\\tetr-file1\Users\cesar.silva_TETR\Documents\12259-A-MCSD-FRANKLIN ES.PHASE 3_cesar.sil.rvt

MERCED CITY SCHOOL DISTRICT

FRANKLIN ELEMENTARY SCHOOL MODERNIZATION (PHASE III)

PHASE 3A - MODULAR CLASSROOMS

Franklin Elementary School

DSA FILE NO.: 24 - 35 | P.T.N.: 65771-138 | DSA APPL. NO.: 02-122839

PROJECT INFORMATION:

PROJECT ADDRESS:

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD.
MERCED, CA. 95348

NOTE:
THIS PROJECT (A#02-122839) SHALL NOT BE CERTIFIED UNTIL THE FOLLOWING PROJECTS ARE CERTIFIED:
-A# 02-120780
-A# 02-121019

PROJECT DESCRIPTION:

THIS MODERNIZATION PROJECT CONSISTS OF THE FOLLOWING:

EXISTING -

- EXTERIOR AND INTERIOR FINISH IMPROVEMENTS TO EXISTING RELOCATABLE CLASSROOMS P29, P30, P35, P36, P37, & P38
  DEDUCTIVE ALTERNATE BID NO. 2.

NEW -

- CONSTRUCTION OF (1) 7,706 SF. PERMANENT MODULAR BUILDING 700.
  (5) KINDERGARTEN CLASSROOMS AND STUDENT RESTROOMS.
- CONSTRUCTION OF (1) 6,273 SF. PERMANENT MODULAR BUILDING 800.
  (4) KINDERGARTEN CLASSROOMS AND STAFF/STUDENT RESTROOMS.
- CONSTRUCTION OF (1) 40'x44' PC. APPROVED SHADE STRUCTURE WITH SOLAR.
  PC #04-122188
  OWNER FURNISHED CONTRACTOR INSTALLED
- CONSTRUCTION OF (1) 16'x35' PC. APPROVED ENTRANCE SHADE STRUCTURE.
  PC #04-123290
  OWNER FURNISHED CONTRACTOR INSTALLED
  DEDUCTIVE ALTERNATE BID NO. 3.
- SITE UPGRADES TO INCLUDE THE FOLLOWING:
  TYPICAL SITE IMPROVEMENTS, FENCING, CONCRETE FLATWORK.
  UTILITIES
  FREE STANDING DRINKING FOUNTAIN.
  PLAY EQUIPMENT - OWNER FURNISHED CONTRACTOR INSTALLED.
  FLAGPOLE - DEDUCTIVE ALTERNATE BID NO. 4.
  MARQUEE SIGN - OFCI - DEDUCTIVE ALTERNATE BID NO. 5.

DEDUCTIVE ALTERNATE BID NO. 1

A SEPARATE BID LINE ITEM SHALL BE PROVIDED FOR THE SCOPE OF WORK IDENTIFIED IN THESE DRAWINGS WITH THE DEDUCTION OF THE CONCRETE PIT-SET FOUNDATION STEM WALL W/ 2" CONCRETE SLURRY. FOUNDATION VENTS, CRAWL SPACE ACCESS & CAST IRON GRILLES FROM THE SITE WORK CONTRACT AND ADDED TO THE MODULAR BUILDING CONTRACT.

DEDUCTIVE ALTERNATE BID NO. 2

A SEPARATE BID LINE ITEM SHALL BE PROVIDED FOR THE SCOPE OF WORK IDENTIFIED IN THESE DRAWINGS WITH THE DEDUCTION OF THE INTERIOR MODERNIZATION OF EXISTING P29, P30, P35, P36, P37 AND P38 PORTABLE CLASSROOMS.

DEDUCTIVE ALTERNATE BID NO. 3

A SEPARATE BID LINE ITEM SHALL BE PROVIDED FOR THE SCOPE OF WORK IDENTIFIED IN THESE DRAWINGS WITH THE DEDUCTION OF THE 16'x35' PC. APPROVED ENTRANCE CANOPY.

DEDUCTIVE ALTERNATE BID NO. 4

A SEPARATE BID LINE ITEM SHALL BE PROVIDED FOR THE SCOPE OF WORK IDENTIFIED IN THESE DRAWINGS WITH THE DEDUCTION OF THE FLAGPOLE AND ACCOMPANIED SITE WORK.

DEDUCTIVE ALTERNATE BID NO. 5

A SEPARATE BID LINE ITEM SHALL BE PROVIDED FOR THE SCOPE OF WORK IDENTIFIED IN THESE DRAWINGS WITH THE DEDUCTION OF THE MARQUEE SIGN AND ACCOMPANIED SITE AND UTILITY WORK.

ENFORCING AGENCY:

DIVISION OF THE STATE ARCHITECT / SACRAMENTO REGIONAL OFFICE.
AMERICAN WITH DISABILITIES ACT AND THE CALIFORNIA TITLE 24 ACCESSIBILITY GUIDELINES

FLOOD ZONE:

- FLOOD ZONE DESIGNATION: ZONE X
- FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION: 408 OF 1225
- EFFECTIVE DATE OF FIRM: DECEMBER 2, 2008
- BASE FLOOR ELEVATION (BFE):
- APPLICABLE COMMUNITY ORDINANCE SECTION: CITY OF MERCED, 060188

PLOT DATE: 2/27/2025 9:44:27 AM

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:___02-122839____ FILE NO:____24-35_____

THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

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 I.

I CERTIFY THAT:

[X] ALL DRAWINGS SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE.
[ ] DRAWING SHEET DENOTED IN THE SHEET INDEX AS FOLLOWS:_____
[ ] DRAWING SHEETS INCLUDED UNDER THE FOLLOWING PC APPROVAL(S):_____

IS/ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

ARCHITECT'S SIGNATURE	03/03/2025 DATE
CHRIS NIKKEL ARCHITECT TETER, INC.	
C-35953	11-30-2025
LICENSE NUMBER	EXPIRATION DATE

ARCHITECT'S STATEMENT

NONE

DEFERRED SUBMITTALS

ERRC IS NOT REQUIRED ON THIS PROJECT PER LFA.

LFA STATEMENT

GENERAL NOTES

1. A COPY TITLE 24 C.C.R. PARTS 1 THROUGH 6, PART 9 AND PART 12 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) AS REQUIRED IN SECTION 4-338, PART I, CAC, AND SHALL BE SUBMITTED TO, AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART 1, AND APPROVED T & I SHEET.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335, PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RETEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
6. A CLASS 1 INSPECTOR REQUIRED FOR THIS PROJECT SHALL BE EMPLOYED BY OWNER AND APPROVED BY ARCHITECT, STRUCTURAL ENGINEER, AND DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(c