection | Yes | Yes | |
| Outside Air Damper Position | Varies | Varies | |
| Demand Control Ventilation | Yes | Yes | |
| Minimum DCV Outside Air in CFM | 0.15 CFM / SF | 0.15 CFM / SF | |
| Minimum Designed Outside Air in CFM | See Below | See Below | |
| Demand Shed Thermostat | NA | NA | |
| Operating Weight | 590 # | 660 # | |

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE IS EQUAL TO THE INDICATED TONNAGE AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.
PROVIDE A C02 SENSOR WITH LCD DISPLAY (CARROER #33ZCSPT02LCD-01 or EQUAL) ADJACENT TO THE THERMOSTAT MOUNTED AT + 48" AFF.
PROVIDE A HONEYWELL JADE CONTROL SYSTEM (or EQUAL) CAPABLE OF OUTPUTTING FDD ALARMS TO THE THEMOSTAT PER ENERGY CODE SECTION 120.2(j).
ECONOMIZERS SHALL HAVE AN INTEGRATED BARAMETRIC DAMPER OR OTHER MEANS OF EXHAUSTING THE BUILDING WHEN THE SYSTEM IS DELIVERING 100% OUTSIDE AIR.

## MECHANICAL EQUIPMENT SCHEDULE

NOTE:
THIS MECHANICAL SYSTEM SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT. THE SELECTED EQUIPMENT SHALL BE CAPABLE OF MEETING THE OUTSIDE AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

## VENTILATION CALCULATIONS:

24' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 960 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 960 X 0.38 = 365 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 960 SF
OCCUPANCY FOR EGRESS PURPOSES = 960 / 20 = 48 OCCUPANTS
EXPECTED # OF OCCUPANTS = 48 OCCUPANTS X 0.65 = 31 OCCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 31 X 15 = 465 CFM

36' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 1,440 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1,440 X 0.38 = 548 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 1,440 SF
OCCUPANCY FOR EGRESS PURPOSES = 1,440 / 20 = 72 OCCUPANTS
EXPECTED # OF OCCUPANTS = 72 OCCUPANTS X 0.50 = 36 OCCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 36 X 15 = 540 CFM

NOTE:
THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT BE REQUIRED TO PROVIDE OUTSIDE AIR IN EXCESS OF THE DESIGNED VOLUME INDICATED ABOVE. THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT REDUCE THE OUTSIDE AIR TO LESS THAN 25% OF THE DESIGNED VOLUME INDICATED ABOVE.

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SENSOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

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PROJECT NAME:

SHEET TITLE:

# MECHANICAL PLAN
# ROOF MOUNT
# 48' TO 120' x 40'

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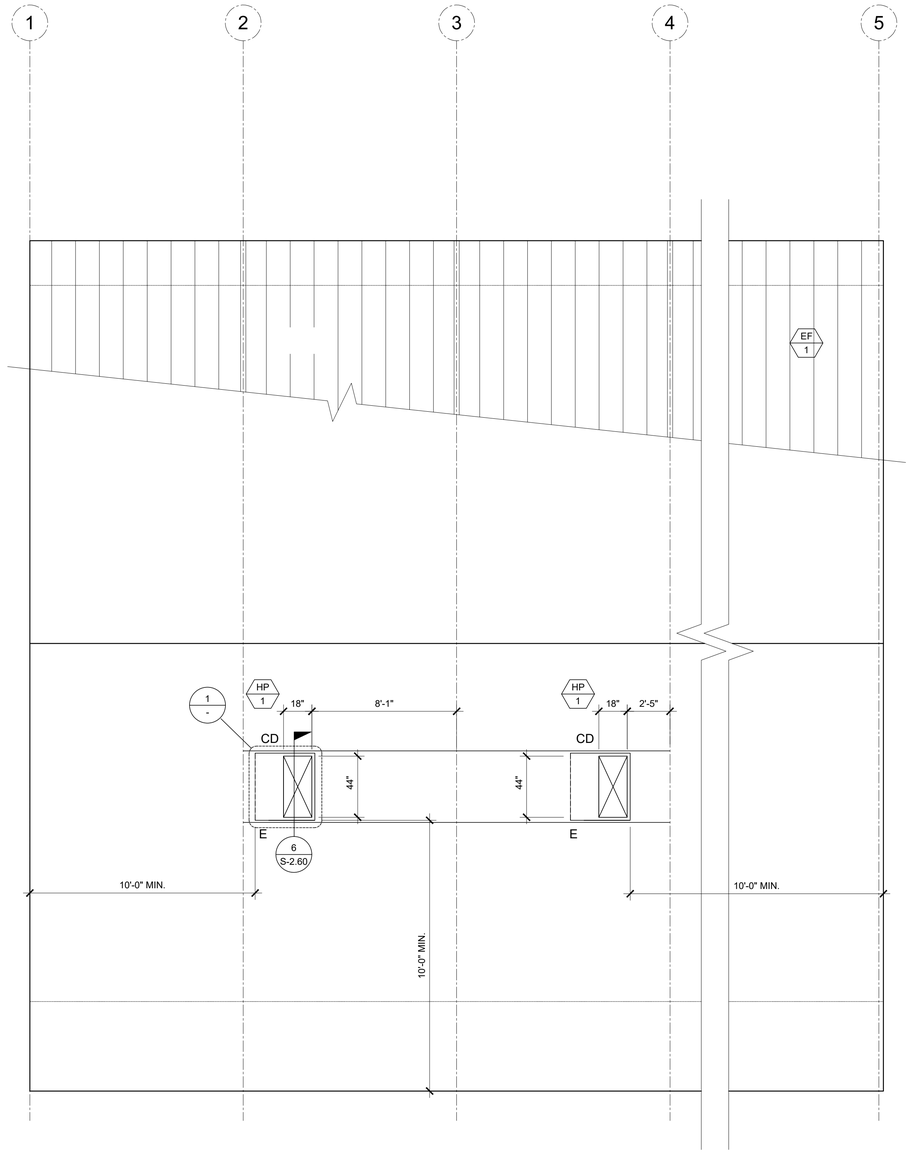
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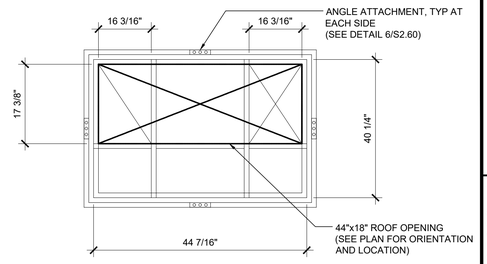
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
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SCALE: AS NOTED
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P.C. SHEET NUMBER

M-4.01




## HEAT PUMP CURB PLAN VIEW

SCALE: NTS | 1

NOTE:
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## MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0" | 2

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# ROOF MOUNT
# 48' TO 120" x 40'

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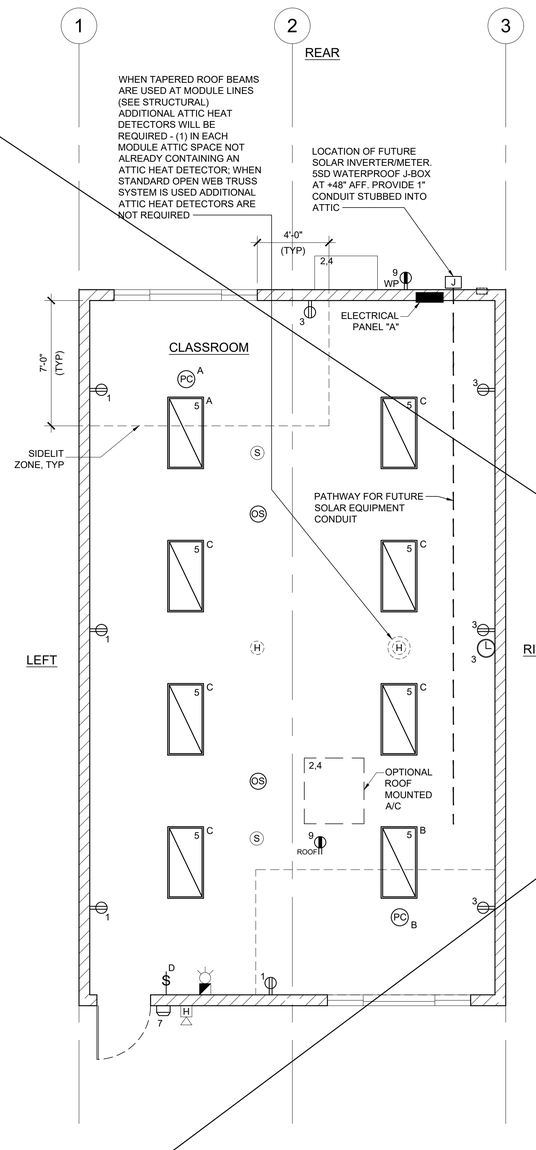
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
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STATE OF CALIFORNIA

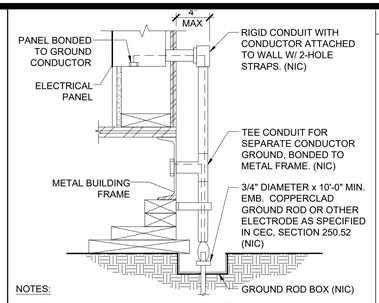
SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
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P.C. SHEET NUMBER

M-4.02

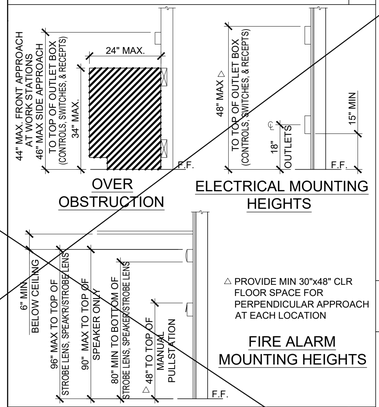


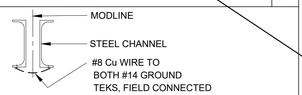

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

## TYPICAL GROUNDING DETAIL | 1




## ACCESSIBLE HEIGHTS | 2




## GROUND JUMPER AT MODLINE | 3

### GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR, ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

## FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 SECTION 10.6.5.2

## ELECTRICAL PLAN | SCALE: 1/4" = 1'-0" | 4

## MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 & 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPA FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP☐ MD☐ PP☐ E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

## LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN SHALL BE THE LUTRON VIVE WIRELESS LIGHTING CONTROL SYSTEM.
THE SYSTEM SHALL BE CAPABLE OF PROVIDING MANUAL CONTROL, OCCUPANCY SENSING CONTROL AND DAYLIGHT HARVESTING CONTROL.

### SEQUENCE:

OCCUPANT ENTERS:
ALL LIGHTS AUTOMATICALLY TURN ON TO 50% LIGHT LEVEL. OCCUPANT MAY INCREASE LIGHTS TO MAXIMUM LEVEL MANUALLY WITH WALL CONTROL.
WHEN OCCUPIED:
LIGHTING IN DAYLIT ZONES AUTOMATICALLY DIM/BRIGHTEN BASED ON DAYLIGHT AVAILABILITY.
OCCUPANT MAY MANUALLY DIM/BRIGHTEN THE LIGHTS WITH WALL CONTROL.
OCCUPANT EXITS:
ALL LIGHTS AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACANCY.

## CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

| WIRE SIZE | CAPACITY | WIRE TYPE | NO. OF CONDUCTOR PERMITTED 1/2" C | 3/4" C | 1" C | 1 1/4" C |
|---|---|---|---|---|---|---|
| #12 | 20A | THHN | 9 | 16 | 25 | 45 |
| #10 | 30A | THHN | 5 | 10 | 16 | 28 |
| #8 | 45A | THHN | 2 | 5 | 8 | 14 |
| #6 | 65A | THHN | 1 | 3 | 5 | 10 |
| #4 | 85A | THHN | 1 | 2 | 4 | 7 |

## JUNCTION BOX SIZE TABLE

| BOX | SIZE | CU. IN. | MAX NO. OF CONDUCTORS #12 | #10 | #8 | #6 |
|---|---|---|---|---|---|---|
| 4SS | 1 1/4" x 4" SQ | 18.0 | 8 | 7 | 6 | 0 |
| 4S | 1 1/2" x 4" SQ | 21.0 | 9 | 8 | 7 | 0 |
| 4SD | 2 1/8" x 4" SQ | 30.3 | 13 | 12 | 10 | 6 |
| 4SX | 2 7/8" x 4" SQ | 43.5 | 23 | 21 | 17 | 10 |
| 5SD | 2 1/8" x 4-11/16" SQ | 42.0 | 18 | 16 | 14 | 6 |
| 5SX | 3 7/8" x 4-11/16" SQ | 86.0 | 38 | 34 | 28 | 17 |
| 664 | 4" x 6" SQ | 144.0 | 64 | 57 | 48 | 28 |

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

## LEGEND

- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN)
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (US) ULTRASONIC CEILING OCCUPANCY SENSOR. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF
- $D DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX
- $ LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $3 3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $K KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- (L) CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- (H) 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- (S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (H) 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- WH 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN) EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- WALL MOUNTED LIGHT FIXTURE, 30 WATTS
- 4SD J-BOX FOR FUTURE DATA W/ SINGLE GANG RING W/ 1" CO STUB INTO ATTIC AND PULL STRING
- FS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
- TS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
- (B) DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

## ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: WALL MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | 4 | 720 | | 20 | 1 | 1 | | | 2 | 60 | 2 | 4830 | | 1 | HVAC - WALL MOUNT |
| RECEPTACLES/CLOCK | 5 | | 900 | 20 | 1 | 3 | | | 4 | - | - | | 4830 | | - |
| INTERIOR LIGHTING | 8 | 960 | | 20 | 1 | 5 | | | 6 | | | | | | |
| EXTERIOR LIGHTING | 1 | | 40 | 20 | 1 | 7 | | | 8 | | | | | | |
| WALL RECEPTACLE (GFI) | 1 | 180 | | 20 | 1 | 9 | | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | | 12 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2) |
| DED - SOLAR READY | | | | | | 13 | | | 14 | | | | | | |
| A = 6690 WATTS / PHASE | | 1860 | 940 | | | | | | | | | 4830 | 4870 | | B = 5810 WATTS / PHASE |

TOTAL = 12,500 WATTS | 61 AMPS | 120/208 VOLTS | 1 Ø | 3 WIRE

## ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: "A" ROOF MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: RECESSED

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | 4 | 720 | | 20 | 1 | 1 | | | 2 | 60 | 2 | 4542 | | 1 | HVAC - ROOF MOUNT |
| RECEPTACLES/CLOCK | 5 | | 900 | 20 | 1 | 3 | | | 4 | - | - | | 4542 | | - |
| INTERIOR LIGHTING | 8 | 960 | | 20 | 1 | 5 | | | 6 | | | | | | |
| EXTERIOR LIGHTING | 1 | | 40 | 20 | 1 | 7 | | | 8 | | | | | | |
| ROOF RECEPTACLE (GFI) | 1 | 180 | | 20 | 1 | 9 | | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | | 12 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2) |
| DED - SOLAR READY | | | | | | 13 | | | 14 | | | | | | |
| A = 6402 WATTS / PHASE | | 1860 | 940 | | | | | | | | | 4542 | 4582 | | B = 5522 WATTS / PHASE |

TOTAL = 11,924 WATTS | 57 AMPS | 120/208 VOLTS | 1 Ø | 3 WIRE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ELECTRICAL PLAN AND SCHEDULE 24' x 40'

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

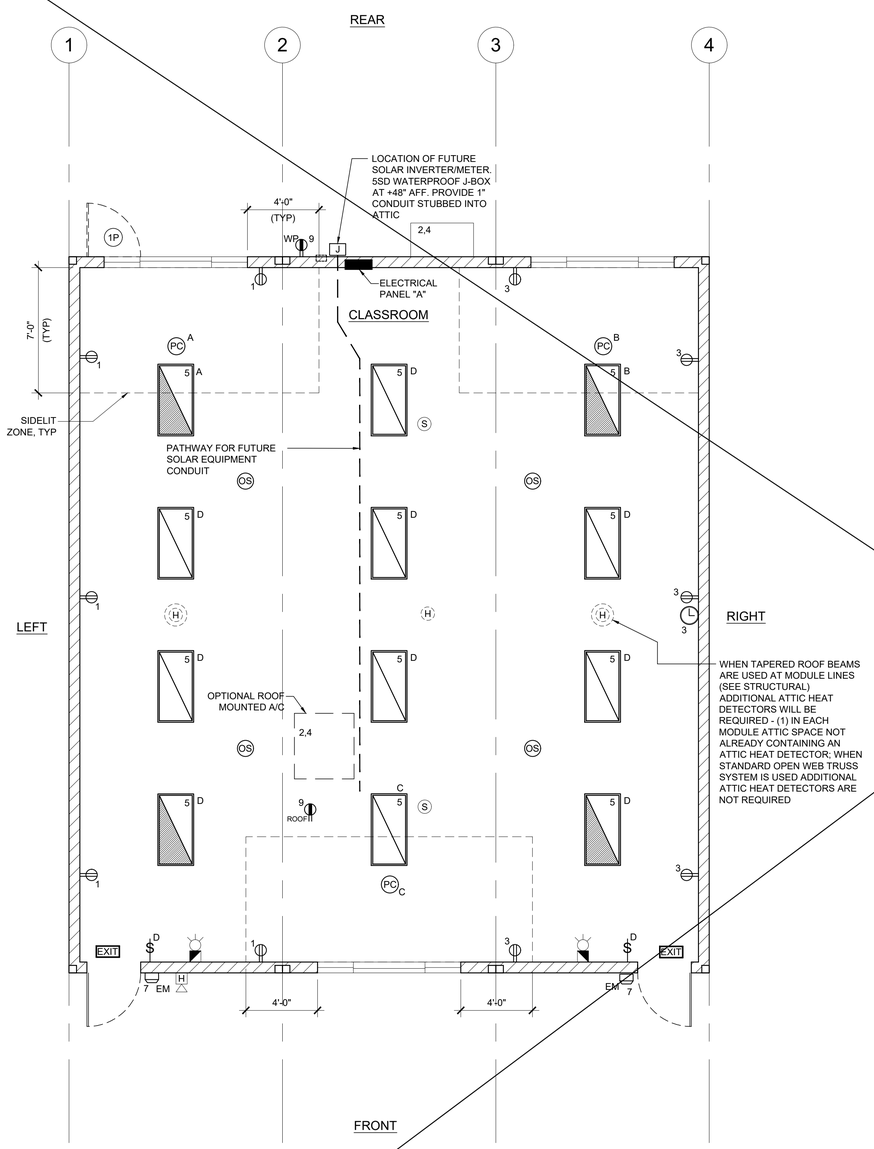
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2015 STRUCTURAL STATE OF CALIFORNIA

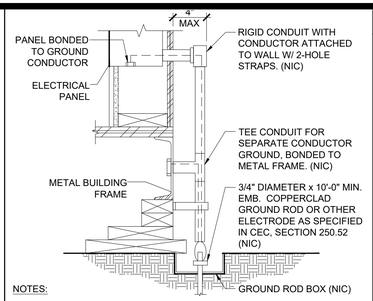
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER
E-1.01




## ELECTRICAL PLAN

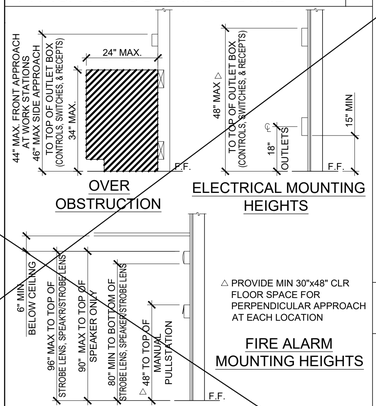
SCALE: 1/4" = 1'-0" | 4



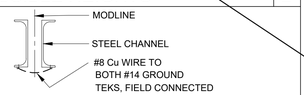

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

## TYPICAL GROUNDING DETAIL | 1




## ACCESSIBLE HEIGHTS | 2




## GROUND JUMPER AT MODLINE | 3

### GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

## FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 SECTION 10.6.5.2

## MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 & 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPA FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP☐ MD☐ PP☐ E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

## LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN SHALL BE THE LUTRON VIVE WIRELESS LIGHTING CONTROL SYSTEM.
THE SYSTEM SHALL BE CAPABLE OF PROVIDING MANUAL CONTROL, OCCUPANCY SENSING CONTROL AND DAYLIGHT HARVESTING CONTROL.

### SEQUENCE:

OCCUPANT ENTERS:
ALL LIGHTS AUTOMATICALLY TURN ON TO 50% LIGHT LEVEL. OCCUPANT MAY INCREASE LIGHTS TO MAXIMUM LEVEL MANUALLY WITH WALL CONTROL.
WHEN OCCUPIED:
LIGHTING IN DAYLIT ZONES AUTOMATICALLY DIM/BRIGHTEN BASED ON DAYLIGHT AVAILABILITY.
OCCUPANT MAY MANUALLY DIM/BRIGHTEN THE LIGHTS WITH WALL CONTROL.
OCCUPANT EXITS:
ALL LIGHTS AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACANCY.

## CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

| WIRE SIZE | CAPACITY | WIRE TYPE | NO. OF CONDUCTOR PERMITTED 1/2" C | 3/4" C | 1" C | 1 1/4" C |
|---|---|---|---|---|---|---|
| #12 | 20A | THHN | 9 | 16 | 25 | 45 |
| #10 | 30A | THHN | 5 | 10 | 16 | 28 |
| #8 | 45A | THHN | 2 | 5 | 8 | 14 |
| #6 | 65A | THHN | 1 | 3 | 5 | 10 |
| #4 | 85A | THHN | 1 | 2 | 4 | 7 |

## JUNCTION BOX SIZE TABLE

| BOX | SIZE | CU. IN. | MAX NO. OF CONDUCTORS #12 | #10 | #8 | #6 |
|---|---|---|---|---|---|---|
| 4SS | 1 1/4" x 4" SQ | 18.0 | 8 | 7 | 6 | 0 |
| 4S | 1 1/2" x 4" SQ | 21.0 | 9 | 8 | 7 | 0 |
| 4SD | 2 1/8" x 4" SQ | 30.3 | 13 | 12 | 10 | 6 |
| 4SX | 2 7/8" x 4" SQ | 43.5 | 23 | 21 | 17 | 10 |
| 5SD | 2 1/8" x 4-11/16" SQ | 42.0 | 18 | 16 | 14 | 6 |
| 5SX | 3 7/8" x 4-11/16" SQ | 86.0 | 38 | 34 | 28 | 17 |
| 664 | 4" x 6" SQ | 144.0 | 64 | 57 | 48 | 28 |

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

## LEGEND

- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN)
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (US) ULTRASONIC CEILING OCCUPANCY SENSOR. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF
- $D DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX
- $ LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $3 3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $K KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- (L) CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- (H) 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- (S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (H) 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (WH) 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN) EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- WALL MOUNTED LIGHT FIXTURE, 30 WATTS
- 4SD J-BOX FOR FUTURE DATA W/ SINGLE GANG RING W/ 1" CO STUB INTO ATTIC AND PULL STRING
- FS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
- TS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
- (B) DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.

## ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: WALL MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | 4 | 720 | | 20 | 1 | 1 | ● | | 2 | 60 | 2 | 4830 | | 1 | HVAC - WALL MOUNT |
| RECEPTACLES/CLOCK | 5 | | 900 | 20 | 1 | 3 | | ● | 4 | - | - | | 4830 | | - |
| INTERIOR LIGHTING | 8 | 960 | | 20 | 1 | 5 | ● | | 6 | | | | | | |
| EXTERIOR LIGHTING | 1 | | 40 | 20 | 1 | 7 | | ● | 8 | | | | | | |
| WALL RECEPTACLE (GFI) | 1 | 180 | | 20 | 1 | 9 | ● | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | ● | 12 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2) |
| DED - SOLAR READY | | | | | | 13 | ● | | 14 | | | | | | |
| A = 6690 WATTS / PHASE | | 1860 | 940 | | | | | | | | | 4830 | 4870 | | B = 5810 WATTS / PHASE |

TOTAL = 12,500 WATTS | 61 AMPS | 120/208 VOLTS | 1 Ø | 3 WIRE

## ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: "A" ROOF MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: RECESSED

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | 4 | 720 | | 20 | 1 | 1 | ● | | 2 | 60 | 2 | 4542 | | 1 | HVAC - ROOF MOUNT |
| RECEPTACLES/CLOCK | 5 | | 900 | 20 | 1 | 3 | | ● | 4 | - | - | | 4542 | | - |
| INTERIOR LIGHTING | 8 | 960 | | 20 | 1 | 5 | ● | | 6 | | | | | | |
| EXTERIOR LIGHTING | 1 | | 40 | 20 | 1 | 7 | | ● | 8 | | | | | | |
| ROOF RECEPTACLE (GFI) | 1 | 180 | | 20 | 1 | 9 | ● | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | ● | 12 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2) |
| DED - SOLAR READY | | | | | | 13 | ● | | 14 | | | | | | |
| A = 6402 WATTS / PHASE | | 1860 | 940 | | | | | | | | | 4542 | 4582 | | B = 5522 WATTS / PHASE |

TOTAL = 11,924 WATTS | 57 AMPS | 120/208 VOLTS | 1 Ø | 3 WIRE

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# ELECTRICAL PLAN AND SCHEDULE 36' x 40'

REVISIONS
02/27/2026 BID SET
1 2 3 4 5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

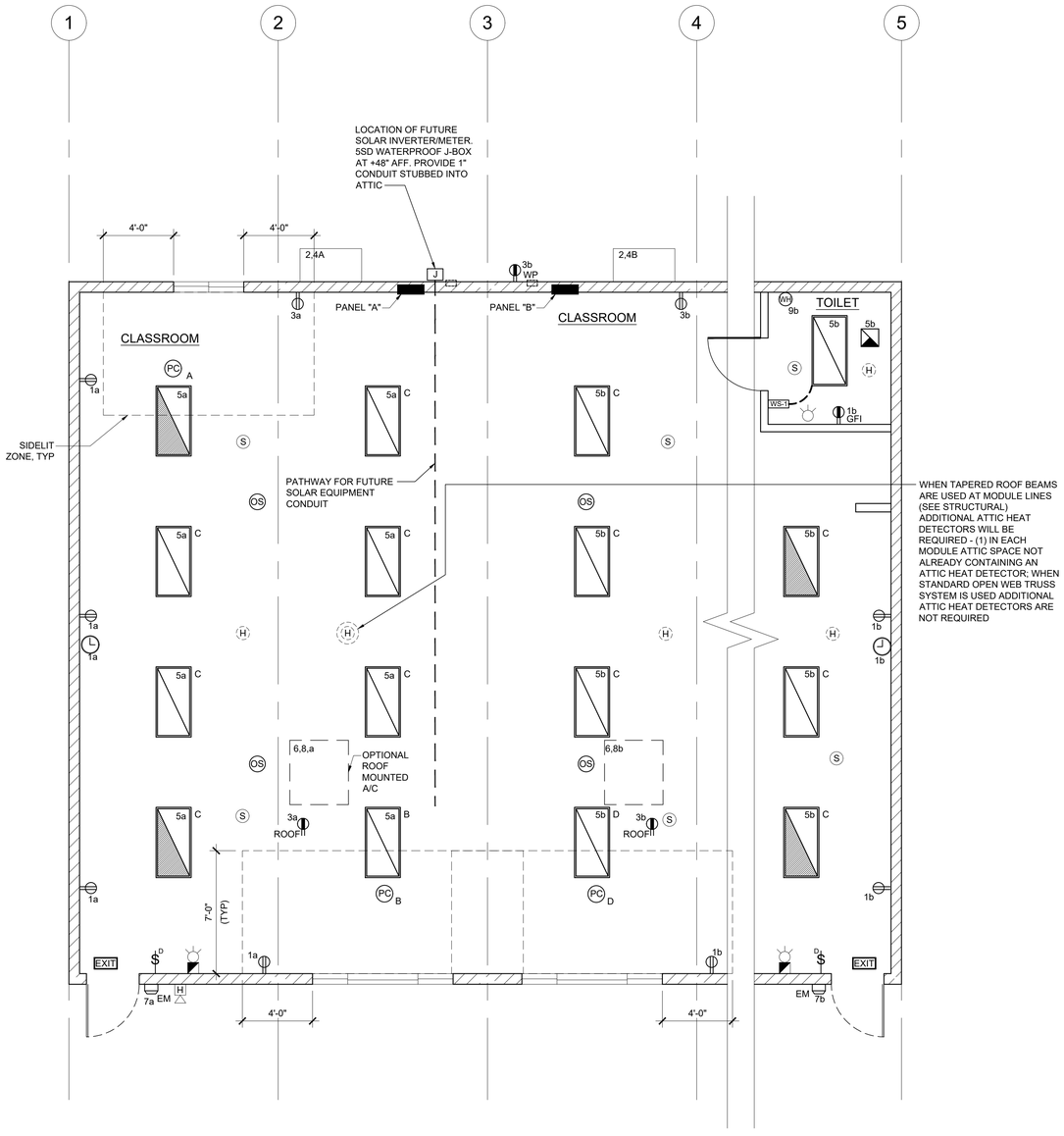
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2975 STRUCTURAL STATE OF CALIFORNIA

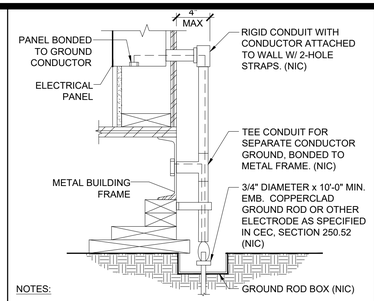
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER
E-1.02




## ELECTRICAL PLAN

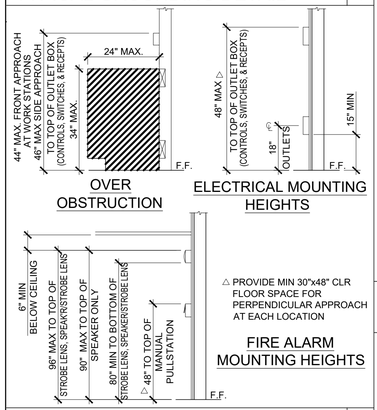
SCALE: 1/4" = 1'-0" | 4




NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

## TYPICAL GROUNDING DETAIL | 1




## ACCESSIBLE HEIGHTS | 2




## GROUND JUMPER AT MODLINE | 3

### GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

## FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 SECTION 10.6.5.2

## MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 & 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPA FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP☐ MD☐ PP☐ E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

## LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN SHALL BE THE LUTRON VIVE WIRELESS LIGHTING CONTROL SYSTEM.
THE SYSTEM SHALL BE CAPABLE OF PROVIDING MANUAL CONTROL, OCCUPANCY SENSING CONTROL AND DAYLIGHT HARVESTING CONTROL.

### SEQUENCE:

OCCUPANT ENTERS:
ALL LIGHTS AUTOMATICALLY TURN ON TO 50% LIGHT LEVEL. OCCUPANT MAY INCREASE LIGHTS TO MAXIMUM LEVEL MANUALLY WITH WALL CONTROL.
WHEN OCCUPIED:
LIGHTING IN DAYLIT ZONES AUTOMATICALLY DIM/BRIGHTEN BASED ON DAYLIGHT AVAILABILITY.
OCCUPANT MAY MANUALLY DIM/BRIGHTEN THE LIGHTS WITH WALL CONTROL.
OCCUPANT EXITS:
ALL LIGHTS AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACANCY.

## CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

| WIRE SIZE | CAPACITY | WIRE TYPE | NO. OF CONDUCTOR PERMITTED 1/2" C | 3/4" C | 1" C | 1 1/4" C |
|---|---|---|---|---|---|---|
| #12 | 20A | THHN | 9 | 16 | 25 | 45 |
| #10 | 30A | THHN | 5 | 10 | 16 | 28 |
| #8 | 45A | THHN | 2 | 5 | 8 | 14 |
| #6 | 65A | THHN | 1 | 3 | 5 | 10 |
| #4 | 85A | THHN | 1 | 2 | 4 | 7 |

## JUNCTION BOX SIZE TABLE

| BOX | SIZE | CU. IN. | MAX NO. OF CONDUCTORS #12 | #10 | #8 | #6 |
|---|---|---|---|---|---|---|
| 4SS | 1 1/4" x 4" SQ | 18.0 | 8 | 7 | 6 | 0 |
| 4S | 1 1/2" x 4" SQ | 21.0 | 9 | 8 | 7 | 0 |
| 4SD | 2 1/8" x 4" SQ | 30.3 | 13 | 12 | 10 | 6 |
| 4SX | 2 7/8" x 4" SQ | 43.5 | 23 | 21 | 17 | 10 |
| 5SD | 2 1/8" x 4-11/16" SQ | 42.0 | 18 | 16 | 14 | 6 |
| 5SX | 3 7/8" x 4-11/16" SQ | 86.0 | 38 | 34 | 28 | 17 |
| 664 | 4" x 6" SQ | 144.0 | 64 | 57 | 48 | 28 |

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

## LEGEND

- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN)
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (US) ULTRASONIC CEILING OCCUPANCY SENSOR. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF
- $D DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX
- $ LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $3 3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $K KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- (L) CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- (H) 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- (S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (H) 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (MH) 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN) EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- WALL MOUNTED LIGHT FIXTURE, 30 WATTS
- 4SD J-BOX FOR FUTURE DATA W/ SINGLE GANG RING W/ 1" CO STUB INTO ATTIC AND PULL STRING
- FS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
- TS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
- (B) DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

## ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: WALL MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | 4 | 720 | | 20 | 1 | 1 | | | 2 | 60 | 2 | 4830 | | 1 | HVAC - WALL MOUNT |
| RECEPTACLES/CLOCK | 5 | | 900 | 20 | 1 | 3 | | | 4 | - | - | | 4830 | | - |
| INTERIOR LIGHTING | 8 | 960 | | 20 | 1 | 5 | | | 6 | | | | | | |
| EXTERIOR LIGHTING | 1 | | 40 | 20 | 1 | 7 | | | 8 | | | | | | |
| WALL RECEPTACLE (GFI) | 1 | 180 | | 20 | 1 | 9 | | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | | 12 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2) |
| DED - SOLAR READY | | | | | | 13 | | | 14 | | | | | | |
| A = 6690 WATTS / PHASE | | 1860 | 940 | | | | | | | | | 4830 | 4870 | | B = 5810 WATTS / PHASE |

TOTAL = 12,500 WATTS | 61 AMPS | 120/208 VOLTS | 1 Ø | 3 WIRE

## ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: "A" ROOF MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: RECESSED

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | BREAKER P | Circuit | A | B | Circuit | BREAKER Amps | BREAKER P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES | 4 | 720 | | 20 | 1 | 1 | | | 2 | 60 | 2 | 4542 | | 1 | HVAC - ROOF MOUNT |
| RECEPTACLES/CLOCK | 5 | | 900 | 20 | 1 | 3 | | | 4 | - | - | | 4542 | | - |
| INTERIOR LIGHTING | 8 | 960 | | 20 | 1 | 5 | | | 6 | | | | | | |
| EXTERIOR LIGHTING | 1 | | 40 | 20 | 1 | 7 | | | 8 | | | | | | |
| ROOF RECEPTACLE (GFI) | 1 | 180 | | 20 | 1 | 9 | | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | | 12 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2) |
| DED - SOLAR READY | | | | | | 13 | | | 14 | | | | | | |
| A = 6402 WATTS / PHASE | | 1860 | 940 | | | | | | | | | 4542 | 4582 | | B = 5522 WATTS / PHASE |

TOTAL = 11,924 WATTS | 57 AMPS | 120/208 VOLTS | 1 Ø | 3 WIRE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024
PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ELECTRICAL PLAN AND SCHEDULE 48' TO 120' x 40'

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

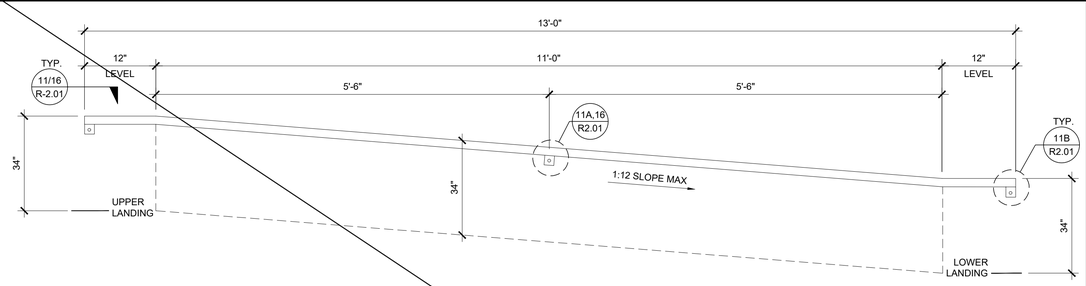
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLE 2023 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

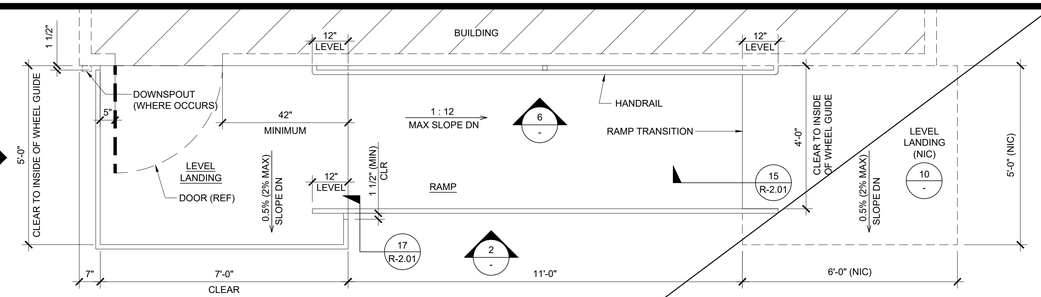
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SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
E-1.03



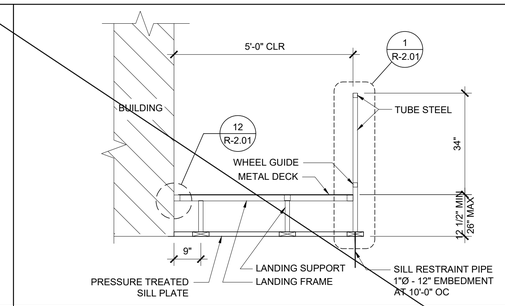

## HANDRAIL ATTACHMENT TO BUILDING

SCALE : 1" = 1'-0" | 6




## RAMP AND LANDING AT BUILDING

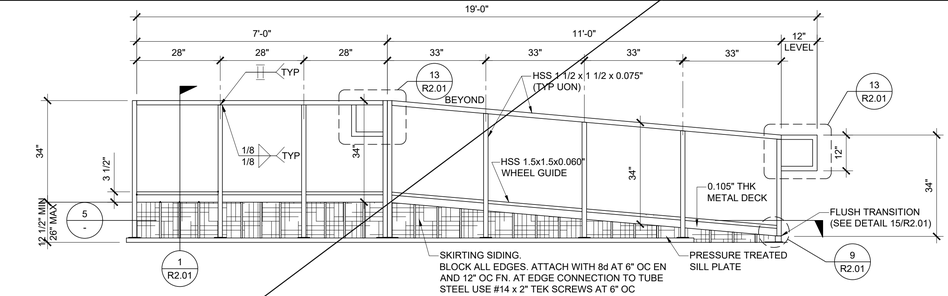
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11

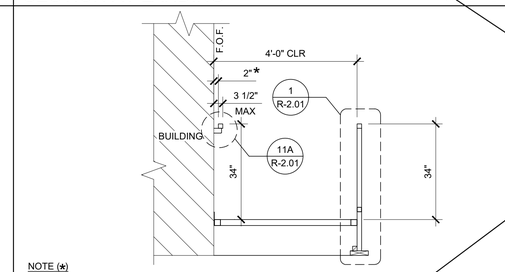
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## RAMP AND LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 2



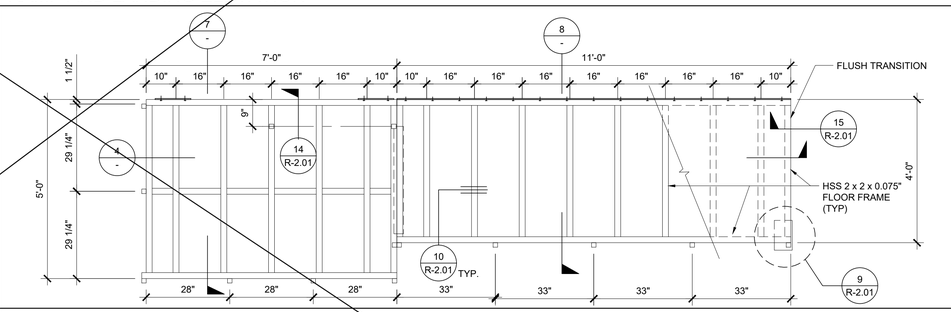

NOTE (*)

1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL

12

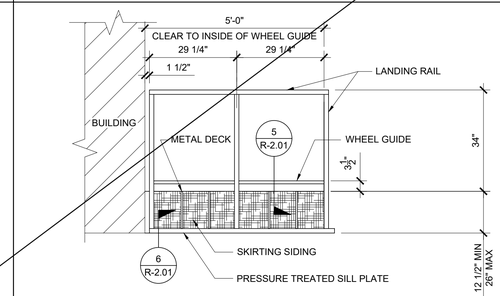
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SCALE : 1/2" = 1'-0" | 8




## RAMP FRAMING PLAN

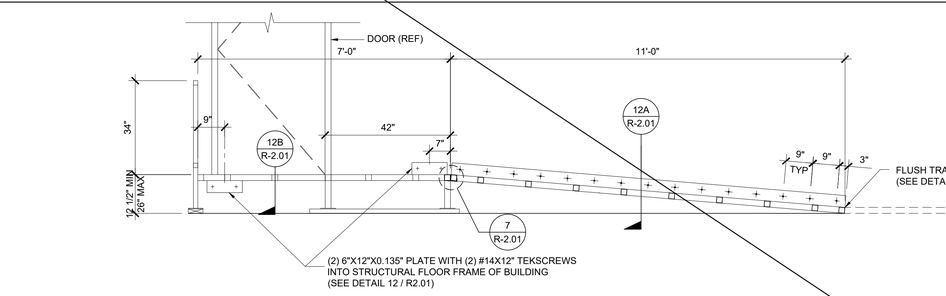
SCALE : 1/2" = 1'-0" | 3




13

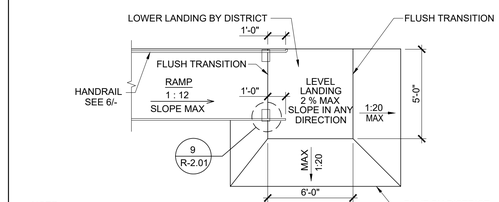
## LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 9




## SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 4



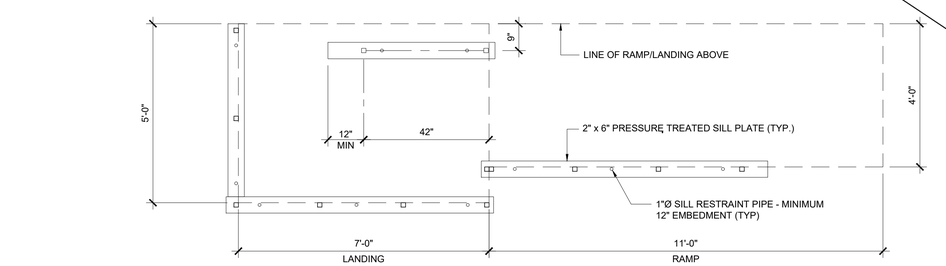

NOTE:

1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

14

## RAMP TRANSITION

SCALE: NTS | 10




## SILL PLAN FOR RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# RAMP LANDING

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

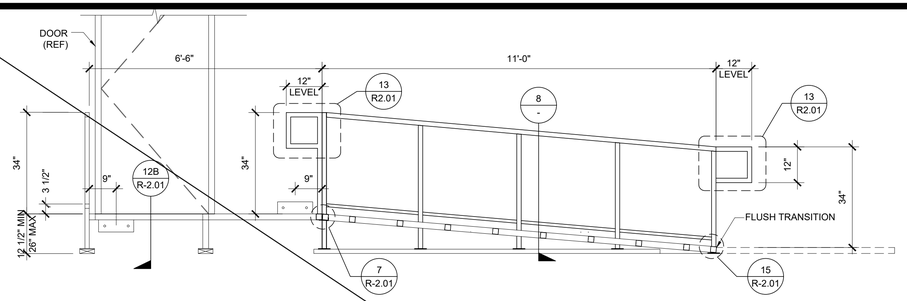
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

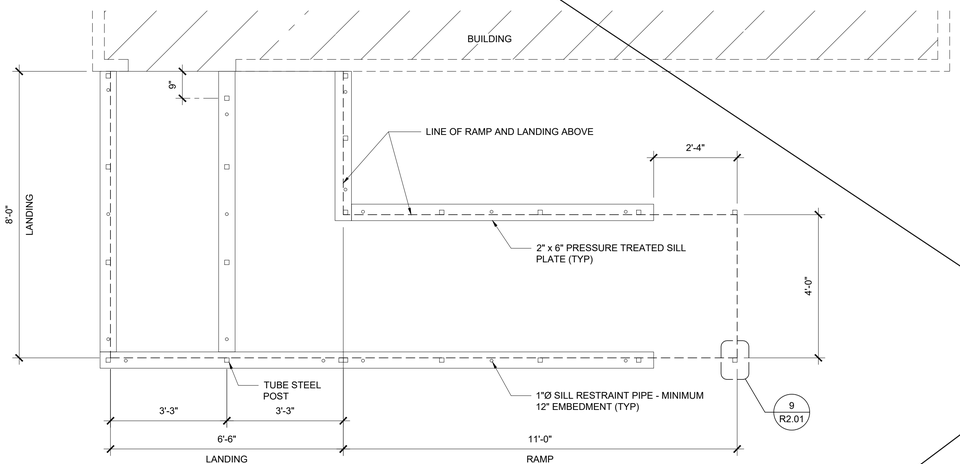
P.C. SHEET NUMBER

R-1.01



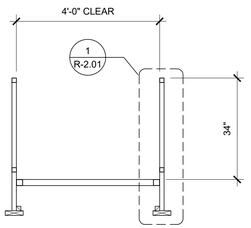

## SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 4



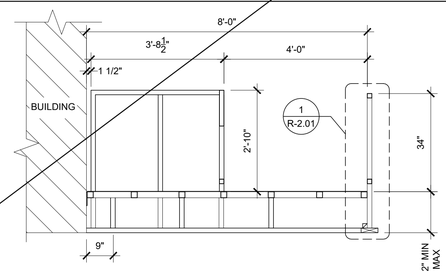

## SILL PLAN FOR RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5




## SECTION AT RAMP

SCALE : 1/2" = 1'-0" | 8




## SECTION AT LANDING

SCALE : 1/2" = 1'-0" | 6




NOTE:
1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT.
(THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

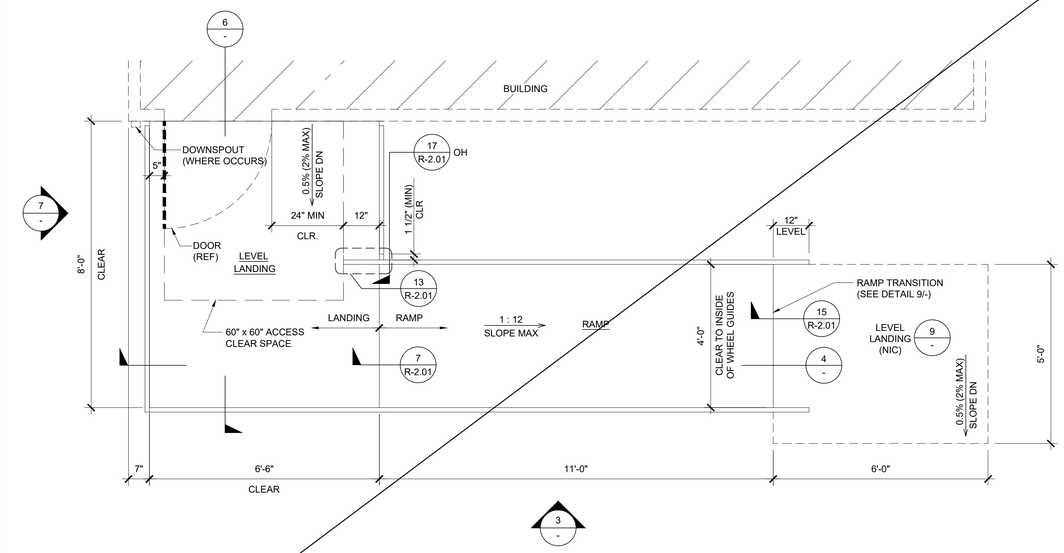
## RAMP TRANSITION

SCALE: NTS | 9



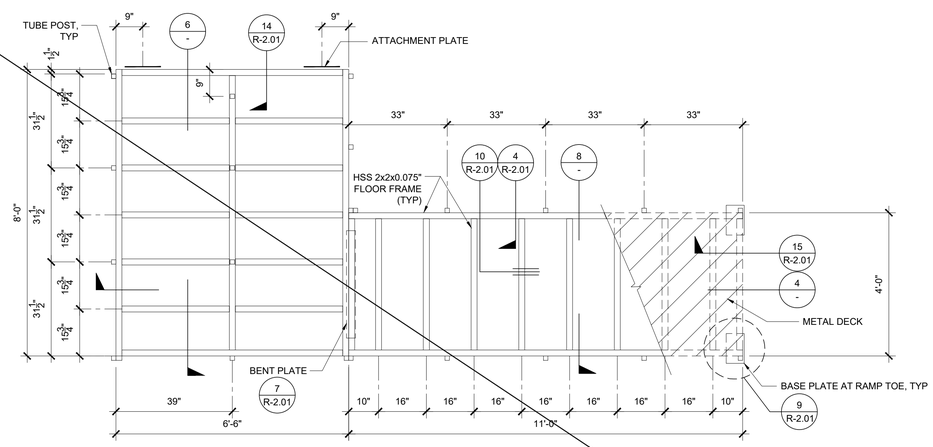

## LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 7




## RAMP AND LANDING AT BUILDING

SCALE : 1/2" = 1'-0" | 1




## RAMP FRAMING PLAN

SCALE : 1/2" = 1'-0" | 2




## RAMP AND LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# OFFSET RAMP PLAN

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

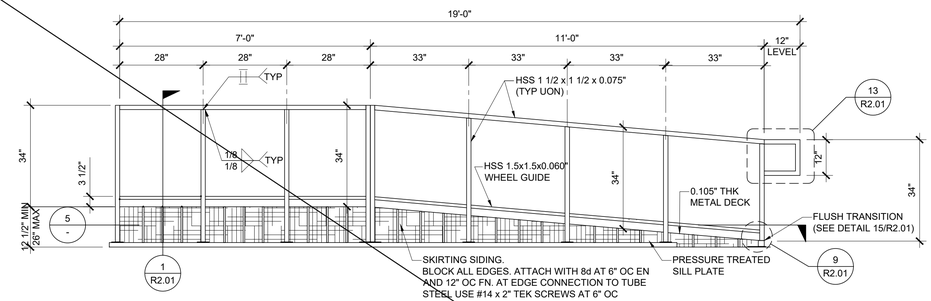
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

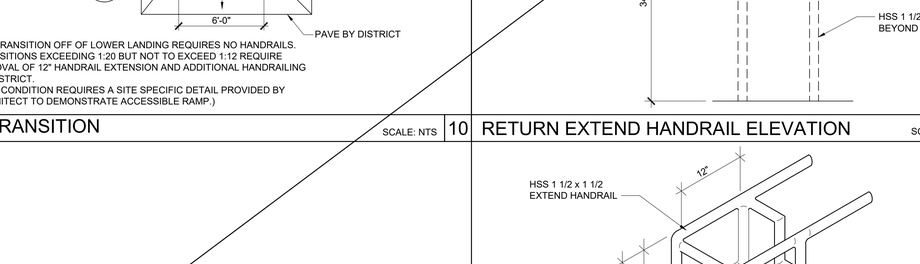
P.C. SHEET NUMBER

R-1.02



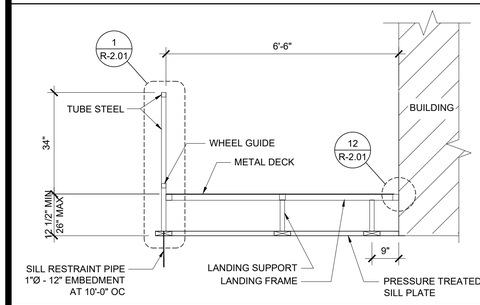

## RAMP AND LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 4



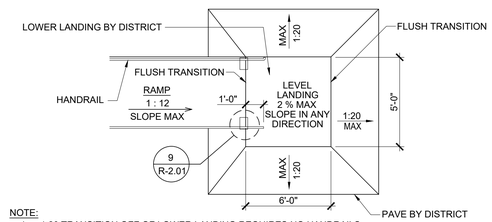

## SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5




## SECTION AT LANDING

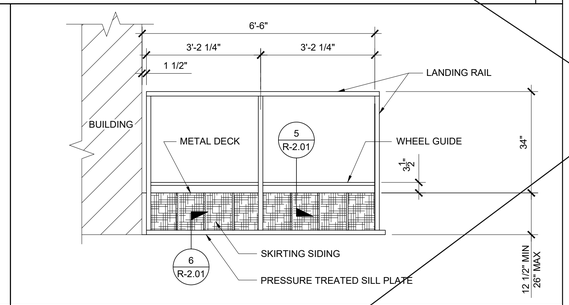
SCALE : 1/2" = 1'-0" | 9




NOTE:
1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT.
(THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

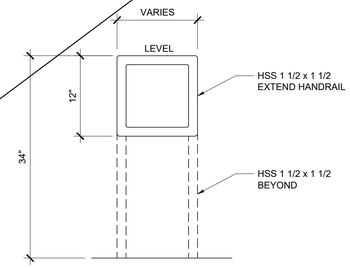
## RAMP TRANSITION

SCALE: NTS | 10



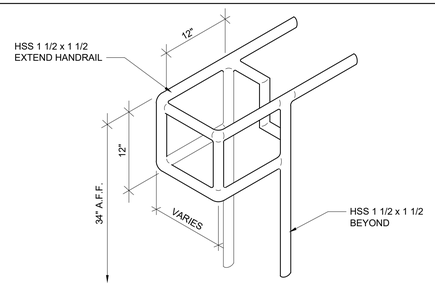

## LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 6



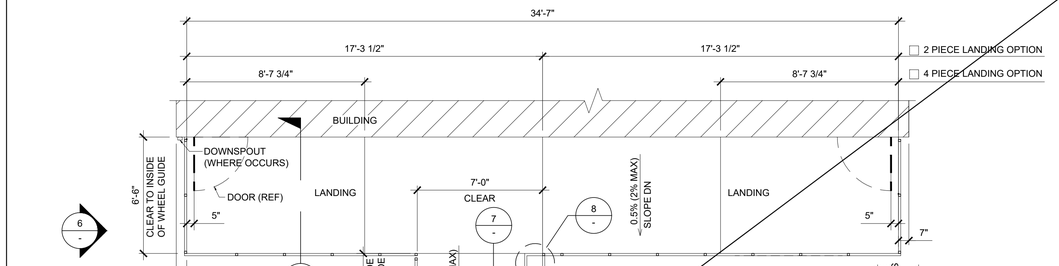

## RETURN EXTEND HANDRAIL ELEVATION

SCALE : 1" = 1'-0" | 7




## RETURN EXTEND HANDRAIL ISOMETRIC

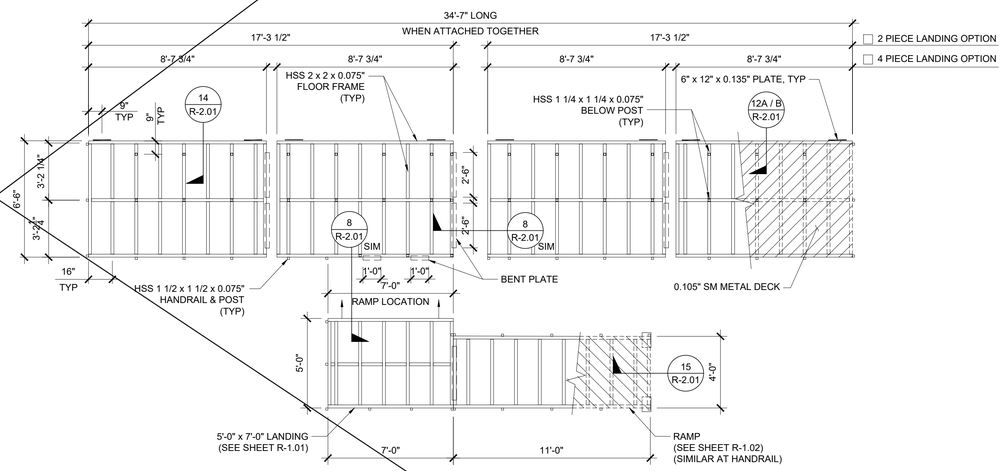
SCALE : NTS | 8




NOTE:
THIS LANDING DESIGN IS FOR USE AT THE 40'-0" MODULE SIDEWALL. IF THIS LANDING DESIGN IS USED AT THE 12'-0" MODULE ENDWALL THEN THE EDGE OF THE LANDING SHALL BE 7" CLEAR (MIN) FROM THE CORNER OF THE BUILDING.

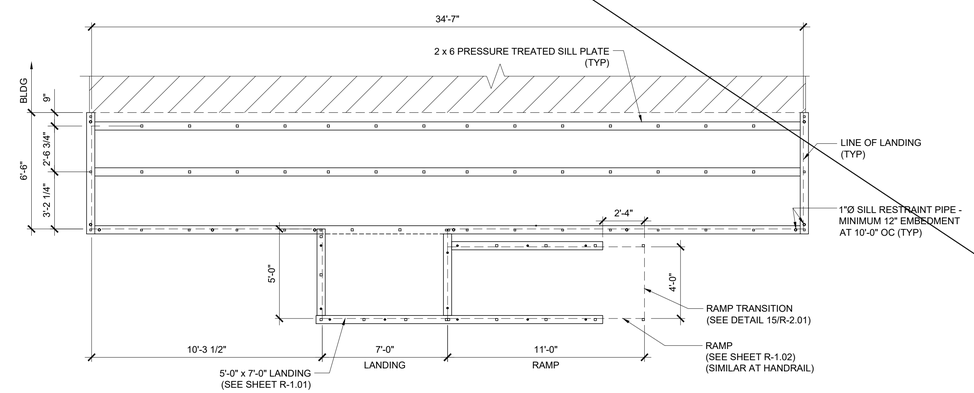
## LANDING PLAN

SCALE : 1/4" = 1'-0" | 1




## LANDING FRAME

SCALE : 1/4" = 1'-0" | 2




## SILL PLAN FOR RAMP AND LANDING

SCALE : 1/4" = 1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# RAMP LANDING

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

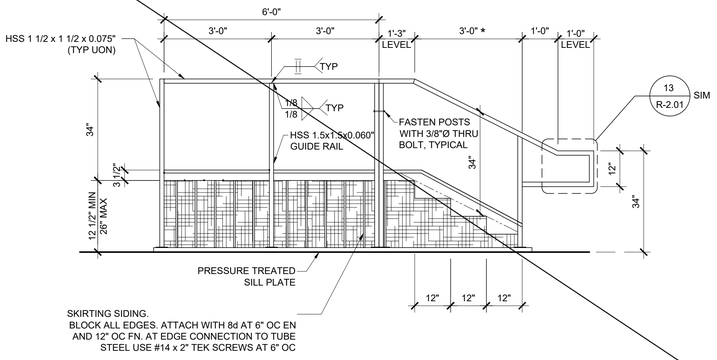
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24078 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

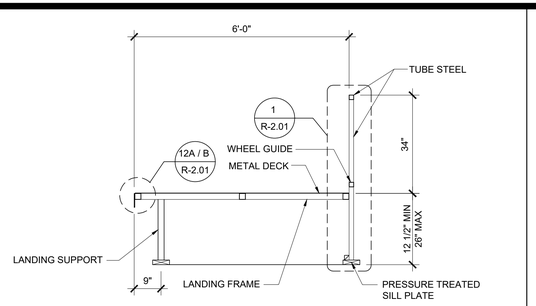
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

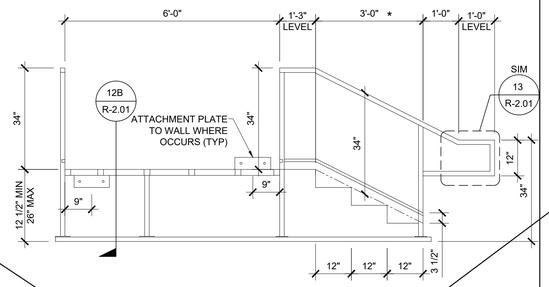
R-1.03



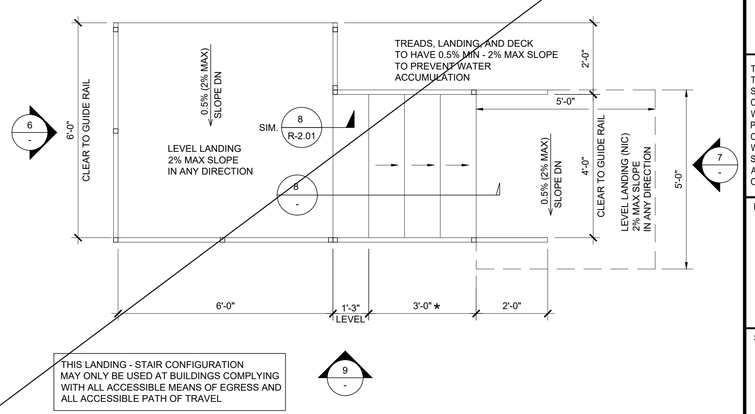

STEPS AND LANDING ELEVATION — SCALE : 1/2" = 1'-0" — 9




SECTION AT LANDING — SCALE : 1/2" = 1'-0" — 4



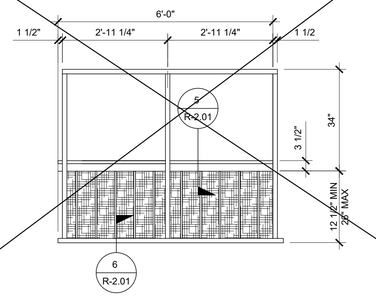

SECTION AT STEPS AND LANDING — SCALE : 1/2" = 1'-0" — 5



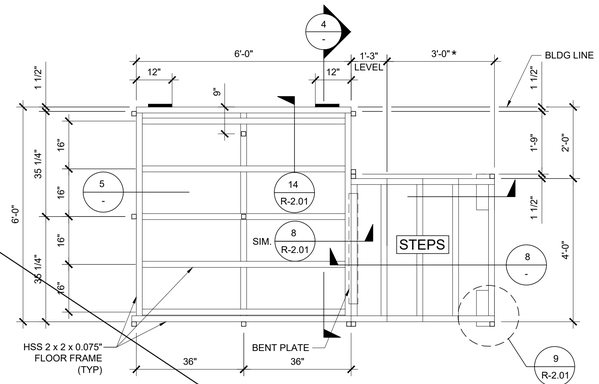

THIS LANDING - STAIR CONFIGURATION MAY ONLY BE USED AT BUILDINGS COMPLYING WITH ALL ACCESSIBLE MEANS OF EGRESS AND ALL ACCESSIBLE PATH OF TRAVEL

NOTE:
(*) NUMBER OF STEPS RISE DIMENSIONS WILL VARY. VERIFY WITH ARCHITECT BEFORE FABRICATION.

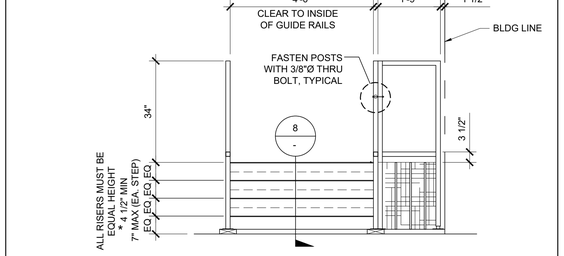
SCALE : 1/2" = 1'-0" — 1



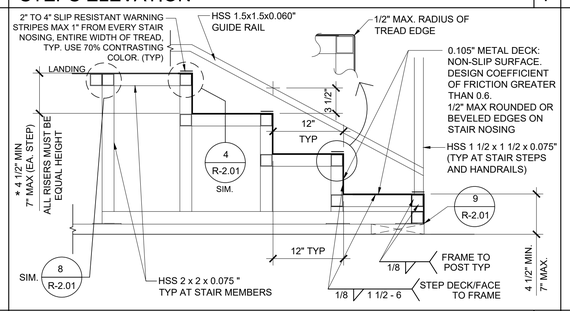

LANDING ELEVATION — SCALE : 1/2" = 1'-0" — 6



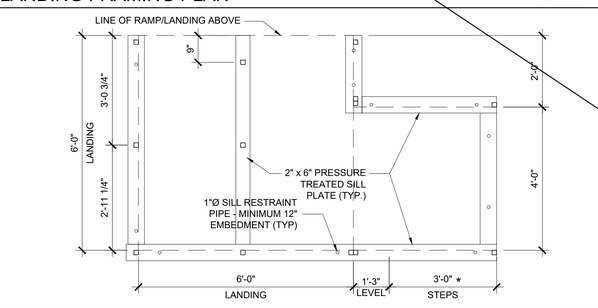

STEPS / LANDING FRAMING PLAN — SCALE : 1/2" = 1'-0" — 2




STEPS ELEVATION — 7




SECTION AT STEPS — 8




SILL PLAN FOR STEPS & LANDING — SCALE : 1/2" = 1'-0" — 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# STANDARD LANDING WITH STEPS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

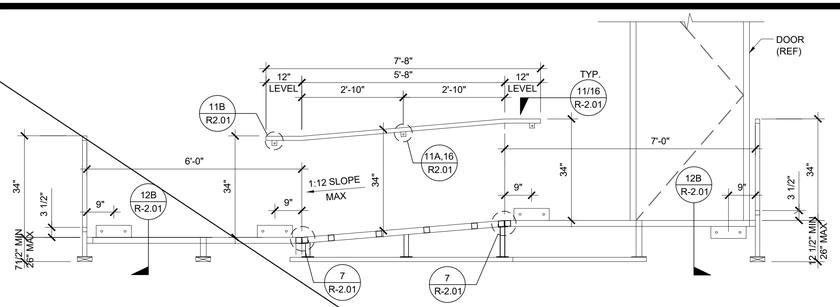
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

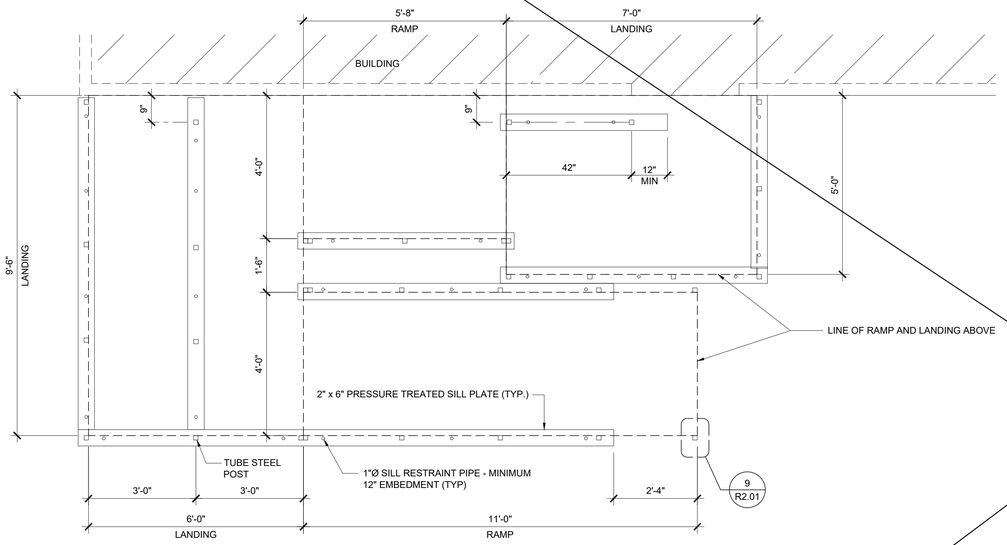
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
R-1.04



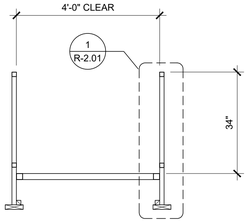

## SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 4



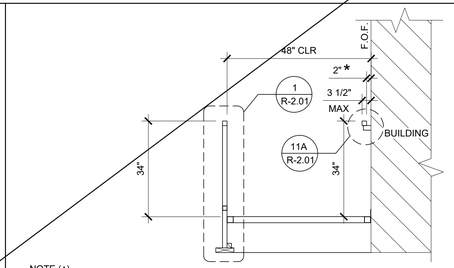

## SILL PLAN FOR RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5




## SECTION AT RAMP

SCALE : 1/2" = 1'-0" | 8

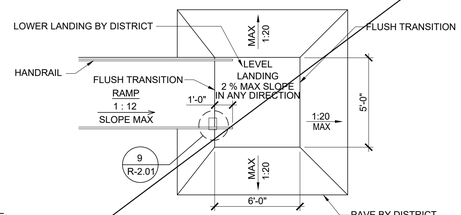



NOTE (*)

1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

## SECTION AT RAMP

SCALE : 1/2" = 1'-0" | 6

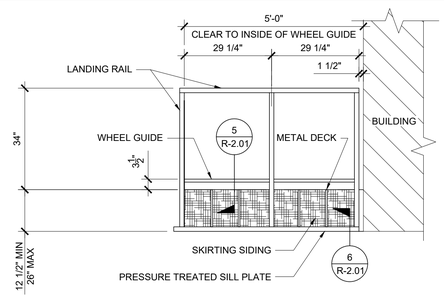



NOTE:

1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT.
   (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

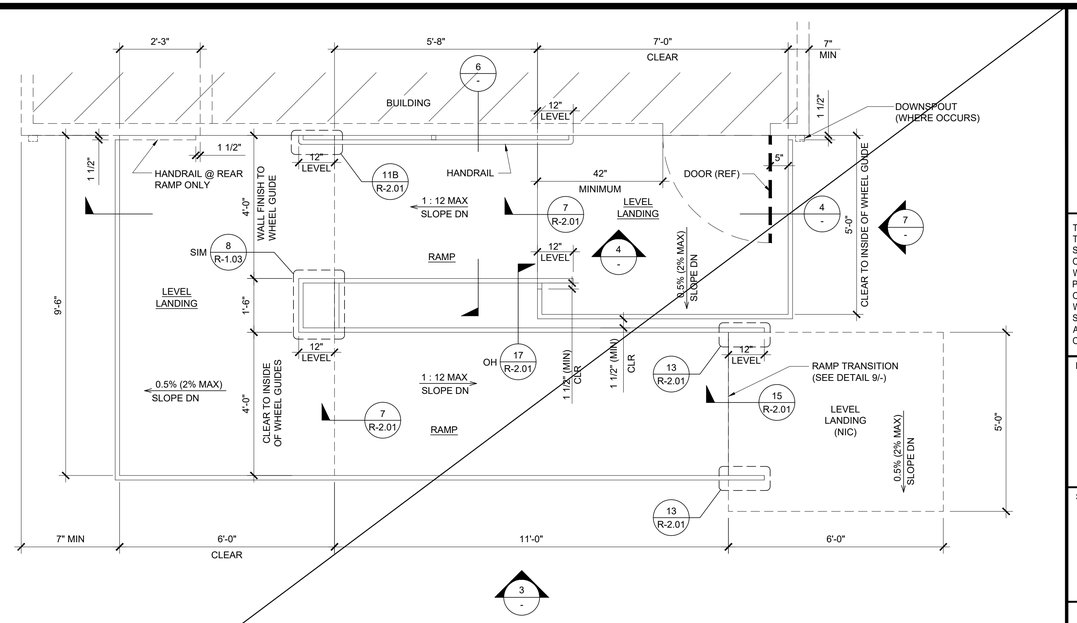
## RAMP TRANSITION

SCALE: NTS | 9



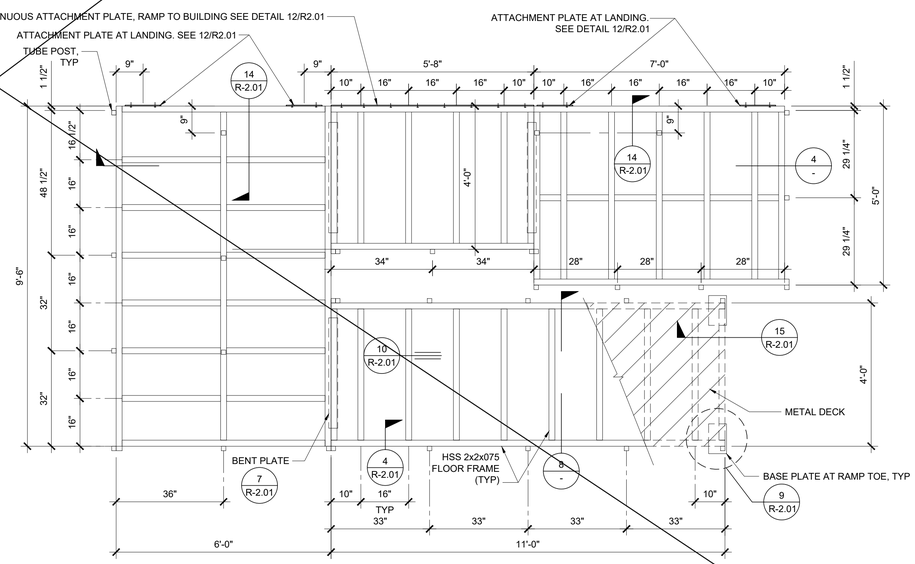

## LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 7



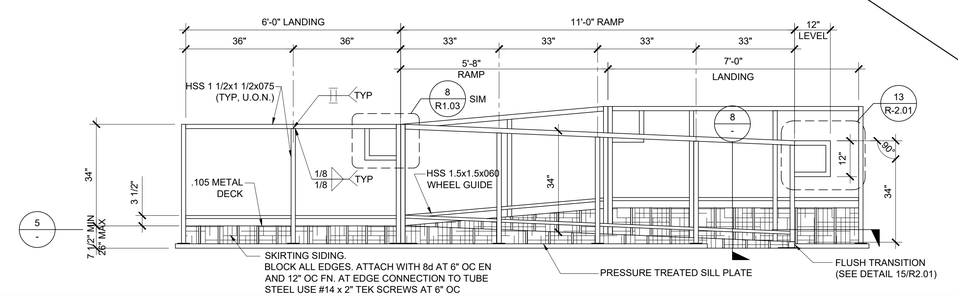

## RAMP AND LANDING AT BUILDING

SCALE : 1/2" = 1'-0" | 1




## RAMP FRAMING PLAN

SCALE : 1/2" = 1'-0" | 2




## RAMP AND LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# SWITCHBACK RAMP PLAN

REVISIONS

| | |
|---|---|
| 02/27/2026 | BID SET |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

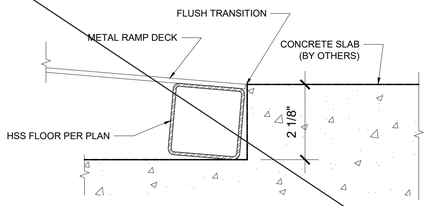
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

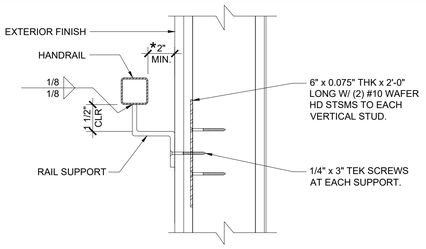
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

R-1.05




## FLUSH TRANSITION AT BOTTOM OF RAMP SCALE : 6" = 1'-0" 15

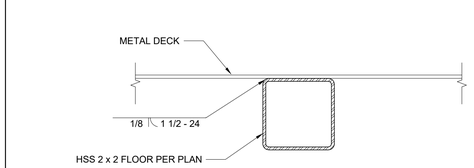



NOTE (★)
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL

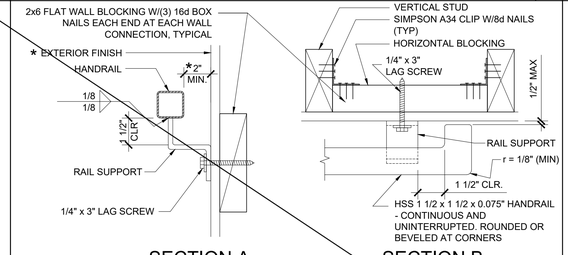
## HANDRAIL CONNECTION AT SHEETMETAL BLKG SCALE : 3" = 1'-0" 16




## RAIL NOTCH AT HANDRAIL SCALE : 6" = 1'-0" 17




## DECK TO FRAME SCALE : 6" = 1'-0" 10




SECTION A SECTION B

NOTE (★)
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL

## HANDRAIL CONNECTION AT WOOD BLOCKING SCALE : 3" = 1'-0" 11




Ⓑ LANDING @ DOOR Ⓐ RAMP & LANDING

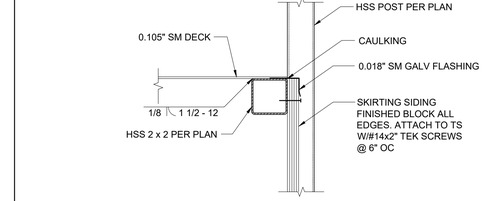
## SECTION AT PLATE SCALE : 6" = 1'-0" 12



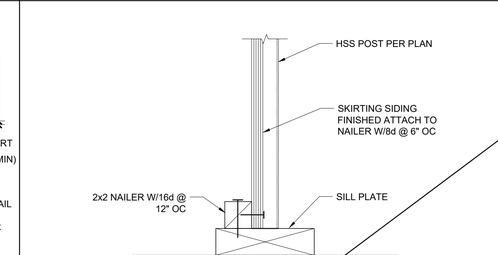

## EXTEND HANDRAIL @ TOP OR BOTT. ENDS SCALE : 3" = 1'-0" 13




## INTERIOR LANDING LEG SECTION SCALE : 3" = 1'-0" 14



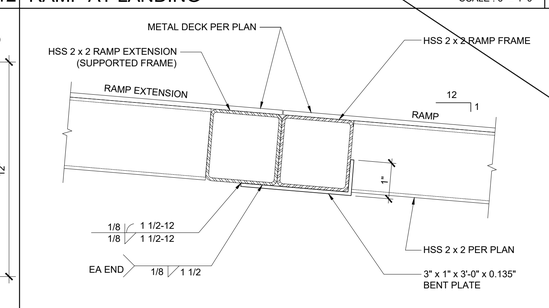

## SKIRT FLASHING SCALE : 3" = 1'-0" 5



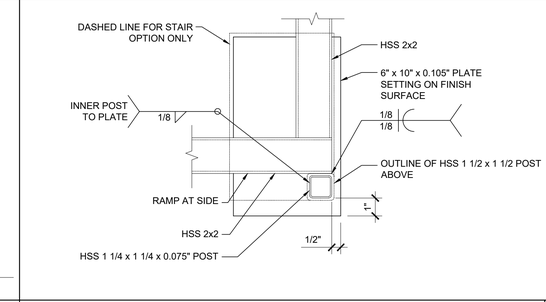

## SKIRT FLASHING AT SILL PLATE SCALE : 3" = 1'-0" 6



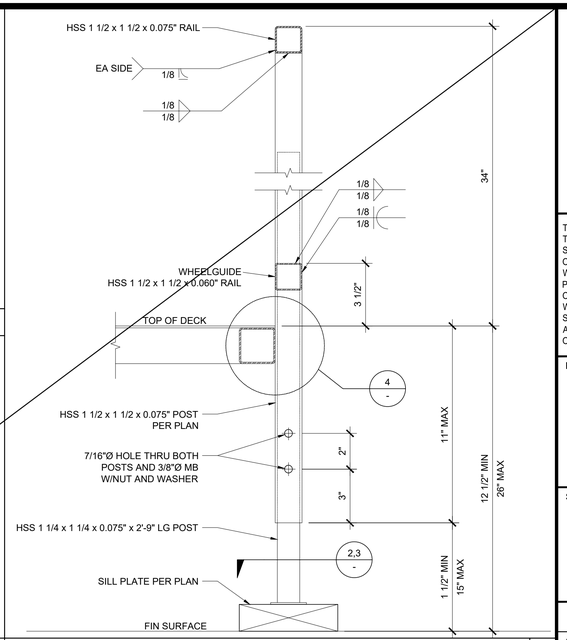

## RAMP AT LANDING SCALE : 6" = 1'-0" 7




## RAMP EXTENSION SCALE : 6" = 1'-0" 8



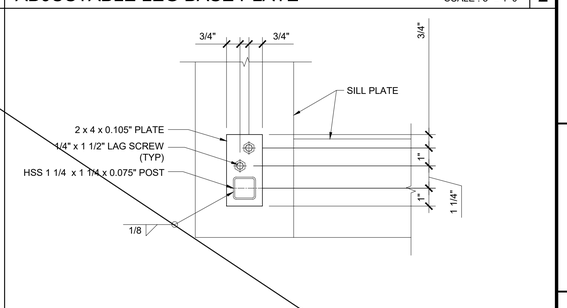

## BASE PLATE AT RAMP TOE SCALE : 3" = 1'-0" 9



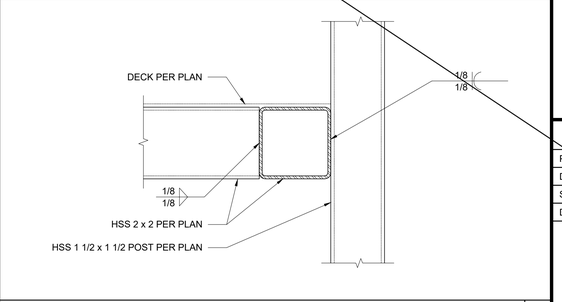

## ADJUSTABLE LEG SCALE : 3" = 1'-0" 1




## ADJUSTABLE LEG BASE PLATE SCALE : 3" = 1'-0" 2




## ADJUSTABLE LEG BASE PLATE SCALE : 3" = 1'-0" 3




## GUARDRAIL POST ATTACHMENT SCALE : 6" = 1'-0" 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# RAMP DETAILS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

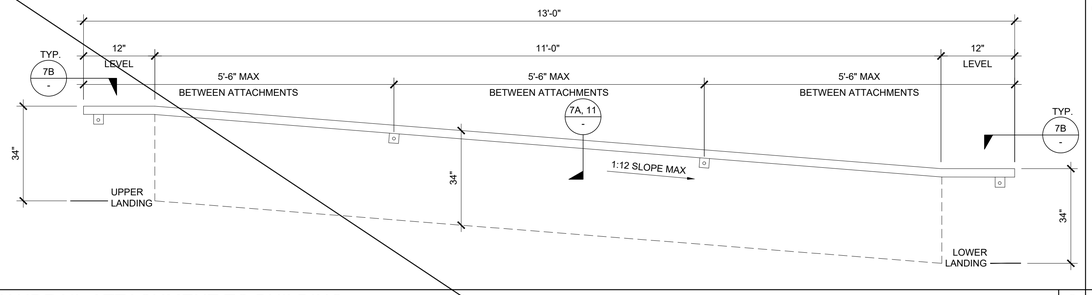
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLA 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

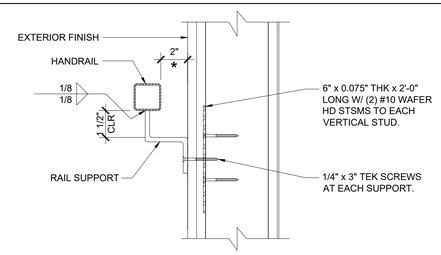
P.C. SHEET NUMBER

R-2.01




## HANDRAIL ATTACHMENT TO BUILDING

SCALE : 1" = 1'-0" | 6




NOTE (★)

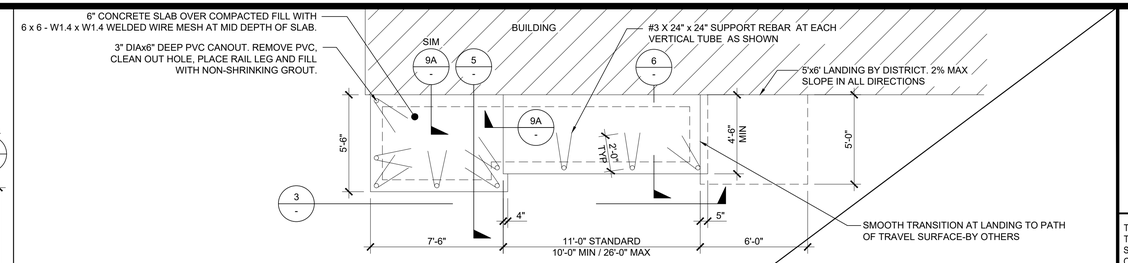
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

## HANDRAIL CONNECTION AT SHEETMETAL BLKG

SCALE : 3" = 1'-0" | 11

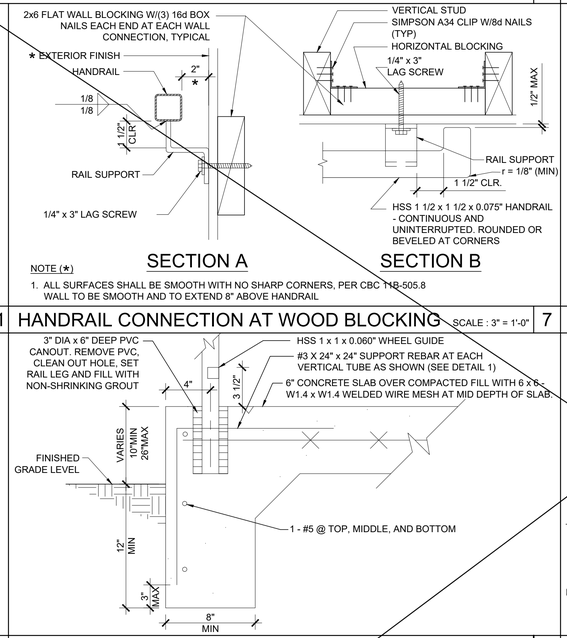
## FOUNDATION PLAN

SCALE : 1/4" = 1'-0" | 1




## HANDRAIL CONNECTION AT WOOD BLOCKING

SCALE : 3" = 1'-0" | 7




SECTION A

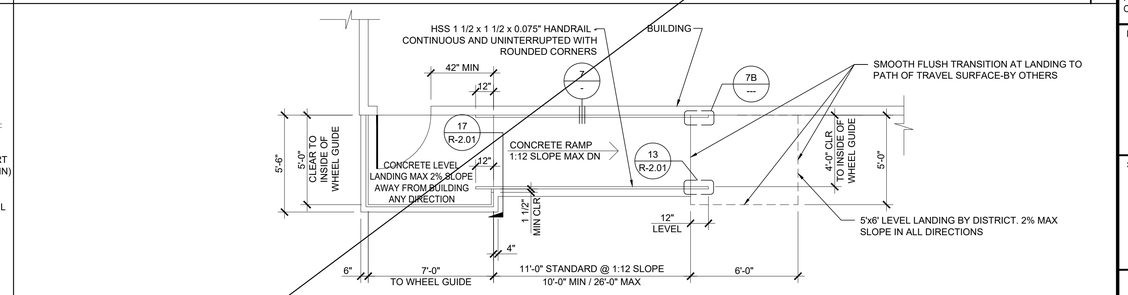
SECTION B

NOTE (★)

1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

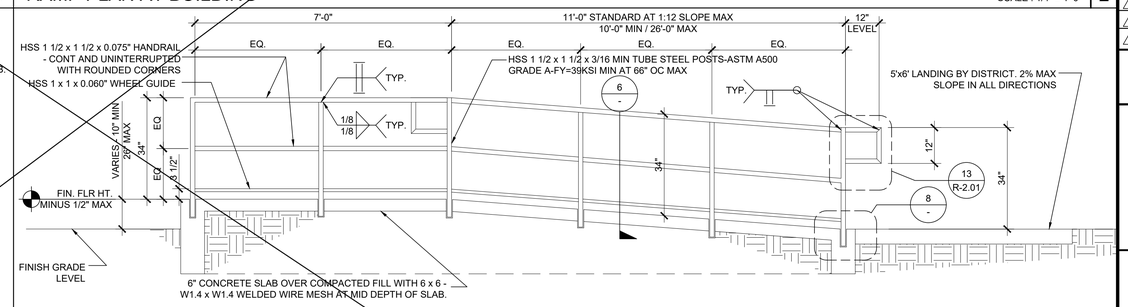
## RAMP PLAN AT BUILDING

SCALE : 1/4" = 1'-0" | 2




## RAMP / LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 3



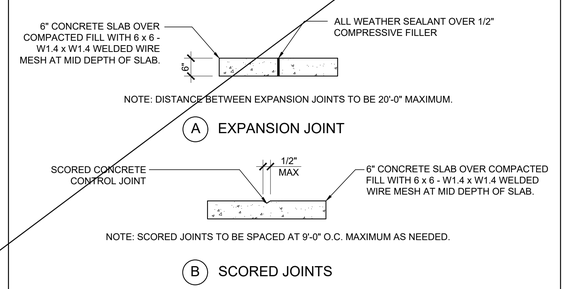

## TYPICAL CANOUT SECTION

SCALE : 1/2" = 1'-0" | 8



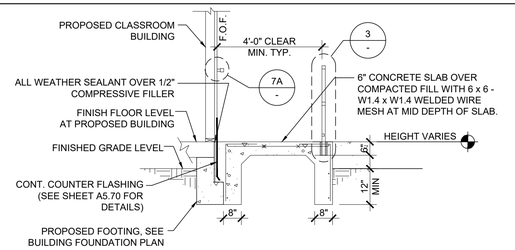

## TYPICAL CONCRETE JOINTS

SCALE : 1/2" = 1'-0" | 9




## NOT USED

4




## SECTION AT RAMP

SCALE : 3/8" = 1'-0" | 6

## NOT USED

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
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DATE: 05/09/2024

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PROJECT NAME:

SHEET TITLE:

# STANDARD CONCRETE RAMP AND DETAILS

REVISIONS
02/27/2026 BID SET
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

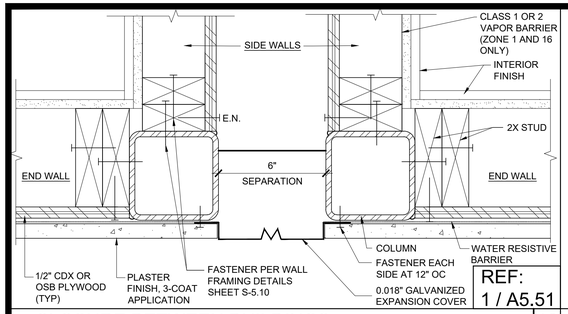
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24078 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

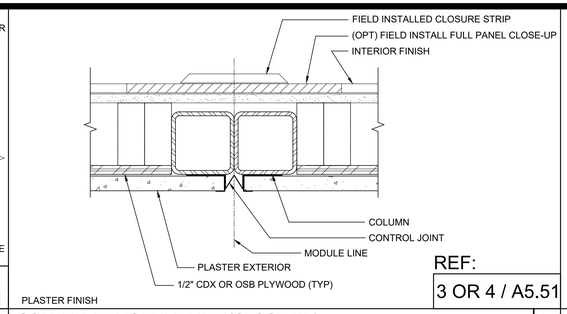
R-3.01




REF: 1 / A5.51

## CLOSURE BETWEEN BUILDINGS

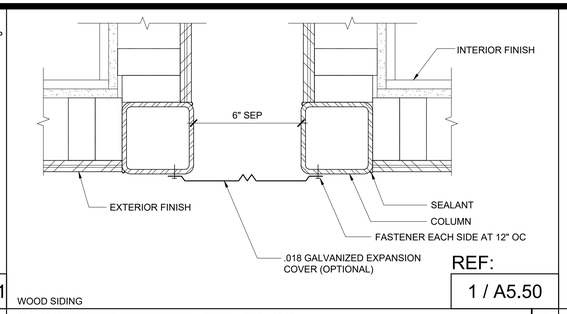
SCALE : 3"=1'-0" | 16




REF: 3 OR 4 / A5.51

## COLUMN AT MODULE LINE (CLOSE UP)

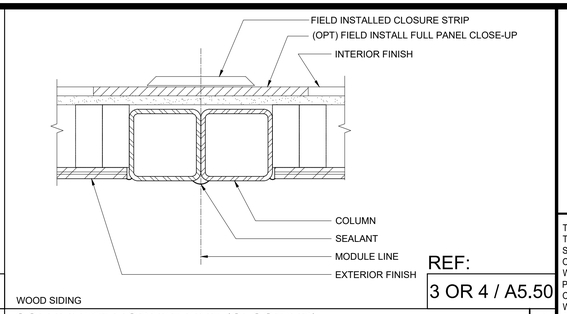
SCALE : 3"=1'-0" | 11




REF: 1 / A5.50

## CLOSURE BETWEEN BUILDINGS

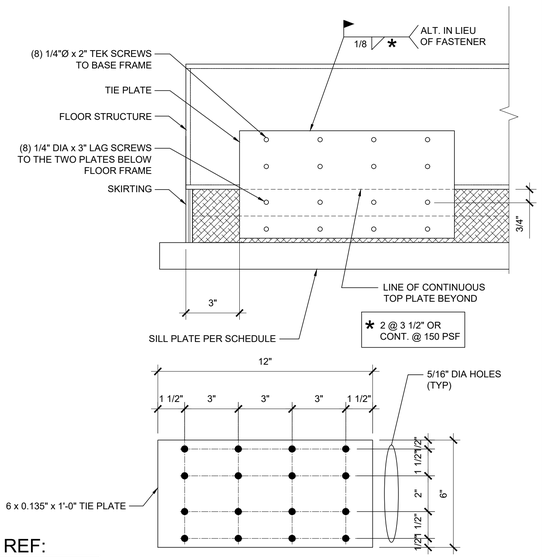
SCALE : 3"=1'-0" | 6




REF: 3 OR 4 / A5.50

## COLUMN AT MODULE LINE (CLOSE-UP)

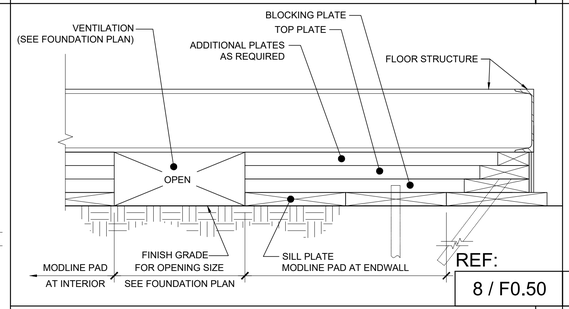
SCALE : 3"=1'-0" | 1




REF: 14 / F0.50

## TIE PLATE

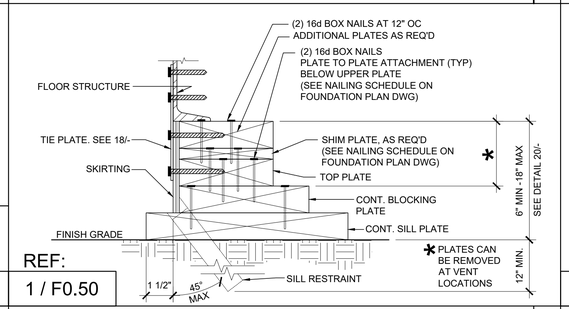
SCALE : 3"=1'-0" | 18




REF: 8 / F0.50

## FOUNDATION AT MODLINE & SEPARATION

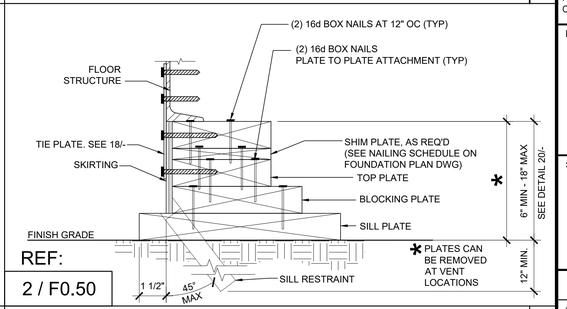
SCALE : 1 1/2"=1'-0" | 12




REF: 1 / F0.50

## FOUNDATION AT END WALL

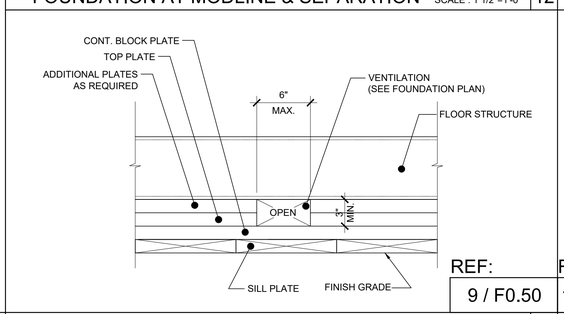
SCALE : 3"=1'-0" | 7




REF: 2 / F0.50

## FOUNDATION AT SIDE WALL

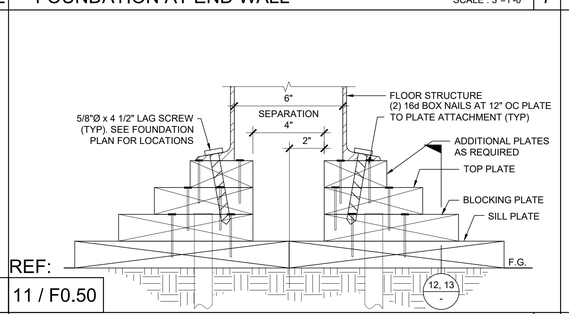
SCALE : 3"=1'-0" | 2




REF: 9 / F0.50

## VENT ELEV. AT MODLINE & SEP FOR 150 PSF

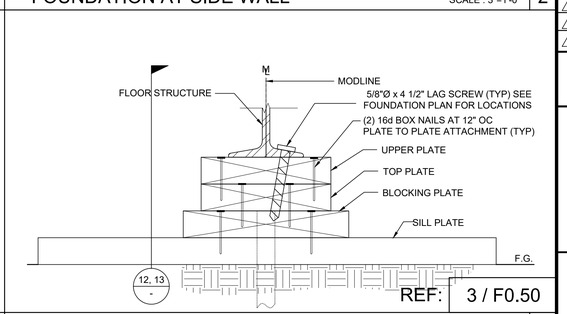
SCALE : 3"=1'-0" | 13




REF: 11 / F0.50

## FOUNDATION AT ADJACENT BUILDING

SCALE : 3"=1'-0" | 8

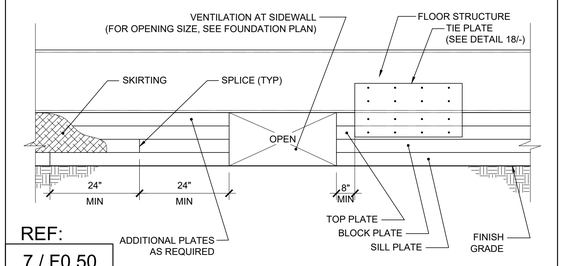



REF: 3 / F0.50

## FOUNDATION AT MODLINE

SCALE : 3"=1'-0" | 3

NOT USED | 19

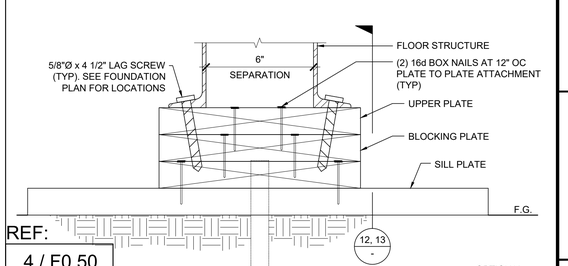



REF: 7 / F0.50

## FOUNDATION ASSEMBLY SIDEWALL ELEVATION

SCALE : 1 1/2"=1'-0" | 14

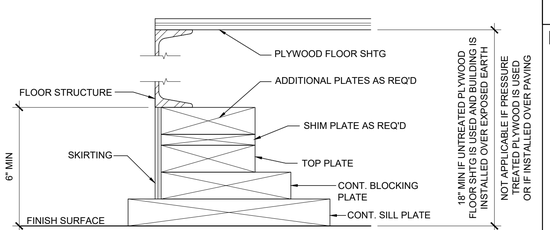
NOT USED | 9




REF: 4 / F0.50

## FOUNDATION AT ADJACENT BUILDING

SCALE : 3"=1'-0" | 4

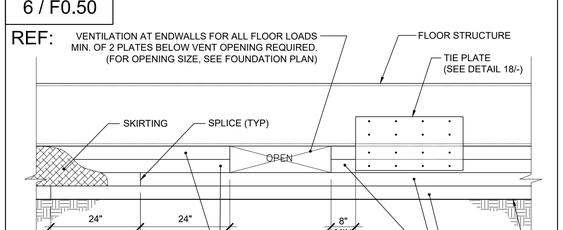



NOTE:
SEE SCHEDULE ON SHEET S-1.01 TO DETERMINE IF PRESSURE TREATED PLYWOOD FLOOR SHTG IS BEING PROVIDED

## CLEARANCE TO PLYWOOD SHTG

SCALE : 3"=1'-0" | 20

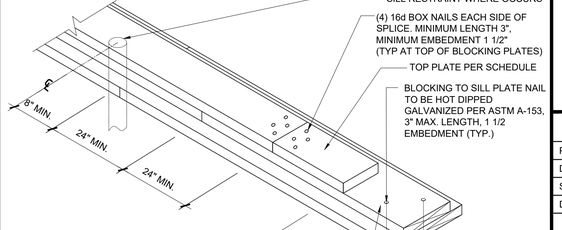
6 / F0.50




## FOUNDATION ASSEMBLY END WALL ELEVATION

SCALE : 1 1/2"=1'-0" | 15

NOT USED | 10




REF: 5 / F0.50

## FOUNDATION SPLICE

SCALE : NTS | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# BUILDING RELOCATION DETAILS

REVISIONS
02/27/2026 BID SET
1 2 3 4 5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

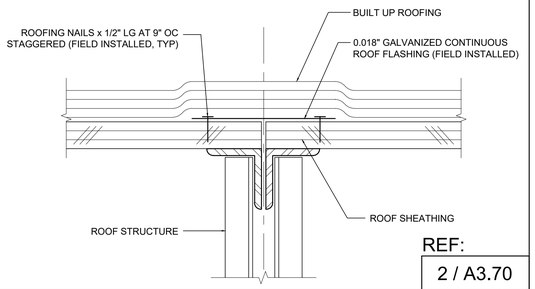
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLIN 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

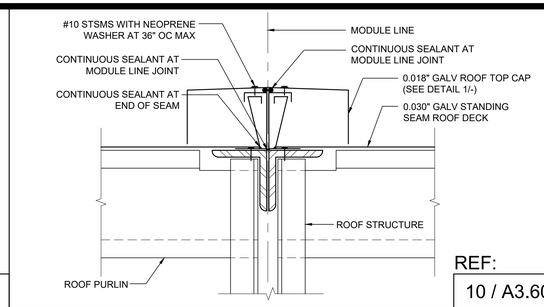
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
REL-101



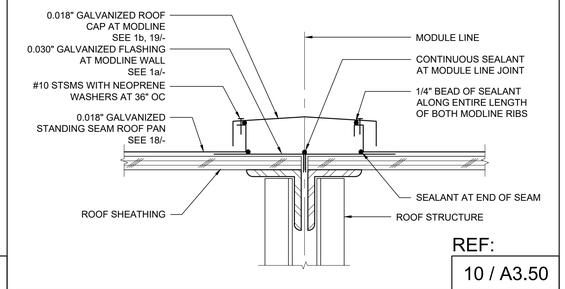

REF: 2 / A3.70

MODULE LINE CLOSURE SCALE : 6"=1'-0" 16



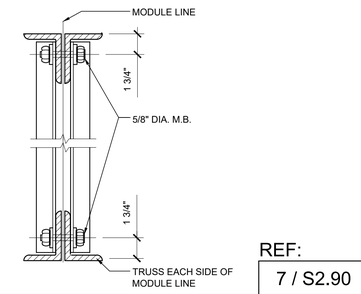

REF: 10 / A3.60

ROOF CAP AT MODULE LINE - 0.030" ROOF SCALE : 3" = 1'-0" 11



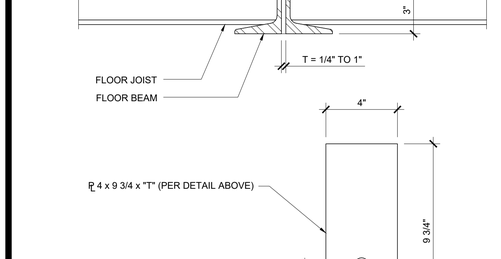

REF: 10 / A3.50

MODULE LINE ROOF CAP - 0.018" ROOF SCALE : 3"=1'-0" 6



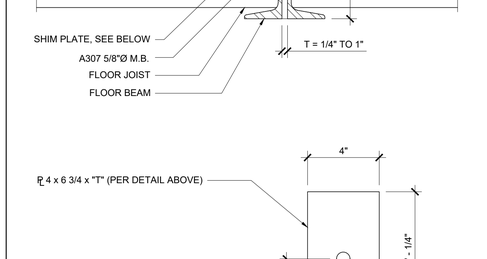

REF: 7 / S2.90

CONNECTION @ MODULE LINE SCALE : 3"=1'-0" 1



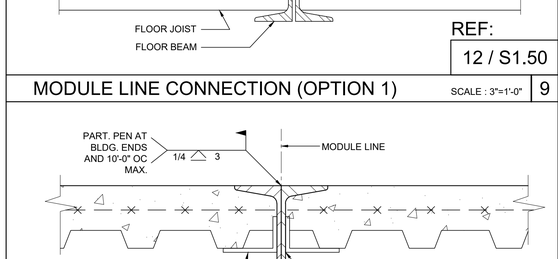

REF: 1 / A3.70

SEPARATION AT ROOF SCALE : 3"=1'-0" 17



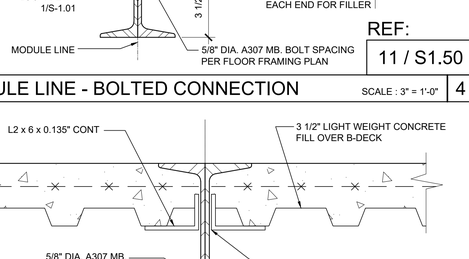

REF: 15 / A3.60

ROOF CAP AT SEPARATION - 0.030" ROOF SCALE : 3" = 1'-0" 12



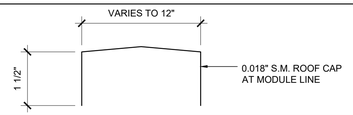

REF: 15 / A3.50

ROOF CAP AT SEPARATION - 0.018" ROOF SCALE : 3"=1'-0" 7



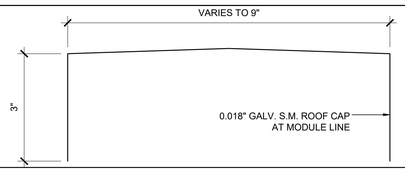

REF: 9 / S2.50
9 / S2.51

MODULE CONNECTION AT ROOF (OPTION) SCALE : 3"=1'-0" 2



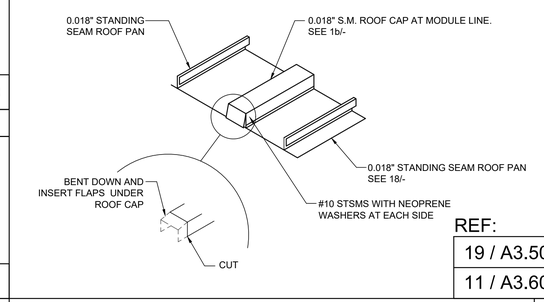

REF: 1b / A3.50

ROOF CAP AT MODULE LINE - 0.018" ROOF SCALE : 6"=1'-0"




REF: 1 / A3.60

ROOF CAP AT MODULE LINE - 0.030" ROOF SCALE : 6"=1'-0" 18

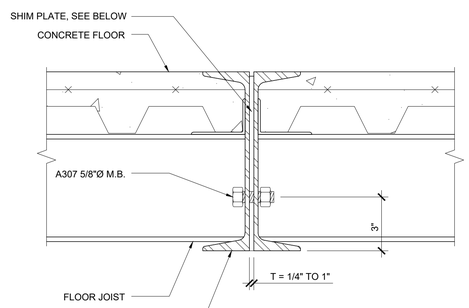



REF: 19 / A3.50
11 / A3.60

MODULE LINE ROOF CAP SCALE : NTS 13

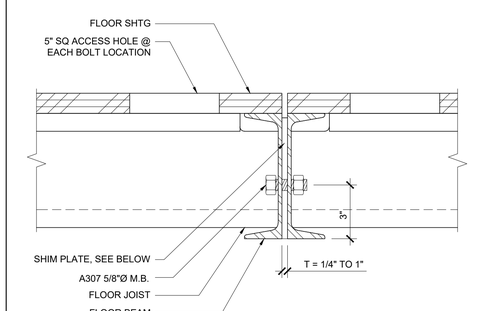
8

NOT USED 3



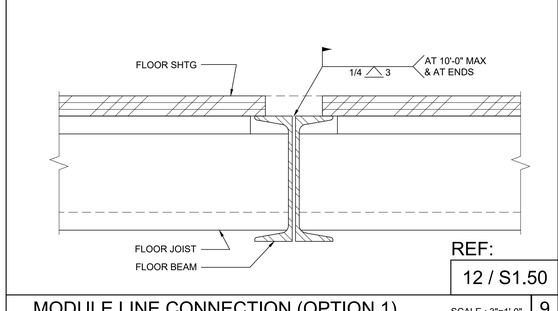

REF: 14 / S1.60

MODULE LINE CONNECTION (OPTION 2) SCALE : 3"=1'-0" 20



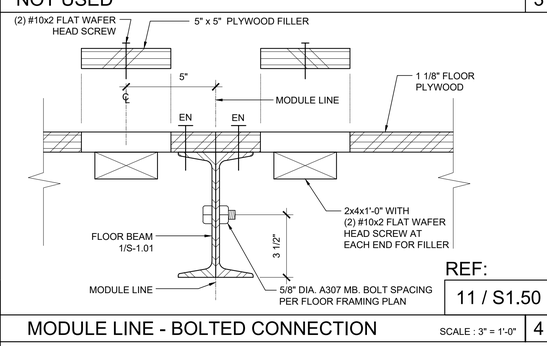

REF: 14 / S1.50

MODULE LINE CONNECTION (OPTION 2) SCALE : 3"=1'-0" 15




REF: 12 / S1.50

MODULE LINE CONNECTION (OPTION 1) SCALE : 3"=1'-0" 9




REF: 11 / S1.50

MODULE LINE - BOLTED CONNECTION SCALE : 3" = 1'-0" 4




REF: 12 / S1.60

MODULE LINE CONNECTION (OPTION 1) SCALE : 3" = 1'-0" 10




REF: 11 / S1.60

MODULE LINE - BOLTED CONNECTION SCALE : 3" = 1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123590 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/09/2024

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# BUILDING RELOCATION DETAILS

REVISIONS
02/27/2026 BID SET
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

REL-102

USASHADE & Fabric Structures, Inc.

# FABRIC SHADE STRUCTURE

## DSA P.C. 04-123501

| ✓ | SHEET NO. | SHEET DESCRIPTION | UNIT STRUCTURE TYPE | MAX. UNIT SIZE | UNIT MODEL NUMBER |
|---|---|---|---|---|---|
| X | T-1.0 | TITLE SHEET | | | |
| X | T-2.0 | UNIT SELECTION | | | |
| X | T-3.0 | T&I FORMS | | | |
| | 1.1-1000 | PRODUCT INFORMATION | HIP | 20' x 30' x 15' | DSA4012030-22 |
| | 1.2-2000 | REACTIONS | HIP | 20' x 30' x 15' | DSA4012030-22 |
| | 2.1-1000 | PRODUCT INFORMATION | HIP | 30' x 30' x 15' | DSA4013030-22 |
| | 2.2-2000 | REACTIONS | HIP | 30' x 30' x 15' | DSA4013030-22 |
| | 3.1-1000 | PRODUCT INFORMATION | HIP | 30' x 40' x 15' | DSA4013040-22 |
| | 3.2-2000 | REACTIONS | HIP | 30' x 40' x 15' | DSA4013040-22 |
| | 4.1-1000 | PRODUCT INFORMATION | HIP | 40' x 40' x 15' | DSA4014040-22 |
| | 4.2-2000 | REACTIONS | HIP | 40' x 40' x 15' | DSA4014040-22 |
| | 5.1-1000 | PRODUCT INFORMATION | HIP | 20' x 30' x 12' | DSA401203012-22 |
| | 5.2-2000 | REACTIONS | HIP | 20' x 30' x 12' | DSA401203012-22 |
| | 6.1-1000 | PRODUCT INFORMATION | HIP | 30' x 30' x 12' | DSA401303012-22 |
| | 6.2-2000 | REACTIONS | HIP | 30' x 30' x 12' | DSA401303012-22 |
| | 7.1-1000 | PRODUCT INFORMATION | HIP | 30' x 40' x 12' | DSA401304012-22 |
| | 7.2-2000 | REACTIONS | HIP | 30' x 40' x 12' | DSA401304012-22 |
| | 8.1-1000 | PRODUCT INFORMATION | HIP (20 psf SNOW LOAD) | 20' x 30' x 15' | DSA401S2030-22 |
| | 8.2-2000 | REACTIONS | HIP (20 psf SNOW LOAD) | 20' x 30' x 15' | DSA401S2030-22 |
| | 9.1-1000 | PRODUCT INFORMATION | JOINED HIPS | VARIES | DSA401J-22 |
| | 9.2-1001 | DETAILS | JOINED HIPS | VARIES | DSA401J-22 |
| | 9.3-2000 | REACTIONS | JOINED HIPS | VARIES | DSA401J-22 |
| | 10.1-1000 | PRODUCT INFORMATION | QUAD JOINED HIPS | VARIES | DSA401Q-22 |
| | 10.2-1001 | DETAILS | QUAD JOINED HIPS | VARIES | DSA401Q-22 |
| | 10.3-2000 | REACTIONS | QUAD JOINED HIPS | VARIES | DSA401Q-22 |
| | 11.1-1000 | PRODUCT INFORMATION | FULL CANTILEVER HIP SINGLE | 20' x 30' x 15' | DSA2022030-22 |
| | 11.2-2000 | REACTIONS | FULL CANTILEVER HIP SINGLE | 20' x 30' x 15' | DSA2022030-22 |
| | 12.1-1000 | PRODUCT INFORMATION | FULL CANTILEVER HIP JOINED | 20' x 200' x 15' | DSA3022060-22 |
| | 12.2-2000 | REACTIONS | FULL CANTILEVER HIP JOINED | 20' x 200' x 15' | DSA3022060-22 |
| | 13.1-1000 | PRODUCT INFORMATION | SINGLE POST PYRAMID | 14' x 14' x 12' | DSA1031414-22 |
| | 13.2-2000 | REACTIONS | SINGLE POST PYRAMID | 14' x 14' x 12' | DSA1031414-22 |
| | 14.1-1000 | PRODUCT INFORMATION | SINGLE POST PYRAMID | 20' x 20' x 12' | DSA1032020-22 |
| | 14.2-2000 | REACTIONS | SINGLE POST PYRAMID | 20' x 20' x 12' | DSA1032020-22 |
| | 15.1-1000 | PRODUCT INFORMATION | SINGLE POST PYRAMID CANTILEVER | 14' x 14' x 12' | DSA1241414-22 |
| | 15.2-2000 | REACTIONS | SINGLE POST PYRAMID CANTILEVER | 14' x 14' x 12' | DSA1241414-22 |
| | 16.1-1000 | PRODUCT INFORMATION | SINGLE POST PYRAMID CANTILEVER | 20' x 20' x 12' | DSA1242020-22 |
| | 16.2-2000 | REACTIONS | SINGLE POST PYRAMID CANTILEVER | 20' x 20' x 12' | DSA1242020-22 |
| | 17.1-1000 | PRODUCT INFORMATION | MARINER PEAK | 30' x 30' x 15' | DSA4073030-22 |
| | 17.2-2000 | REACTIONS | MARINER PEAK | 30' x 30' x 15' | DSA4073030-22 |
| | 18.1-1000 | PRODUCT INFORMATION | MARINER PEAK | 30' x 40' x 18' | DSA4073040-22 |
| | 18.2-2000 | REACTIONS | MARINER PEAK | 30' x 40' x 18' | DSA4073040-22 |
| | 19.1-1000 | PRODUCT INFORMATION | MARINER PEAK JOINED | 30' x 133' x 15' | DSA407J3060-22 |
| | 19.2-2000 | REACTIONS | MARINER PEAK JOINED | 30' x 133' x 15' | DSA407J3060-22 |
| | 20.1-1000 | PRODUCT INFORMATION | MARINER PEAK QUAD | 60' x 60' x 15' | DSA407Q6060-22 |
| | 20.2-2000 | REACTIONS | MARINER PEAK QUAD | 60' x 60' x 15' | DSA407Q6060-22 |
| | 21.1-1000 | PRODUCT INFORMATION | TRI TRUSS HIP SINGLE WIDE | 20' x 30' x 15' | DSA2062030-22 |
| | 21.2-2000 | REACTIONS | TRI TRUSS HIP SINGLE WIDE | 20' x 30' x 15' | DSA2062030-22 |
| | 22.1-1000 | PRODUCT INFORMATION | TRI TRUSS HIP JOINED | 20' x 200' x 15' | DSA3052060-22 |
| | 22.2-2000 | REACTIONS | TRI TRUSS HIP JOINED | 20' x 200' x 15' | DSA3052060-22 |
| X | 23.1-1000 | PRODUCT INFORMATION | TENSION SAILS THREE POINT | 30' x 133' x 15' | DSA30730-22 |
| X | 23.2-2000 | REACTIONS | TENSION SAILS THREE POINT | 30' x 133' x 15' | DSA30730-22 |
| | 24.1-1000 | PRODUCT INFORMATION | TENSIONS SAILS FOUR POINT | 20' x 200' x 15' | DSA4182020-22 |
| | 24.2-2000 | REACTIONS | TENSIONS SAILS FOUR POINT | 20' x 200' x 15' | DSA4182020-22 |
| X | 25.1-1000 | PRODUCT INFORMATION | TENSIONS SAILS FOUR POINT | 30' x 133' x 15' | DSA4183030-22 |
| X | 25.2-2000 | REACTIONS | TENSIONS SAILS FOUR POINT | 30' x 133' x 15' | DSA4183030-22 |
| | 26.1-1000 | PRODUCT INFORMATION | TRIANGLE | 25' x 25' x 15' | DSA30125-22 |
| | 26.2-2000 | REACTIONS | TRIANGLE | 25' x 25' x 15' | DSA30125-22 |
| | 27.1-1000 | PRODUCT INFORMATION | TRIANGLE | 40' x 40' x 15' | DSA30140-22 |
| | 27.2-2000 | REACTIONS | TRIANGLE | 40' x 40' x 15' | DSA30140-22 |
| | 28.1-1000 | PRODUCT INFORMATION | HEXAGON | Ø40' X 15' | DSA60340-22 |
| | 28.2-2000 | REACTIONS | HEXAGON | Ø40' X 15' | DSA60340-22 |
| | 29.1-1000 | PRODUCT INFORMATION | HEXAGON | Ø60' X 15' | DSA60360-22 |
| | 29.2-2000 | REACTIONS | HEXAGON | Ø60' X 15' | DSA60360-22 |

TOTAL SHEET COUNT: 63 SHEETS

### SHEET INDEX

### GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
3. SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.
4. PRIOR TO SUBMITTAL ARCHITECT OF RECORD SHALL IDENTIFY PC MODEL(S) SELECTED BY END USER ON SHEETS T-1.0 AND T-2.0 BY CHECKING THE APPROPRIATE BOX ASSOCIATED WITH SELECTED PC MODEL(S). EXCLUDE SHEETS FOR MODELS NOT SELECTED.

### PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

1. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
2. PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B). INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
3. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
4. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
5. INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
6. SHOW LOCATION OF AUDIBLE FIRE ALARM.
7. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B, & C", RESPECTIVELY, IN ASCE/SEI 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
8. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
9. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

FOR SNOW LOAD MODELS ONLY:

10. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL (ASCE 7-16).
11. ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

### P.C. NOTES

### PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

### LIST OF APPLICABLE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C,C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

### APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

### APPLICABLE CODES

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFFESIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SEISMIC

SELECT ONE

- ☐ DESIGN BASED ON SITE CLASS $D_{default}$
  NO GEOTECHNICAL INVESTIGATION REQUIRED
  Ss = _____ Fa = 1.2
- ☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
  GEOTECHNICAL INVESTIGATION PROVIDED
  SITE CLASS: ☐ C ☐ D
  Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1
- ☐ DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS
  PER CHAPTER 21 OF ASCE 7-16
  SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, $S_{DS}$, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
  CGS APPROVAL REQUIRED
  NOT ELIGIBLE FOR OTC REVIEW
  SITE CLASS: ☐ C ☐ D

$S_{DS} = 2/3\ Fa\ Ss = _____ \leq 2.0$

Cs = 1.6 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☐ D ☐ E

| CODE ANALYSIS | | | |
|---|---|---|---|
| OCCUPANCY GROUP | OCCUPANT LOAD FACTOR | TOTAL OCCUPANT LOAD | SHADE STRUCTURE AREA ($ft^2$) |
| | | | |

### SITE SPECIFIC PARAMETERS

### MANUFACTURER:

USA SHADE & FABRIC STRUCTURES
2580 ESTERS BOUVLEVARD, SUITE 100
DFW AIRPORT, TEXAS 75261
PH. 800-966-5005
W. www.usa-shade.com

### ARCHITECT:

HIGGINSON ARCHITECTS, INC.
DAVID HIGGINSON, AIA, PRINCIPAL ARCHITECT
34247 YUCAIPA BOULEVARD, SUITE D
YUCAIPA, CALIFORNIA 92399
PH. 909-499-0058
E. dhigginson@higginsonarchitects.com
W. www.higginsonarchitects.com

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA

8/19/24

### STRUCTURAL ENGINEER:

MARK LOWE, S.E.
c/o USA SHADE AND FABRIC STRUCTURES

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT LOWE No. 36031 STRUCTURAL STATE OF CALIFORNIA

8/23/2024

### ARCHITECT / ENGINEER

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

**CERTIFICATIONS:**
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**
Rosemead Elementary S.D.

**PROJECT NAME:**
Mildred B. Janson E.S.

**LOCATION:**
8628 Marshall Street
Rosemead, CA 91770

**MODEL NUMBER:**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

**STRUCTURE TYPE:**

**SCALE : VARIES**

**DRAWING SIZE:** D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | DWH | 8/19/23 |
| Design By : | DWH | 8/19/23 |
| Approved By : | DWH | 8/19/23 |

**DRAWING DESCRIPTION:**

**DWG.** TITLE SHEET

**SHEET** T-1.0

**REV.**

LICENSED ARCHITECT HELENA L. JUBENKO 22214 RENEWAL 5-31-27 STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY ARE SPECIFICALLY PREPARED, EXCEPT BY AGREEMENT IN WRITING.

MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST., ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P.323.475.8075

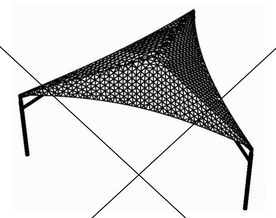
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|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

TITLE SHEET

**T-1.0**

NEW SHEET

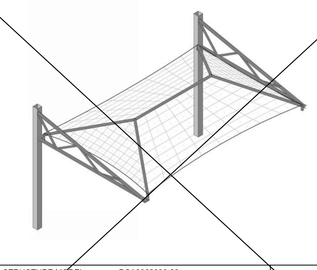
© 2021 NAC Inc.



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA30125-22 | SEE SHEET 26,1-1000 |
| MAX. SIZE: | 25' x 25' x 15' | |
| MAX. AREA: | 271 SQ. FT., | |
| MAX. OCCUPANCY: | 18 PERSONS | |
| STRUCTURE MODEL: | DSA30140-22 | SEE SHEET 27,1-1000 |
| MAX. SIZE: | 40' x 40' x 15' | |
| MAX. AREA: | 692 SQ. FT., | |
| MAX. OCCUPANCY: | 46 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

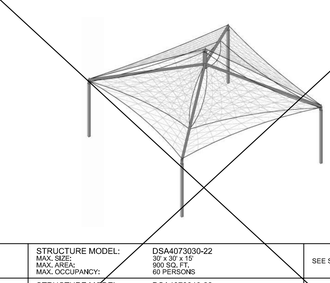
## TRIANGLE



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA2062030-22 | SEE SHEET 21,1-1000 |
| MAX. SIZE: | 20' x 30' x 15' | |
| MAX. AREA: | 600 SQ. FT., | |
| MAX. OCCUPANCY: | 40 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

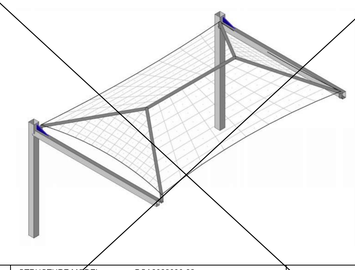
## TRI-TRUSS HIP SINGLE WIDE



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA4073030-22 | SEE SHEET 17,1-1000 |
| MAX. SIZE: | 30' x 30' x 15' | |
| MAX. AREA: | 900 SQ. FT., | |
| MAX. OCCUPANCY: | 60 PERSONS | |
| STRUCTURE MODEL: | DSA4073040-22 | SEE SHEET 18,1-1000 |
| MAX. SIZE: | 30' x 40' x 15' | |
| MAX. AREA: | 1,200 SQ. FT., | |
| MAX. OCCUPANCY: | 80 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

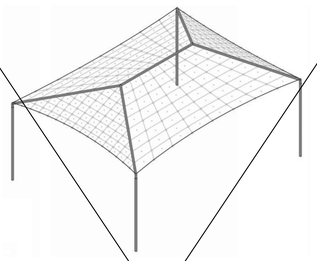
## MARINER PEAK



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA2022030-22 | SEE SHEET 11,1-1000 |
| MAX. SIZE: | 20' x 30' x 15' | |
| MAX. AREA: | 600 SQ. FT., | |
| MAX. OCCUPANCY: | 40 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## FULL CANTILEVER HIP SINGLE



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA401230-22 | SEE SHEET 1,1-1000 |
| MAX. SIZE: | 20' x 30' x 15' | |
| MAX. AREA: | 600 SQ. FT., | |
| MAX. OCCUPANCY: | 40 PERSONS | |
| STRUCTURE MODEL: | DSA401330-22 | SEE SHEET 2,1-1000 |
| MAX. SIZE: | 30' x 30' x 15' | |
| MAX. AREA: | 900 SQ. FT., | |
| MAX. OCCUPANCY: | 60 PERSONS | |
| STRUCTURE MODEL: | DSA401340-22 | SEE SHEET 3,1-1000 |
| MAX. SIZE: | 30' x 40' x 15' | |
| MAX. AREA: | 1,200 SQ. FT., | |
| MAX. OCCUPANCY: | 80 PERSONS | |
| STRUCTURE MODEL: | DSA401440-22 | SEE SHEET 4,1-1000 |
| MAX. SIZE: | 40' x 40' x 15' | |
| MAX. AREA: | 1,600 SQ. FT., | |
| MAX. OCCUPANCY: | 106 PERSONS | |
| STRUCTURE MODEL: | DSA401203012-22 | SEE SHEET 5,1-1000 |
| MAX. SIZE: | 20' x 30' x 12' | |
| MAX. AREA: | 600 SQ. FT., | |
| MAX. OCCUPANCY: | 40 PERSONS | |
| STRUCTURE MODEL: | DSA401303012-22 | SEE SHEET 6,1-1000 |
| MAX. SIZE: | 30' x 30' x 12' | |
| MAX. AREA: | 900 SQ. FT., | |
| MAX. OCCUPANCY: | 60 PERSONS | |
| STRUCTURE MODEL: | DSA401304012-22 | SEE SHEET 7,1-1000 |
| MAX. SIZE: | 30' x 40' x 12' | |
| MAX. AREA: | 1,200 SQ. FT., | |
| MAX. OCCUPANCY: | 80 PERSONS | |
| STRUCTURE MODEL: | DSA401520330-22 (20 psf SNOW LOAD) | SEE SHEET 8,1-1000 |
| MAX. SIZE: | 20' x 30' x 15' | |
| MAX. AREA: | 600 SQ. FT., | |
| MAX. OCCUPANCY: | 40 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

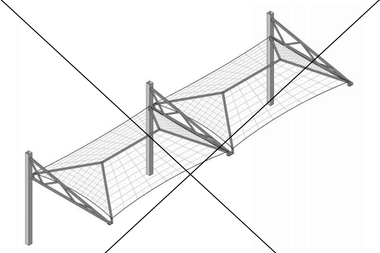
## HIP



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA60340-22 | SEE SHEET 28,1-1000 |
| MAX. SIZE: | Ø40' x 15' | |
| MAX. AREA: | 1,040 SQ. FT., | |
| MAX. OCCUPANCY: | 69 PERSONS | |
| STRUCTURE MODEL: | DSA60360-22 | SEE SHEET 29,1-1000 |
| MAX. SIZE: | Ø60' x 15' | |
| MAX. AREA: | 2,338 SQ. FT., | |
| MAX. OCCUPANCY: | 156 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

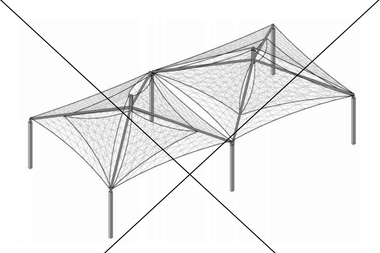
## HEXAGON



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA3052060-22 | SEE SHEET 22,1-1000 |
| MAX. SIZE: | 20' x 200' x 15' | |
| MAX. AREA: | 4,000 SQ. FT., | |
| MAX. OCCUPANCY: | 266 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

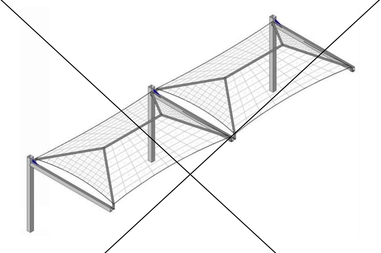
## TRI-TRUSS HIP JOINED



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA407J3060-22 | SEE SHEET 19,1-1000 |
| MAX. SIZE: | 30' x 133' x 15' | |
| MAX. AREA: | 3,990 SQ. FT., | |
| MAX. OCCUPANCY: | 266 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

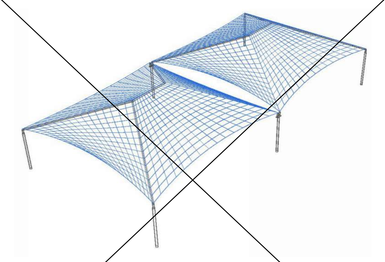
## MARINER PEAK JOINED



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA3022060-22 | SEE SHEET 12,1-1000 |
| MAX. SIZE: | 20' x 200' x 15' | |
| MAX. AREA: | 4,000 SQ. FT., | |
| MAX. OCCUPANCY: | 266 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## FULL CANTILEVER HIP JOINED



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA401J-22 | SEE SHEET 9,1-1000 |
| MAX. SIZE: | VARIES, SEE JOINED HIP UNIT SHEET | |
| MAX. AREA: | VARIES | |
| MAX. OCCUPANCY: | VARIES | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## JOINED HIP

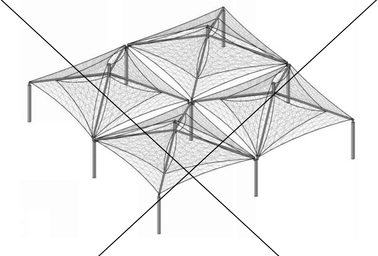
NOT USED



| | | |
|---|---|---|
| X STRUCTURE MODEL: | DSA30730-22 | SEE SHEET 23,1-1000 |
| MAX. SIZE: | 30' x 133' x 15' | |
| MAX. AREA: | 3,990 SQ. FT., | |
| MAX. OCCUPANCY: | 266 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

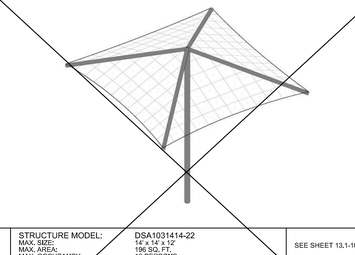
## TENSIONS SAILS THREE-POINT



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA407Q6060-22 | SEE SHEET 20,1-1000 |
| MAX. SIZE: | 60' x 60' x 15' | |
| MAX. AREA: | 3,600 SQ. FT., | |
| MAX. OCCUPANCY: | 240 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

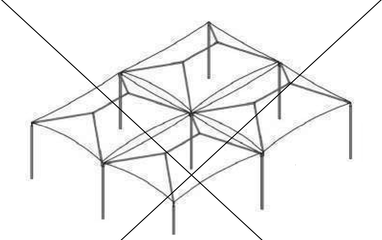
## MARINER PEAK QUAD



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA1031414-22 | SEE SHEET 13,1-1000 |
| MAX. SIZE: | 14' x 14' x 12' | |
| MAX. AREA: | 196 SQ. FT., | |
| MAX. OCCUPANCY: | 13 PERSONS | |
| STRUCTURE MODEL: | DSA1032020-22 | SEE SHEET 14,1-1000 |
| MAX. SIZE: | 20' x 20' x 12' | |
| MAX. AREA: | 400 SQ. FT., | |
| MAX. OCCUPANCY: | 26 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## SINGLE POST PYRAMID

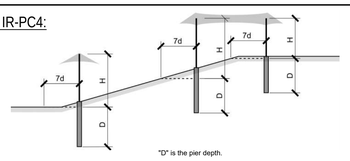


| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA401Q-22 | SEE SHEET 10,1-1000 |
| MAX. SIZE: | VARIES, SEE QUAD HIP UNIT SHEET | |
| MAX. AREA: | VARIES | |
| MAX. OCCUPANCY: | VARIES | |

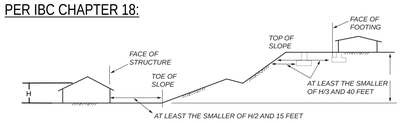
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## QUAD HIP

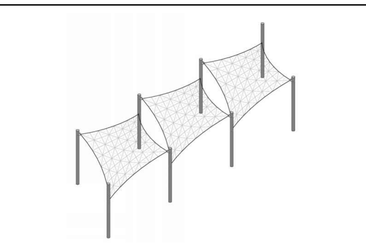
PER IR-PC4:




PER IBC CHAPTER 18:




## PC SLOPE DESIGN PARAMETERS

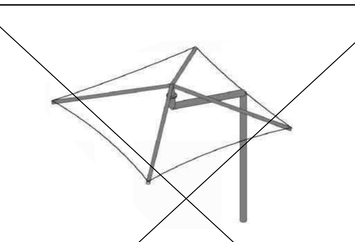


| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA4182020-22 | SEE SHEET 24,1-1000 |
| MAX. SIZE: | 20' x 200' x 15' | |
| MAX. AREA: | 4,000 SQ. FT., | |
| MAX. OCCUPANCY: | 266 PERSONS | |
| X STRUCTURE MODEL: | DSA4183030-22 | SEE SHEET 25,1-1000 |
| MAX. SIZE: | 30' x 133' x 15' | |
| MAX. AREA: | 3,990 SQ. FT., | |
| MAX. OCCUPANCY: | 266 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## TENSIONS SAILS FOUR-POINT

NOT USED



| | | |
|---|---|---|
| STRUCTURE MODEL: | DSA1241414-22 | SEE SHEET 15,1-1000 |
| MAX. SIZE: | 14' x 14' x 12' | |
| MAX. AREA: | 196 SQ. FT., | |
| MAX. OCCUPANCY: | 13 PERSONS | |
| STRUCTURE MODEL: | DSA1242020-22 | SEE SHEET 16,1-1000 |
| MAX. SIZE: | 20' x 20' x 12' | |
| MAX. AREA: | 400 SQ. FT., | |
| MAX. OCCUPANCY: | 26 PERSONS | |

FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0

## SINGLE POST PYRAMID CANTILEVER

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USASHADE & Fabric Structures

**CORPORATE HEADQUARTERS**
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

**CERTIFICATIONS:**

IAS CERTIFICATION No: FA-428

CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**
Rosemead Elementary S.D.

**PROJECT NAME:**
Mildred B. Janson E.S.

**LOCATION:**
8628 Marshall Street
Rosemead, CA 91770

**MODEL NUMBER:**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

**STRUCTURE TYPE:**

**SCALE : VARIES**

**DRAWING SIZE:**
**D**

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | DWH | 8/19/23 |
| Design By : | DWH | 8/19/23 |
| Approved By : | DWH | 8/19/23 |

**DRAWING DESCRIPTION:**

**DWG.**
**UNIT SELECTION**

**SHEET**
**T-2.0**

**REV.**

LICENSED ARCHITECT
DAVID HIGGINSON
C19168
10-31-25
RENEWAL DATE
STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER
MARK ALBERT LOWE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA
8/23/2024

FILE No.: 19-91 A#: 03-123590

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

LICENSED ARCHITECT
HELENA L. JUBANY
22214
REN. 5-31-27
STATE OF CALIFORNIA

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MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST - ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P.323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

UNIT SELECTION

**T-2.0**
NEW SHEET

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FILE No.: 19-91 A#: 03-123590

## DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

General

| Application Number: | School Name: | School District: |
|---|---|---|
| 04-123501 | PCC FABRIC SHADE STRUCTURES | USA SHADE AND FABRIC STRUCTURES |
| DSA File Number: | Increment Number: | Date Created: |
| PC-140 | | 2024-08-06 15:16:59 |

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

**KEY TO COLUMNS**

| 1. TYPE | 2. PERFORMED BY |
|---|---|
| **Continuous –** Indicates that a continuous special inspection is required<br>**Periodic –** Indicates that a periodic special inspection is required<br>**Test –** Indicates that a test is required | **GE (Geotechnical Engineer) –** Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.<br>**LOR (Laboratory of Record) –** Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.<br>**PI (Project Inspector) –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>**SI (Special Inspection) –** Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. |



## DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

| Application Number: | School Name: | School District: |
|---|---|---|
| 04-123501 | PCC FABRIC SHADE STRUCTURES | USA SHADE AND FABRIC STRUCTURES |
| DSA File Number: | Increment Number: | Date Created: |
| PC-140 | | 2024-08-06 15:16:59 |

**Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report**

| | S1. GENERAL: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Verify that:<br>• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.<br>• Foundation excavations are extended to proper depth and have reached proper material.<br>• Materials below footings must not contain loose material, mud, organic silt, organic clays, or peat. | See Notes | PI | Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations and/or within the building envelope is not permitted without a geotechnical report. |

| | S2. SOIL COMPACTION AND FILL: | see T&I Note #7 for additional information | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Perform classification and testing of fill materials. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| ☐ | **b.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill. | Continuous | LOR* | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| ☐ | **c.** Compaction testing. | Test | LOR* | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |

| | S3. DRIVEN DEEP FOUNDATIONS (PILES): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Verify pile materials, sizes and lengths comply with the requirements. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |



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Table 1705A.6, Table 1705A.7, Table 1705A.8

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| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | **b.** Determine capacities of test piles and conduct additional load tests as required. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| ☐ | **c.** Inspect driving operations and maintain complete and accurate records for each pile. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | **d.** Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | **e.** Steel piles. | Provide tests and inspections per STEEL section below. | | |
| ☐ | **f.** Concrete piles and concrete filled piles. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | **g.** For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge. | * | * | * As defined on drawings or specifications. |

| | S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): | see T&I Note #8 for additional information | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Note** |
| ☑ | **a.** Inspect drilling operations and maintain complete and accurate records for each pier. | Continuous | PI | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| ☑ | **b.** Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes. | Continuous | PI | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| ☑ | **c.** Concrete piers. | Provide tests and inspections per CONCRETE section below. | | |



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Table 1705A.6, Table 1705A.7, Table 1705A.8

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| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| | **S5. RETAINING WALLS:** | | | |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Placement, compaction and inspection of backfill. | Continuous | GE* | **1705A.6.1.** * By geotechnical engineer or his or her qualified representative. (See section S2 above). |
| ☐ | **b.** Placement of soil reinforcement and/or drainage devices. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | **c.** Segmental retaining walls; inspect placement of units, dowels, connectors, etc. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. See DSA IR 18-2. |
| ☐ | **d.** Concrete retaining walls. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | **e.** Masonry retaining walls. | Provide tests and inspections per MASONRY section below. | | |

| | S6. OTHER SOILS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Soil Improvements | Test | GE* | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance.<br>* By geotechnical engineer or his or her qualified representative. |
| ☐ | **b.** Inspection of Soil Improvements | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | **c.** | | | |



## DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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| | C1. CAST-IN-PLACE CONCRETE | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Verify use of required design mix. | Continuous | SI | **Table 1705A.3 Item 5, 1910A.1.** |
| ☑ | **b.** Identifiy, sample, and test reinforcing steel. | Test | LOR | **1910A.2;** ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.) |
| ☑ | **c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test | LOR | **Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12. |
| ☑ | **d.** Test concrete (f'c). | Test | LOR | **1905A.1.17;** ACI 318-19 Section 26.12. |
| ☑ | **e.** Batch plant inspection: **Not Required** | See Notes | SI | Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1,** or not required per **1705A.3.3.2.** See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| ☐ | **f.** Welding of reinforcing steel. | Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below. | | |

| | C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Sample and test prestressing tendons and anchorages. | Test | LOR | **1705A.3.4, 1910A.3** |
| ☐ | **b.** Inspect placement of prestressing tendons. | Periodic | SI | **1705A.3.4, Table 1705A.3 Items 1 & 9.** |



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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | **c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons. | Periodic | SI | **Table 1705A.3 Item 13.** Special inspector to verify specified concrete strength test prior to stressing. |
| ☐ | **d.** Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | Continuous | SI | **1705A.3.4, Table 1705A.3 Item 9;** ACI 318-19 Section 26.13 |

| | C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Inspect fabrication of precast concrete members. | Continuous | SI | ACI 318-19 Section 26.13, and PCI MNL-128 and -130. |
| ☐ | **b.** Inspect erection of precast concrete members. | Periodic | SI* | **Table 1705A.3 Item 10.** * May be performed by PI when specifically approved by DSA. |
| ☐ | **c.** For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:<br>1. Installation of the embedded parts<br>2. Completion of the continuity of reinforcement across joints.<br>3. Completion of connections in the field. | Continuous | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |
| ☐ | **d.** Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5. | Periodic | SI | Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5 |



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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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| | C4. SHOTCRETE (IN ADDITION TO SECTION C1): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Inspect shotcrete placement for proper application techniques. | Continuous | SI | **1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3.** See ACI 506.2-13 Section 3.4, ACI 506R-16. |
| ☐ | **b.** Sample and test shotcrete (f'c). | Test | LOR | **1908A.2, 1705A.3.9** |

| | C5. POST-INSTALLED ANCHORS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Inspect installation of post-installed anchors | See Notes | SI* | **1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-19 Section 26.13. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | **b.** Test post-installed anchors. | Test | LOR | **1910A.5.** (See Appendix (end of this form) for exemptions.) |

| | C6. OTHER CONCRETE: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** | | | |



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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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| | S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Verify identification of all materials and:<br>• Mill certificates indicate material properties that comply with requirements.<br>•Material sizes, types and grades comply with requirements. | Periodic | * | **Table 1705A.2.1 Item 3a–3c.** 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| ☑ | **b.** Test unidentified materials | Test | LOR | **2202A.1.** |
| ☑ | **c.** Examine seam welds of HSS shapes | Periodic | SI | DSA IR 17-3. |
| ☑ | **d.** Verify and document steel fabrication per DSA-approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**). |
| ☐ | **e.** Buckling restrained braces. | Test | LOR | Testing and special inspections in accordance with IR 22-4. |

| | S/A2. HIGH-STRENGTH BOLTS: | see Testing Matrix table for additional information | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI | **Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |
| ☑ | **b.** Test high-strength bolts, nuts and washers. | Test | LOR | **Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8. |
| ☑ | **c.** Bearing-type ("snug tight") connections. | Periodic | SI | **Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9. |
| ☑ | **d.** Pretensioned and slip-critical connections. | * | SI | **Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used. |



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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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| | S/A3. WELDING: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI | **1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| ☑ | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| ☑ | **c.** Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |

| | S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | **Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☑ | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | Periodic | SI | **1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | **c.** Inspect welding of stairs and railing systems. | Periodic | SI | **1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| ☐ | **d.** Verification of reinforcing steel weldability other than ASTM A706. | Periodic | SI | **1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | **e.** Inspect welding of reinforcing steel. | Continuous | SI | **Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3. |



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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| | **S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):** | | | |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | **Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | b. Inspect single-pass fillet welds ≤ 5/16". | Periodic | SI | **Table 1705A.2.1 Item 5a.5**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| ☐ | **c.** Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic | SI | **2213A.2**; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |
| ☐ | **d.** Inspect floor and roof deck welds. | Periodic | SI | **1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |
| ☐ | **e.** Inspect welding of structural cold-formed steel. | Periodic | SI* | **1705A.2.5; AWS D1.3; DSA IR 17-3.** The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | **f.** Inspect welding of stairs and railing systems. | Periodic | SI* | **1705A.2.1;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |
| ☐ | **g.** Verification of reinforcing steel weldability. | Periodic | SI | **1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| ☐ | **h.** Inspect welding of reinforcing steel. | Continuous | SI | **Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3. |



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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| | **S/A6. NONDESTRUCTIVE TESTING:** | | | |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Ultrasonic | Test | LOR | **1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☐ | **b.** Magnetic Particle | Test | LOR | **1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| ☐ | **c.** | Test | LOR | |

| | S/A7. STEEL JOISTS AND TRUSSES: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | Continuous | SI | **1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses. |



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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| | **S/A8. SPRAYED FIRE-RESISTANT MATERIALS:** | | | |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI | **1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.** |
| ☐ | **b.** Test density. | Test | LOR | **1705A.15.1, 1705A.15.5, ASTM E605** |
| ☐ | **c.** Bond strength adhesion/cohesion. | Test | LOR | **1705A.15.1, 1705A.15.6, ASTM E736** |

| | S/A9. ANCHOR BOLTS AND ANCHOR RODS: | see T&I Note #9 for additional information | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | **a.** Anchor Bolts and Anchor Rods | Test | LOR | Identify, sample and test anchor bolts and anchor rods **not** meeting exemptions identified in Section 1 of IR 17-11. |
| ☑ | **b.** Threaded rod not used for foundation anchorage. | Test | LOR | Identify, sample and test threaded rods **not** meeting exemptions identified in Section 1 of IR 17-11. |

| | S/A10. STORAGE RACK SYSTEMS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Periodic | SI | Table 1705A.13.7 |
| ☐ | **b.** Fabricated storage rack elements. | Periodic | SI | 1704A.2.5; Table 1705A.13.7 |



## DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

| Application Number: | School Name: | School District: |
|---|---|---|
| 04-123501 | PCC FABRIC SHADE STRUCTURES | USA SHADE AND FABRIC STRUCTURES |
| DSA File Number: | Increment Number: | Date Created: |
| PC-140 | | 2024-08-06 15:16:59 |

| | Test or Special Inspection | Type | Performed By | Code References and Notes |
|---|---|---|---|---|
| ☐ | **c.** Storage rack anchorage installation. | Periodic | SI | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7 |
| ☐ | **d.** Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI* | Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA. |

| | S/A11. Other Steel | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | **a.** | | | |



## GENERAL DSA-103 NOTES:

1. THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
2. A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

## TESTING AND INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2. IF THE TOTAL AREA OF THE SHADE STRUCTURE(S) IS LESS THAN 2,000 SQ. FT. WITH NO FIELD WELDING OR HIGH-STRENGTH FASTENERS THEN THE SITE PROJECT INSPECTOR MAY BE A CLASS 3.
3. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
4. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
5. THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
6. PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
   - 6.1. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   - 6.2. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.
7. INCLUDE SECTION S2 - SOIL COMPACTION AND FILL WHEN OVER-EX AND RE-COMPACTING OCCURS.
8. S4 - CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): NOT REQUIRED IF SPREAD FOOTING OPTION IS CHOSEN.
9. S/A9 - ANCHOR BOLT AND ANCHOR ROD: NOT REQUIRED IF EMBEDDED BASE PLATE OPTION IS CHOSEN.

**HIGH-STRENGTH BOLTS (S/A2) SPECIAL INSPECTIONS TESTING MATRIX FOR SPECIFIC MODELS**

| ✓ | MODEL | SHEET | HIGH STRENGTH BOLTS | PRETENSIONED / SLIP-CRITICAL CONNECTIONS |
|---|---|---|---|---|
| | DSA2022030-22 | 11.1-1000 | YES | - |
| | DSA3022060-22 | 12.1-1000 | YES | - |
| | DSA1031414-22 | 13.1-1000 | YES | YES |
| | DSA1032020-22 | 14.1-1000 | YES | YES |
| | DSA1241414-22 | 15.1-1000 | YES | YES |
| | DSA1242020-22 | 16.1-1000 | YES | YES |
| | DSA2062030-22 | 21.1-1000 | YES | - |
| | DSA3052060-22 | 22.1-1000 | YES | - |

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA — 8/19/24

REGISTERED PROFESSIONAL ENGINEER MARK ALBERT LOWE No. 3693 STRUCTURAL STATE OF CALIFORNIA — 8/23/2024

# DSA 103 (SAMPLE) - STATEMENT OF STRUCTURAL TESTS AND INSPECTIONS

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

USASHADE & Fabric Structures

**CORPORATE HEADQUARTERS**
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

**CERTIFICATIONS:**
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

LICENSED ARCHITECT HELENA L. JUBANY 22214 REN. 5-31-27 STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE MADE BE EXECUTED OR NOT, AND THEY ARE NOT TO BE USED FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY ARE PREPARED, EXCEPT BY AGREEMENT IN WRITING.

**CUSTOMER:**
Rosemead Elementary S.D.

**PROJECT NAME:**

**LOCATION:**
Mildred B. Janson E.S.
8628 Marshall Street
Rosemead, CA 91770

**MODEL NUMBER:**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 12/11/2024

**STRUCTURE TYPE:**

**SCALE : VARIES**

**DRAWING SIZE:** D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | DWH | 8/19/23 |
| Design By : | DWH | 8/19/23 |
| Approved By : | DWH | 8/19/23 |

**DRAWING DESCRIPTION:**

**DWG.** T&I FORMS

**SHEET** T-3.0

**REV.**

MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD., ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P:323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

T&I FORMS

T-3.0
NEW SHEET

© 2021 NAC Inc

FILE No.: 19-91 A#: 03-123590

GENERAL NOTES

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING, UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:

| | |
|---|---|
| SQUARE AND RECTANGULAR | 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS |
| ROUND PIPE | 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS |

5.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

6.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

7.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

8.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

9.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

10.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 4) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

11.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4"

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6.- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 1/2" 6x19 GALV. CABLE PER ASTM A1023/A1023M WITH A BREAKING STRENGTH VALUE OF 20,700 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=7056 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

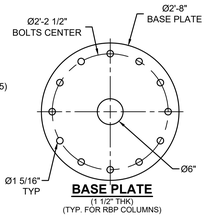
FOOTPRINT CONFIGURATION

1.- THE STRUCTURE CAN BE A SINGLE 3 POST TENSION SAIL.

2.- THE STRUCTURE CAN BE PLACED FOLLOWING A CURVED CONFIGURATION AS LONG AS THE MAXIMUM DIMENSIONS ARE NOT EXCEEDED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)

| | |
|---|---|
| -K-12: | 250 PERSONS |
| -PUBLIC ASSEMBLY: | 300 PERSONS |
| -EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: | 500 PERSONS |



BASE PLATE
(1 1/2" THK)
(TYP. FOR RBP COLUMNS)

CBC PC DESIGN NOTES

| | |
|---|---|
| BUILDING CODE | CBC 2022 (BASED ON IBC 2021) |
| FLOOR LIVE LOAD | N/A |
| ROOF LIVE LOAD | RLL 5 PSF |

ALLOWABLE SOIL PRESSURE:

| | |
|---|---|
| DL + LL (CONC FTG) | 1500 PSF |
| DL + LL + SEISMIC (CONC FTG) | 1500 PSF |
| LATERAL BEARING DESIGN VALUE | 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2 |

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

| | |
|---|---|
| ROOF SNOW LOAD | 5 PSF |
| ICE LOAD | ZERO PSF |
| FLOOD HAZARD AREA | ZONE X |

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION

| | | |
|---|---|---|
| -BASIC DESIGN WIND SPEED (3 SEC GUST) | V | 115 MPH |
| -ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4) | $V_{ASD}$ | 90 MPH |
| -WIND EXPOSURE FACTOR | C | |
| -TOPOGRAPHIC FACTOR | Kzt | 1 |
| -RISK CATEGORY | II | |
| -VELOCITY PRESSURE EXPOSURE COEFFICIENT | Kz | 0.88 |
| -VELOCITY PRESSURE | qz | 25.32 PSF |

SEISMIC DESIGN:

| | | |
|---|---|---|
| -SITE CLASS | D | |
| | SS | 3.00g |
| | S1 | 1.389g |
| -SPECTRAL RESPONSE COEFFICIENTS | SDS | 2.00 |
| | SD1 | 1.39 |

NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

| | | |
|---|---|---|
| -SEISMIC IMPORTANCE FACTOR | Ie | 1.0 |
| -DESIGN BASE SHEAR | V | 17035 LB |
| -SEISMIC RESPONSE COEFFICIENTS | Cs | 1.6 |
| -RESPONSE MODIFICATION FACTOR | R | 1.25 |
| -ANALYSIS PROCEDURE | EQUIVALENT LATERAL FORCE | |
| -RISK CATEGORY | II | |
| -SEISMIC DESIGN CATEGORY | | E |
| -SITE COEFFICIENT CATEGORY | Fa | 1.2 |
| | Fv | 1.5 |
| -REDUNDANCY FACTOR | ρ | 1.3 |

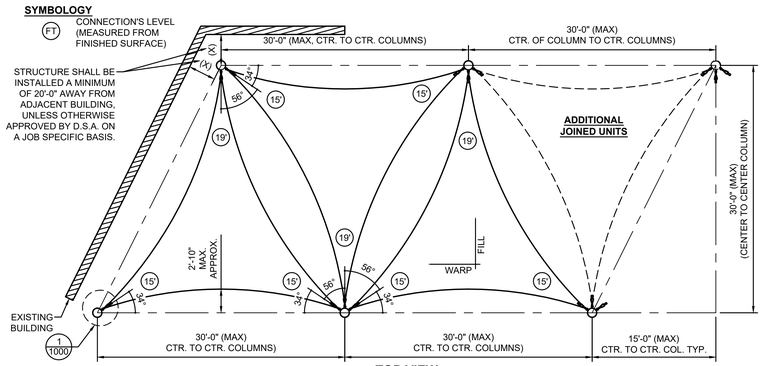
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

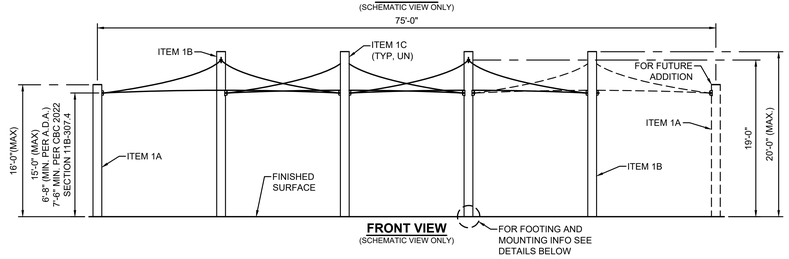
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 24'-6" FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

**SYMBOLOGY**

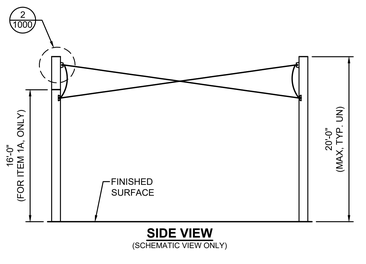


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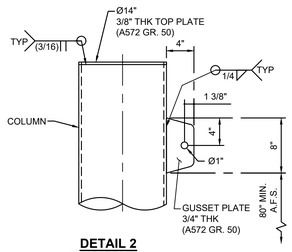
**TOP VIEW**
(SCHEMATIC VIEW ONLY)



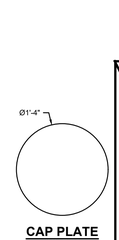

**FRONT VIEW**
(SCHEMATIC VIEW ONLY)
FOR FOOTING AND MOUNTING INFO SEE DETAILS BELOW



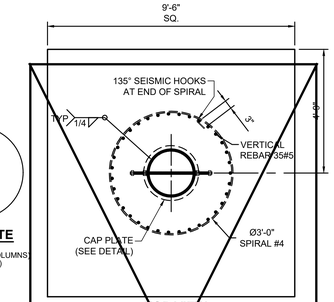

**SIDE VIEW**
(SCHEMATIC VIEW ONLY)



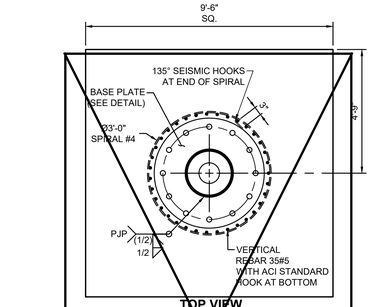

**DETAIL 2**
REFER TO SIDE VIEW



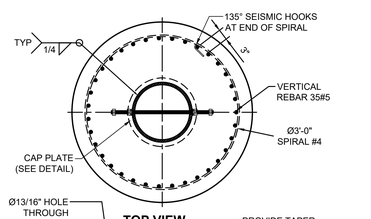

**CAP PLATE**
(3/8" THK)
(BOTTOM OF PIH COLUMNS) (A572 GR. 50)



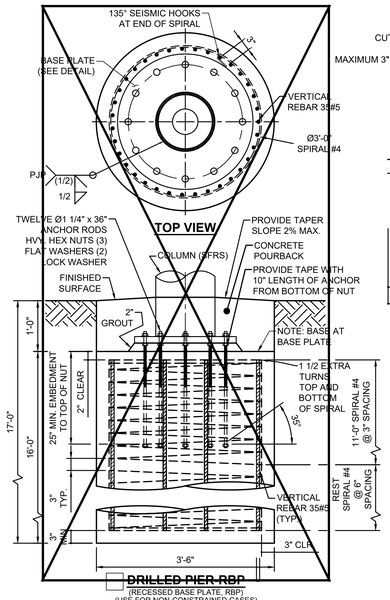

**TOP VIEW**



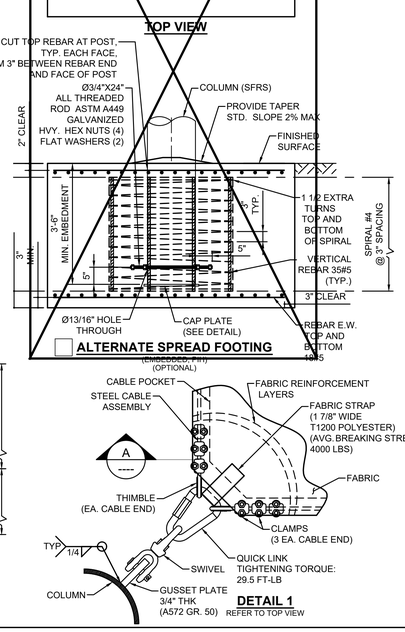

**TOP VIEW**




**DRILLED PIER-PIH**
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)



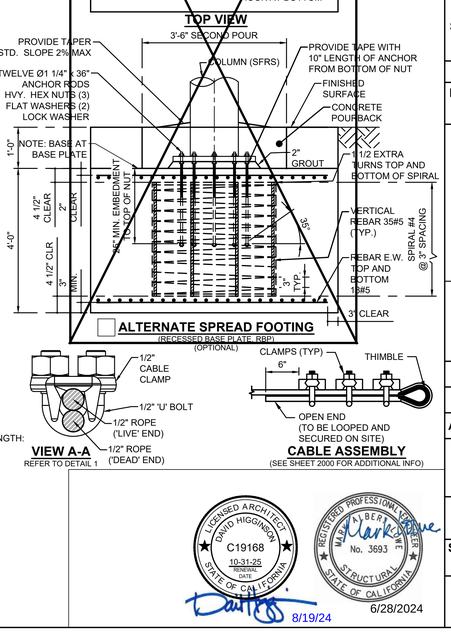

**DRILLED PIER-RBP**
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)




**ALTERNATE SPREAD FOOTING**
(EMBEDDED, PIH)
(OPTIONAL)




**DETAIL 1**
REFER TO TOP VIEW




**ALTERNATE SPREAD FOOTING**
(RECESSED BASE PLATE, RBP)
(OPTIONAL)




**VIEW A-A**
REFER TO DETAIL 1

**CABLE ASSEMBLY**
(SEE SHEET 2000 FOR ADDITIONAL INFO)

NOTE: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.

**LIST OF MATERIALS**

| ITEM | QTY | DESCRIPTION | MATERIAL |
|---|---|---|---|
| 1A | TBD | COLUMN | HSS 14.0 x 0.625 |
| 1B | TBD | COLUMN | HSS 14.0 x 0.625 |
| 1C | TBD | COLUMN | HSS 14.0 x 0.625 |
| 2 | TBD | FABRIC TOP | FR COLOURSHADE 190/F5 |
| 3 | TBD | Ø1/2" CABLE | GALVANIZED STEEL |
| 4 | TBD | Ø1/2" THIMBLE | GALVANIZED |
| 5 | TBD | Ø1/2" CABLE CLAMP | GALVANIZED |
| 6 | TBD | 3/4" SWIVEL JAW END | GALVANIZED (W.L. = 7200 LB) |
| 7 | TBD | 25/32" QUICK LINK | ZINC PLATED (W.L. = 6613 LB) |
| 8 | TBD | CAP PLATE (3/8" THK) | ASTM A572 GR. 50 |
| 9 | TBD | GUSSET PLATE (3/4" THK) | ASTM A572 GR. 50 |

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

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USA SHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

**CERTIFICATIONS:**
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**
Rosemead Elementary S.D.

**PROJECT NAME:**
Mildred B. Janson E.S.

**LOCATION:**
8628 Marshall Street
Rosemead, CA 91770

**MODEL NUMBER:**
**DSA30730-22**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

**STRUCTURE TYPE:**
**TENSION SAILS DSA**

**SIZE:** MAXIMUM
**30' x 133' MAX. x 15'e**

**SCALE : NONE**

**DRAWING SIZE:**
**D**

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | HH | 12/01/22 |
| Design By : | OS | 12/01/22 |
| Approved By : | MB | 12/01/22 |

**DRAWING DESCRIPTION:**
**PRODUCT INFORMATION**

**DWG.**
**DSA30730-22**

**SHEET**
**23.1-1000**

**REV.**
**NC**

LICENSED ARCHITECT DAVID HIGGINBOTHAM C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER ALBERT MARK STRUCTURAL STATE OF CALIFORNIA
6/28/2024

LICENSED ARCHITECT HELENA L. JUBANY 22214 RENEWAL 08-31-27 STATE OF CALIFORNIA

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MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P:323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

PRODUCT INFORMATION
NEW SHEET
**23.1-1000**

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FILE No.: 19-91 A#: 03-123590

# 190/F5 Fire rated specifications

Multiknit INTERNATIONAL

## Standard range

Revision 0 28-Oct-12

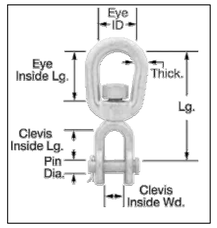
| Colour | Shade % | UV Block % | Average GSM | Average Warp break strength kgs | Average Elongation % | Average Weft break strength kgs | Average Elongation % | Average Burst Kpa | Average Burst to Mass ratio |
|---|---|---|---|---|---|---|---|---|---|
| Desert Sand | 80 | 92 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Blue | 80 | 85 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Brown | 85 | | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Green | 80 | 85 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Red | 80 | 86 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Silver | 80 | 81 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Terracotta | 75 | 82 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Yellow | 80 | 89 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| | | | | 110 LB | | 159 LB | | 3258 PSF | |

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

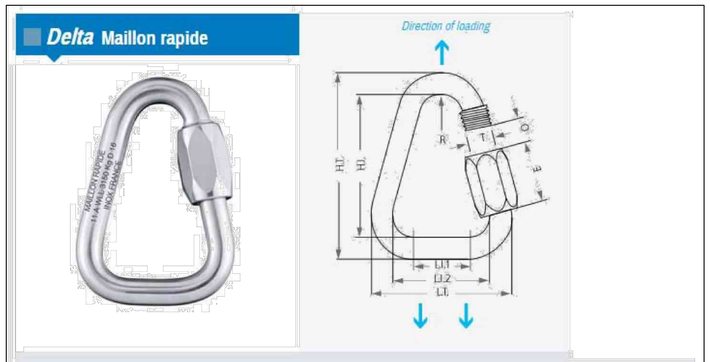
PP
Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd




EYE-TO-CLEVIS SWIVEL
MATERIAL: GALVANIZED STEEL
LENGTH: 5 7/8"
EYE:
THICKNESS: 3/4"
INSIDE LENGTH: 1 3/4"
ID: 2"
CLEVIS
INSIDE WIDTH: 1 1/8"
INSIDE LENGTH: 1 3/4"
PIN DIAMETER: 3/4"
PIN TYPE: COTTER
CAPACITY: 7,200 LBS.
FABRICATION: FORGED
SPECIFICATIONS MET FED. SPEC. RR-C-271
FITTING TYPE: SWIVEL
ATTACHMENT TYPE: EYE-TO-CLEVIS

**Delta** Maillon rapide




Delta shape: developed after the ever-increasing development of webbing-fitted systems; perfect for webbing uphold onto its lower flat part.

CAL FIRE

FLAME RETARDANT

**Fabric Registration**

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:
**MULTIKNIT (PTY) LTD**
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

**Issue Date :** 05/08/2023
**Expiration Date :** 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1

Zinc plated steel | Other materials and dimensions on request | Stainless steel | Zicral

| Reference | Diameter mm | Diameter inches | Dimensions - mm L.T. | L.I.1 | L.I.2 | H.T. | H.I. | O | E | R | T | Weight g | WLL kg | BL kg | Quote Qty |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MRDZ02.5 | 2,5 | 3/32" | 22 | 10 | 17 | 27 | 22 | 3,5 | 8 | 3,5 | 3,5 | 3 | 25 | 125 | |
| MRDZ03.0 | 3 | 7/64" | 27 | 12,5 | 21 | 30 | 24 | 4 | 9 | 4,25 | 4 | 6 | 40 | 200 | |
| MRDZ03.5 | 3,5 | 1/8" | 31 | 14 | 24 | 36 | 29 | 5 | 11 | 5 | 5 | 9 | 70 | 350 | |
| MRDZ04.0 | 4 | 5/32" | 35,5 | 16 | 27,5 | 40 | 32 | 5,5 | 12,5 | 5,75 | 6 | 14 | 100 | 500 | |
| MRDZ05.0 | 5 | 3/16" | 40 | 17 | 30 | 48 | 38 | 6,5 | 16 | 6,5 | 7 | 23 | 150 | 750 | |
| MRDZ06.0 | 6 | 1/4" | 47 | 20,5 | 35 | 56 | 44 | 7,5 | 19 | 7,25 | 9 | 39 | 250 | 1250 | |
| MRDZ07.0 | 7 | 9/32" | 51 | 21 | 37 | 63 | 49 | 8,5 | 21,5 | 8 | 10 | 58 | 400 | 2000 | |
| MRDZ08.0 | 8 | 5/16" | 56 | 22,5 | 40 | 73 | 57 | 10 | 24 | 8,85 | 11 | 88 | 550 | 2750 | |
| MRDZ09.0 | 9 | 3/8" | 60 | 23 | 42 | 78 | 60 | 11 | 26 | 9,5 | 12 | 115 | 700 | 3500 | |
| MRDZ10.0 | 10 | 7/16" | 66 | 25,5 | 46 | 87 | 67 | 12 | 29 | 10,25 | 13 | 153 | 900 | 4500 | |
| MRDZ12.0 | 12 | 1/2" | 75 | 27,5 | 51 | 104 | 80 | 15 | 33 | 11,75 | 15 | 256 | 1100 | 5500 | |
| MRDZ14.0 | 14 | 9/16" | 85 | 30,5 | 57 | 123 | 95 | 17 | 38,5 | 13,25 | 17 | 404 | 1800 | 9000 | |
| MRDZ16.0 | 16 | 5/8" | 93 | 31,5 | 61 | 138 | 106 | 19 | 45 | 14,75 | 19 | 612 | 2200 | 11000 | |
| MRDZ18.0 | 18 | 11/16" | 102 | 32,5 | 66 | 155 | 119 | 23 | 52 | 16,25 | 22 | 845 | 2600 | 13000 | |
| MRDZ20.0 | 20 | 25/32" | 112 | 31,5 | 72 | 176 | 136 | 24 | 60 | 17,75 | 24 | 1185 | 3000 | 15000 | |

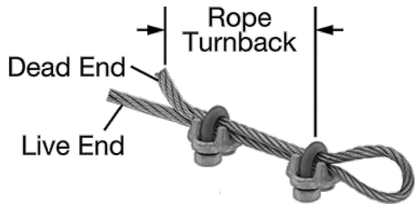
*WLL: Working load limit.
*BL: Breaking load.

Other materials and dimensions | Stainless steel | Zicral

**25/32 QUICK LINK UNITS CONVERSION**

| LT [in] | LI1 [in] | LI2 [in] | HT [in] | HI [in] | O [in] | E [in] | R [in] | T [in] | WEIGHT [lb] | WORKING LOAD [lb] | BREAKING LOAD [lb] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.409 | 1.240 | 2.835 | 6.929 | 5.354 | 0.945 | 2.362 | 0.699 | 0.945 | 2.61 | 6613 | 33069 |





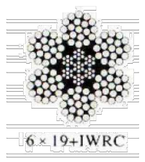

FORGED WIRE ROPE CLAMP

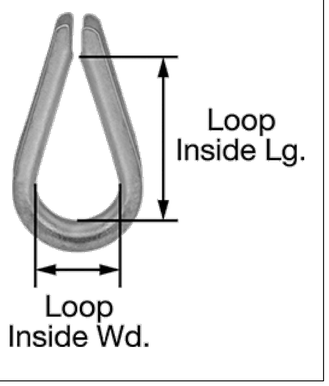
FITTING TYPE: ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER: 1/2"
NUMBER OF CLAMPS REQUIRED: 3
ROPE TURNBACK: 11 1/2"
FOR WIRE ROPE CONSTRUCTION: 6 × 19
ATTACHMENT TYPE: LOOP
CLAMP
WIDTH: 2 5/16"
HEIGHT: 2 3/8"
THICKNESS: 1 15/16"
REQUIRED INSTALLATION TOOL: TORQUE WRENCH
REQUIRED TORQUE: 65 FT.-LBS.
CAPACITY: 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450

## GALVANIZED IWRC
## 6 X 19 IWRC

**IMPROVED PLOW STEEL / EXTRA IMPROVED PLOW STEEL**

| NOMINAL DIAMETER INCH | MIN. BREAKING STRENGTH IPS LBS | MIN. BREAKING STRENGTH EIPS* LBS | WEIGHT LBS/FT | STOCK NUMBER 6X19 |
|---|---|---|---|---|
| 1/4" | 5,300 | 6,120 | 0.105 | J42 |
| 5/16" | 8,240 | 9,480 | 0.164 | K42 |
| 3/8" | 11,800 | 13,600 | 0.236 | L42 |
| 7/16" | 16,000 | 18,360 | 0.320 | M42 |
| 1/2" | 20,700 | 24,000 | 0.420 | N42 |
| 9/16" | 26,100 | 30,200 | 0.530 | O42 |
| 5/8" | 32,200 | 37,000 | 0.660 | A42 |
| 3/4" | 46,000 | 53,000 | 0.950 | Q42 |
| 7/8" | 62,200 | 71,600 | 1.290 | R42 |
| 1" | 80,800 | 93,000 | 1.680 | S42 |
| 1 1/8" | 101,800 | 117,000 | 2.130 | T42 |
| 1 1/4" | 125,000 | 143,800 | 2.630 | U42 |
| 1 3/8" | 150,400 | 172,800 | 3.180 | V42 |
| 1 1/2" | 178,000 | 206,000 | 3.780 | W42 |




WIRE ROPE THIMBLE
FITTING TYPE: THIMBLE
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER" 1/2"
LOOP
INSIDE LENGTH: 1 7/8"
INSIDE WIDTH: 1 1/8"
SPECIFICATIONS MET FED. SPEC. FF-T-276B

LICENSED ARCHITECT DAVID HIGGINSON C19168 10-31-25 RENEWAL DATE STATE OF CALIFORNIA
8/19/24

REGISTERED PROFESSIONAL ENGINEER ALBERT CLARK No. 3693 STRUCTURAL STATE OF CALIFORNIA
6/28/2024

| REV. | DESCRIPTION | DATE |
|---|---|---|
| 1 | REVISION 01 | 05/09/2025 |
| 2 | REVISION 02 | 01/30/2026 |
| | BID SET | 02/27/2026 |

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USASHADE & Fabric Structures
**CORPORATE HEADQUARTERS**
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

**CERTIFICATIONS:**
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**
Rosemead Elementary S.D.

**PROJECT NAME:**
Mildred B. Janson E.S.

**LOCATION:**
8628 Marshall Street
Rosemead, CA 91770

**MODEL NUMBER:**
**DSA30730-22**

LICENSED ARCHITECT HELENA L. UBANK 22214 RENEWAL 5-31-27 STATE OF CALIFORNIA

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 12/11/2024

**STRUCTURE TYPE:**
**TENSION SAILS DSA**

**SIZE:** MAXIMUM
**30' x 133' MAX. x 15'e**

**SCALE :** NONE

**DRAWING SIZE:**
**D**

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | HH | 12/01/22 |
| Design By : | OS | 12/01/22 |
| Approved By : | MB | 12/01/22 |

**DRAWING DESCRIPTION:**
**SPECIFICATIONS**

**DWG.**
**DSA30730-22**

**SHEET**
**23.2-2000**

**REV.**
**NC**

MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST, ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P:323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

SPECIFICATIONS

NEW SHEET

**23.2-2000**

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FILE No.: 19-91 A#: 03-123590

GENERAL NOTES

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), AISC 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

4.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:

| | | |
|---|---|---|
| SQUARE AND RECTANGULAR | 50,000 PSI YIELD STRESS / 62,000 PSI | TENSILE STRESS |
| ROUND PIPE | 50,000 PSI YIELD STRESS / 62,000 PSI | TENSILE STRESS |

5.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

6.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

7.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

8.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

9.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70SX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

10.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 4) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

11.- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE Fy= 60000 PSI , MIN. GR. 60.

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329).
ANCHOR BOLT'S DIAMETER NEEDS TO BE AS FOLLOW:
A) ANCHOR BOLT Ø1 1/4"

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6.- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

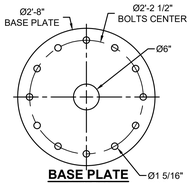
AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 1/2" 6x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 20,700 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM.THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=7056 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

| | |
|---|---|
| MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5) | |
| -K-12: | 250 PERSONS |
| -PUBLIC ASSEMBLY: | 300 PERSONS |
| -EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: | 500 PERSONS |

NOTE: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.




BASE PLATE
(1 1/2" THK)
(TYP. FOR RBP COLUMNS)

FOOTPRINT CONFIGURATION

1.- THE STRUCTURE CAN BE A SINGLE 4 POST TENSION SAIL.

2.- THE STRUCTURE CAN BE PLACED FOLLOWING A CURVED CONFIGURATION AS LONG AS THE MAXIMUM DIMENSIONS ARE NOT EXCEEDED.

CBC PC DESIGN NOTES

| | | |
|---|---|---|
| BUILDING CODE | CBC 2022 (BASED ON IBC 2021) | |
| FLOOR LIVE LOAD | N/A | |
| ROOF LIVE LOAD | RLL | 5 PSF |

ALLOWABLE SOIL PRESSURE:

| | |
|---|---|
| DL + LL (CONC FTG) | 1500 PSF |
| DL + LL + SEISMIC (CONC FTG) | 1500 PSF |
| LATERAL BEARING DESIGN VALUE | 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2 |

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT) PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

| | | |
|---|---|---|
| ROOF SNOW LOAD | 5 PSF | |
| ICE LOAD | ZERO PSF | |
| FLOOD HAZARD AREA | ZONE X | |

WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION

| | | |
|---|---|---|
| -BASIC DESIGN WIND SPEED (3 SEC GUST) | V | 115 MPH |
| -ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4) | $V_{ASD}$ | 90 MPH |
| -WIND EXPOSURE FACTOR | C | |
| -TOPOGRAPHIC FACTOR | Kzt | 1 |
| -RISK CATEGORY | II | |
| -VELOCITY PRESSURE EXPOSURE COEFFICIENT | Kz | 0.88 |
| -VELOCITY PRESSURE | qz | 25.32 PSF |

SEISMIC DESIGN:

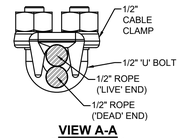
| | | |
|---|---|---|
| -SITE CLASS | D | |
| NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN. | | |
| | SS | 3.00g |
| | S1 | 1.389g |
| -SPECTRAL RESPONSE COEFFICIENTS | SDS | 2.00 |
| | SD1 | 1.39 |
| -LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM. | | |
| -SEISMIC IMPORTANCE FACTOR | Ie | 1.0 |
| -DESIGN BASE SHEAR AT BASE | V | 22638 LB |
| -SEISMIC RESPONSE COEFFICIENTS | Cs | 1.6 |
| -RESPONSE MODIFICATION FACTOR | R | 1.25 |
| -ANALYSIS PROCEDURE | EQUIVALENT LATERAL FORCE | |
| -RISK CATEGORY | II | |
| -SEISMIC DESIGN CATEGORY | | E |
| -SITE COEFFICIENT CATEGORY | Fa | 1.2 |
| | Fv | 1.5 |
| -REDUNDANCY FACTOR | ρ | 1.3 |

GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

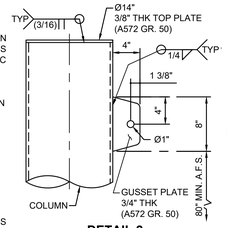
ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

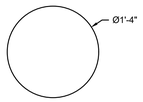
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 24'-6" FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.



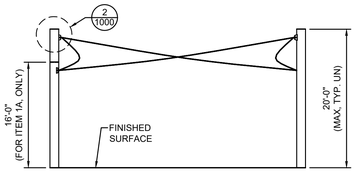

VIEW A-A
REFER TO DETAIL 1



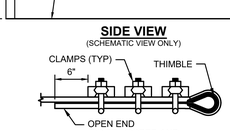

DETAIL 2
REFER TO SIDE VIEW



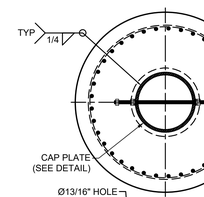

CAP PLATE
(3/8" THK)
(BOTTOM OF PIH COLUMNS)
(A572 GR. 50)



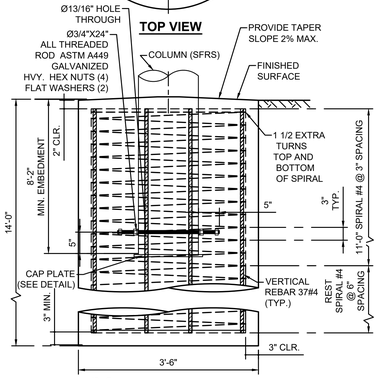

SIDE VIEW
(SCHEMATIC VIEW ONLY)



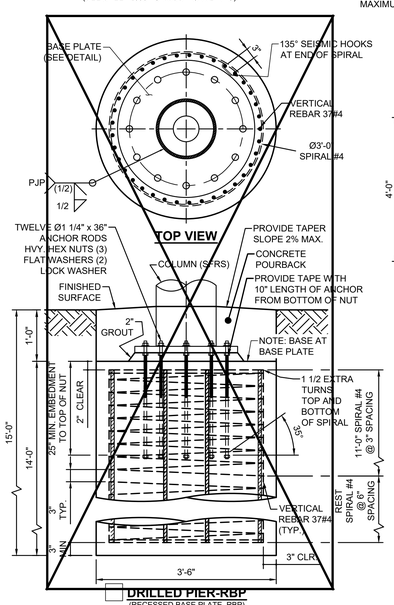

CABLE ASSEMBLY
(SEE SHEET 2000 FOR ADDITIONAL INFO)




TOP VIEW

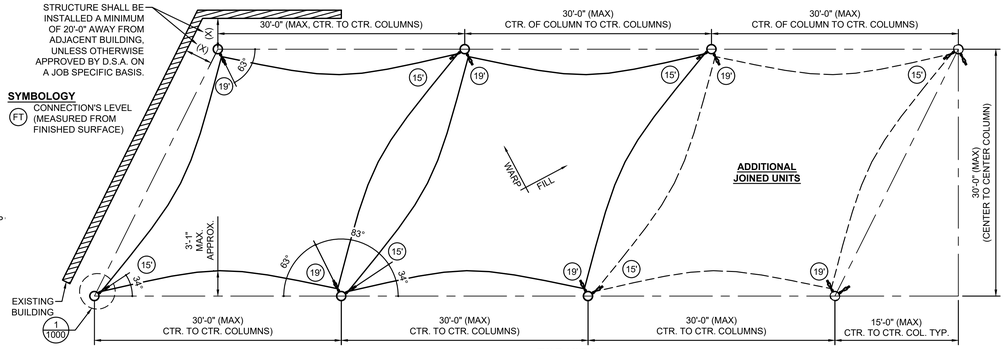



DRILLED PIER-PIH
(EMBEDDED, PIH)
(USE FOR NON-CONSTRAINED CASES)

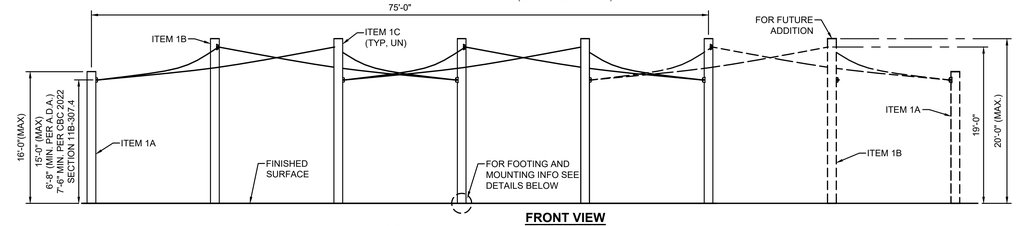



TOP VIEW

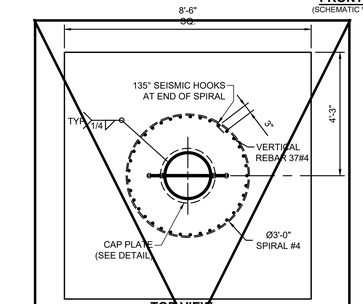
DRILLED PIER-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)



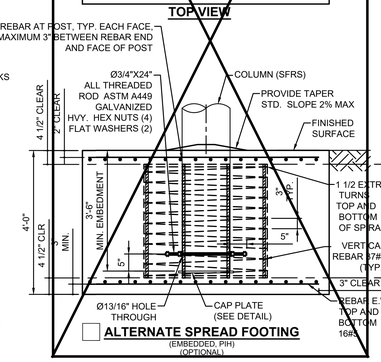

TOP VIEW
(SCHEMATIC VIEW ONLY)



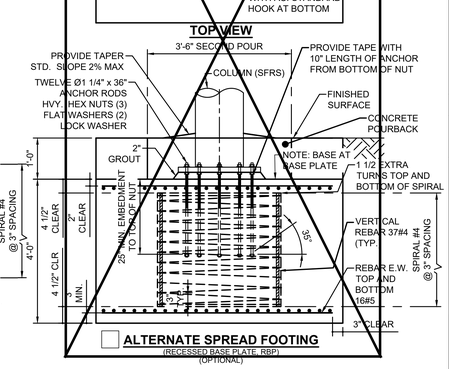

FRONT VIEW
(SCHEMATIC VIEW ONLY)



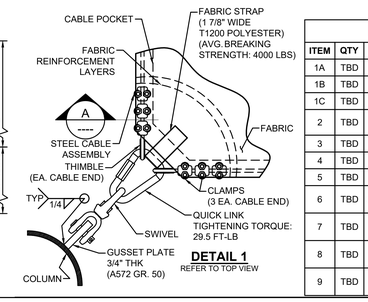

TOP VIEW




ALTERNATE SPREAD FOOTING
(EMBEDDED, PIH)
(OPTIONAL)




ALTERNATE SPREAD FOOTING
(RECESSED BASE PLATE, RBP)
(OPTIONAL)




DETAIL 1
REFER TO TOP VIEW

LIST OF MATERIALS

| ITEM | QTY | DESCRIPTION | MATERIAL |
|---|---|---|---|
| 1A | TBD | COLUMN | HSS 14.0 x 0.625 |
| 1B | TBD | COLUMN | HSS 14.0 x 0.625 |
| 1C | TBD | COLUMN | HSS 14.0 x 0.625 |
| 2 | TBD | FABRIC TOP | FR COLOURSHADE 190/F5 |
| 3 | TBD | Ø1/2" CABLE | GALVANIZED STEEL |
| 4 | TBD | Ø1/2" THIMBLE | GALVANIZED |
| 5 | TBD | Ø1/2" CABLE CLAMP | GALVANIZED |
| 6 | TBD | 3/4" SWIVEL JAW END | GALVANIZED (W.L. = 7200 LB) |
| 7 | TBD | 25/32" QUICK LINK | ZINC PLATED (W.L. = 6613 LB) |
| 8 | TBD | CAP PLATE (3/8" THK) | ASTM A572 GR. 50 |
| 9 | TBD | GUSSET PLATE (3/4" THK) | ASTM A572 GR. 50 |

REGISTERED PROFESSIONAL ENGINEER — MARK BERG — No. 3693 — STRUCTURAL — STATE OF CALIFORNIA
6/28/2024

LICENSED ARCHITECT — DAVID HIGGINSON — C19168 — 10-31-25 RENEWAL DATE — STATE OF CALIFORNIA
8/19/24

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Rosemead Elementary S.D.

PROJECT NAME:
Mildred B. Janson E.S.

LOCATION:
8628 Marshall Street
Rosemead, CA 91770

MODEL NUMBER:
DSA4183030-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 12/11/2024

LICENSED ARCHITECT — HELENA L. JUBANY — 22214 — 5-31-27 — STATE OF CALIFORNIA

DRAWINGS, SPECIFICATIONS AND OTHER VISUAL AIDS, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY ARE SPECIFICALLY ADAPTED, EXCEPT BY AGREEMENT IN WRITING.

STRUCTURE TYPE:
TENSION SAILS
DSA

SIZE: MAXIMUM
30' x 133' MAX. x 15'e

SCALE : NONE

DRAWING SIZE:
D

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | HH | 12/01/22 |
| Design By : | OS | 12/01/22 |
| Approved By : | MB | 12/01/22 |

DRAWING DESCRIPTION:
PRODUCT INFORMATION

DWG.
DSA4183030-22

SHEET
25.1-1000

REV.
NC

MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

REGISTERED SCHOOL NURSE — ROSEMEAD SCHOOL DISTRICT

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
8373 E. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P.323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

PRODUCT INFORMATION
NEW SHEET
25.1-1000

© 2021 NAC Inc

FILE No.: 19-91 A#: 03-123590

# 190/F5 Fire rated specifications

Multiknit INTERNATIONAL

## Standard range

Revision 0 28-Oct-12

| Colour | Shade % | UV Block % | Average GSM | Average Warp break strength kgs | Average Elongation % | Average Weft break strength kgs | Average Elongation % | Average Burst Kpa | Average Burst to Mass ratio |
|---|---|---|---|---|---|---|---|---|---|
| Desert Sand | 80 | 92 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Blue | 80 | 85 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Brown | 85 | | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Green | 80 | 85 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Red | 80 | 86 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Silver | 80 | 81 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Terracotta | 75 | 82 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| Yellow | 80 | 89 | 185 | 50 | 40 | 72 | 73 | 156 | 0.84 |
| | | | | 110 LB | | 159 LB | | 3258 PSF | |

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

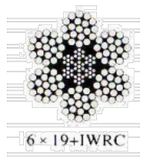
pp
Deon Joubert
General Manager - Multiknit (Pty) Ltd

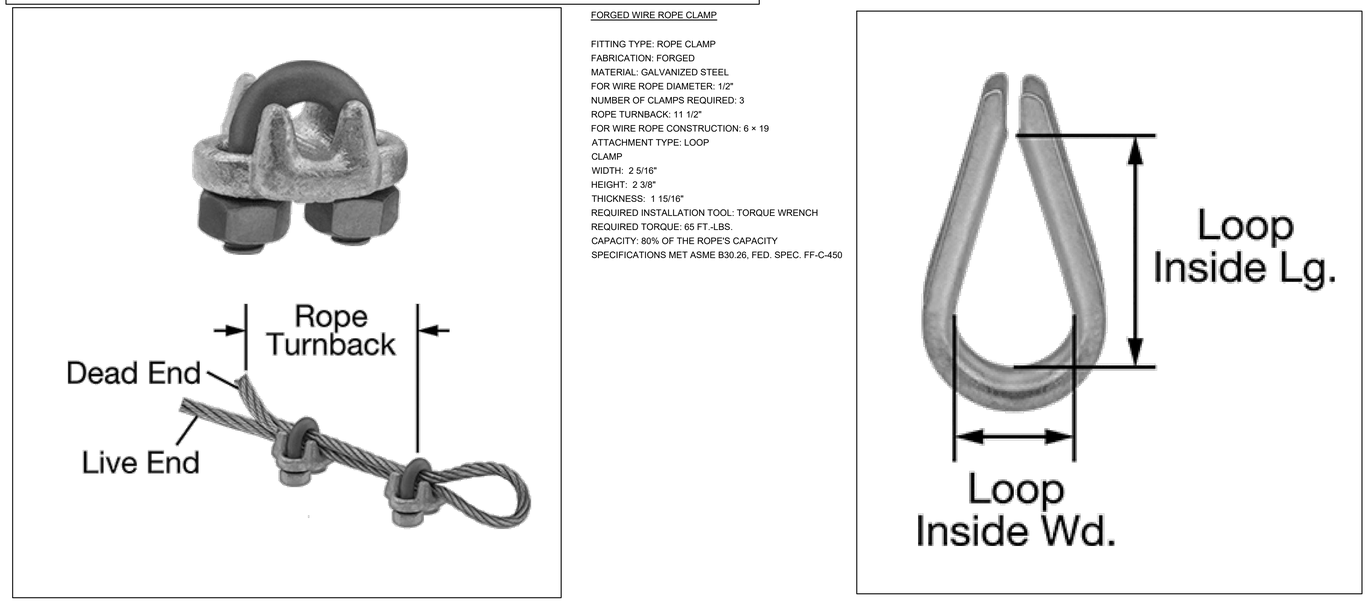
Tommy Rogers
Managing Director - Multiknit (Pty) Ltd

# GALVANIZED IWRC
# 6 X 19 IWRC

## IMPROVED PLOW STEEL / EXTRA IMPROVED PLOW STEEL

| NOMINAL DIAMETER | MIN. BREAKING STRENGTH IPS* | MIN. BREAKING STRENGTH EIPS* | WEIGHT | STOCK NUMBER |
|---|---|---|---|---|
| INCH | LBS | LBS | LBS/FT | 6X19 |
| 1/4" | 5,300 | 6,120 | 0.105 | J42 |
| 5/16" | 8,240 | 9,480 | 0.164 | K42 |
| 3/8" | 11,800 | 13,600 | 0.236 | L42 |
| 7/16" | 16,000 | 18,360 | 0.320 | M42 |
| 1/2" | 20,700 | 24,000 | 0.420 | N42 |
| 9/16" | 26,100 | 30,200 | 0.530 | O42 |
| 5/8" | 32,200 | 37,000 | 0.660 | A42 |
| 3/4" | 46,000 | 53,000 | 0.950 | Q42 |
| 7/8" | 62,200 | 71,600 | 1.290 | R42 |
| 1" | 80,800 | 93,000 | 1.680 | S42 |
| 1 1/8" | 101,800 | 117,000 | 2.130 | T42 |
| 1 1/4" | 125,000 | 143,800 | 2.630 | U42 |
| 1 3/8" | 150,400 | 172,800 | 3.180 | V42 |
| 1 1/2" | 178,000 | 206,000 | 3.780 | W42 |




FORGED WIRE ROPE CLAMP

FITTING TYPE: ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER: 1/2"
NUMBER OF CLAMPS REQUIRED: 3
ROPE TURNBACK: 11 1/2"
FOR WIRE ROPE CONSTRUCTION: 6 × 19
ATTACHMENT TYPE: LOOP
CLAMP
WIDTH: 2 5/16"
HEIGHT: 2 3/8"
THICKNESS: 1 15/16"
REQUIRED INSTALLATION TOOL: TORQUE WRENCH
REQUIRED TORQUE: 65 FT.-LBS.
CAPACITY: 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450




CAL FIRE

**FLAME RETARDANT**

**Fabric Registration**

**LICENSE NUMBER: F-052001**

**COLOURSHADE 190/F5**

**Product Marketed by:**

**MULTIKNIT (PTY) LTD**
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

**Issue Date :** 05/08/2023
**Expiration Date :** 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

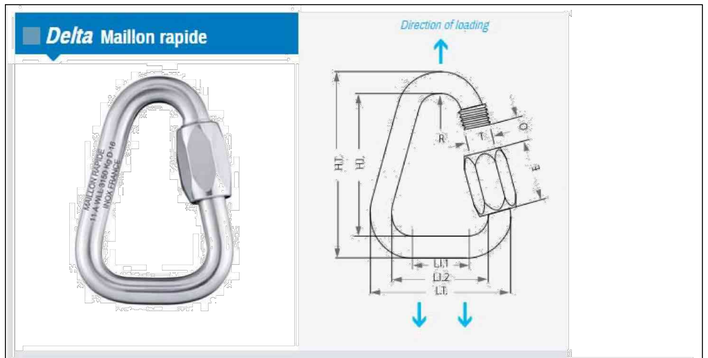
Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1

**Delta Maillon rapide**




Delta shape: developed after the ever-increasing development of webbing-fitted systems; perfect for webbing uphold onto its lower flat part.

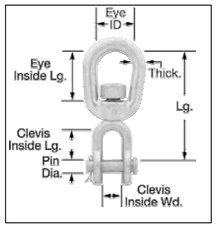
| Zinc plated steel | | | | | | | | | | | | Other materials and dimensions | Stainless steel \| Zicral | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reference | Diameter mm | Diameter inches | Dimensions - mm L.T. | L.I.1 | L.I.2 | H.T. | H.I. | O | E | R | T | Weight g | WLL kg | BL kg | Quote Qty |
| MRDZ02.5 | 2,5 | 3/32" | 22 | 10 | 17 | 27 | 22 | 3,5 | 8 | 3,5 | 3,5 | 3 | 25 | 125 | |
| MRDZ03.0 | 3 | 7/64" | 27 | 12,5 | 21 | 30 | 24 | 4 | 9 | 4,25 | 4 | 6 | 40 | 200 | |
| MRDZ03.5 | 3,5 | 1/8" | 31 | 14 | 24 | 36 | 29 | 5 | 11 | 5 | 5 | 9 | 70 | 350 | |
| MRDZ04.0 | 4 | 5/32" | 35,5 | 16 | 27,5 | 40 | 32 | 5,5 | 12,5 | 5,75 | 6 | 14 | 100 | 500 | |
| MRDZ05.0 | 5 | 3/16" | 40 | 17 | 30 | 48 | 38 | 6,5 | 16 | 6,5 | 7 | 23 | 150 | 750 | |
| MRDZ06.0 | 6 | 1/4" | 47 | 20,5 | 35 | 56 | 44 | 7,5 | 19 | 7,25 | 9 | 39 | 250 | 1250 | |
| MRDZ07.0 | 7 | 9/32" | 51 | 21 | 37 | 63 | 49 | 8,5 | 21,5 | 8 | 10 | 58 | 400 | 2000 | |
| MRDZ08.0 | 8 | 5/16" | 56 | 22,5 | 40 | 73 | 57 | 10 | 24 | 8,85 | 11 | 88 | 550 | 2750 | |
| MRDZ09.0 | 9 | 3/8" | 60 | 23 | 42 | 78 | 60 | 11 | 26 | 9,5 | 12 | 115 | 700 | 3500 | |
| MRDZ10.0 | 10 | 7/16" | 66 | 25,5 | 46 | 87 | 67 | 12 | 29 | 10,25 | 13 | 153 | 900 | 4500 | |
| MRDZ12.0 | 12 | 1/2" | 75 | 27,5 | 51 | 104 | 80 | 15 | 33 | 11,75 | 15 | 256 | 1100 | 5500 | |
| MRDZ14.0 | 14 | 9/16" | 85 | 30,5 | 57 | 123 | 95 | 17 | 38,5 | 13,25 | 17 | 404 | 1800 | 9000 | |
| MRDZ16.0 | 16 | 5/8" | 93 | 31,5 | 61 | 138 | 106 | 19 | 45 | 14,75 | 19 | 612 | 2200 | 11000 | |
| MRDZ18.0 | 18 | 11/16" | 102 | 32,5 | 66 | 155 | 119 | 23 | 52 | 16,25 | 22 | 845 | 2600 | 13000 | |
| MRDZ20.0 | 20 | 25/32" | 112 | 31,5 | 72 | 176 | 136 | 24 | 60 | 17,75 | 24 | 1185 | 3000 | 15000 | |

*WLL: Working load limit.
*BL: Breaking load.

Other materials and dimensions | Stainless steel | Zicral

**25/32 QUICK LINK UNITS CONVERSION**

| LT [in] | LI1 [in] | LI2 [in] | HT [in] | HI [in] | O [in] | E [in] | R [in] | T [in] | WEIGHT [lb] | WORKING LOAD [lb] | BREAKING LOAD [lb] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.409 | 1.240 | 2.835 | 6.929 | 5.354 | 0.945 | 2.362 | 0.699 | 0.945 | 2.61 | 6613 | 33069 |




EYE-TO-CLEVIS SWIVEL
MATERIAL: GALVANIZED STEEL
LENGTH: 5 7/8"
EYE:
THICKNESS: 3/4"
INSIDE LENGTH: 1 3/4"
ID: 2"
CLEVIS
INSIDE WIDTH: 1 1/8"
INSIDE LENGTH: 1 3/4"
PIN DIAMETER: 3/4"
PIN TYPE: COTTER
CAPACITY: 7,200 LBS.
FABRICATION: FORGED
SPECIFICATIONS MET FED. SPEC. RR-C-271
FITTING TYPE: SWIVEL
ATTACHMENT TYPE: EYE-TO-CLEVIS

WIRE ROPE THIMBLE
FITTING TYPE: THIMBLE
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER" 1/2"
LOOP
INSIDE LENGTH: 1 7/8"
INSIDE WIDTH: 1 1/8"
SPECIFICATIONS MET FED. SPEC. FF-T-276B

REGISTERED PROFESSIONAL ENGINEER
MARK BERNE
No. 3693
STRUCTURAL
STATE OF CALIFORNIA
6/28/2024

LICENSED ARCHITECT
DAVID HIGGINS
C19168
10-31-25
RENEWAL DATE
STATE OF CALIFORNIA
8/19/24

| REV. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/09/2025 | REVISION 01 |
| 2 | 01/30/2026 | REVISION 02 |
| | 02/27/2026 | BID SET |

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USASHADE & Fabric Structures
CORPORATE HEADQUARTERS
2580 ESTERS BLVD. SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

**CERTIFICATIONS:**
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**
Rosemead Elementary S.D.

**PROJECT NAME:**
Mildred B. Janson E.S.

**LOCATION:**
8628 Marshall Street
Rosemead, CA 91770

**MODEL NUMBER:**
**DSA4183030-22**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 12/11/2024

**STRUCTURE TYPE:**
**TENSION SAILS**
**DSA**

**SIZE:** MAXIMUM
**30' x 133' MAX. x 15'e**

**SCALE : NONE**

**DRAWING SIZE:**
**D**

PRE-CHECK (PC) DOCUMENT
Code : 2022 CBC
A separate project application for construction is required.

| | | |
|---|---|---|
| Eng. By : | HH | 12/01/22 |
| Design By : | OS | 12/01/22 |
| Approved By : | MB | 12/01/22 |

**DRAWING DESCRIPTION:**
**SPECIFICATIONS**

**DWG.**
**DSA4183030-22**

**SHEET**
**25.2-2000**

**REV.**
**NC**

LICENSED ARCHITECT
HELENA L. JUBINK
22214
REN. 5-31-27
STATE OF CALIFORNIA

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MILDRED B. JANSON ELEMENTARY SCHOOL
NEW RELOCATABLES
8628 MARSHALL ST. ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BLVD.,
ROSEMEAD, CA 91770

NAC ARCHITECTURE
nacarchitecture.com
837 N. Spring Street, Third Floor
Los Angeles, CA 90012-2323
P:323.475.8075

| | |
|---|---|
| NAC NO | 161-23078 |
| DRAWN | AF |
| CHECKED | MO,GC |
| DATE | 02/27/2027 |

SPECIFICATIONS

NEW SHEET

**25.2-2000**

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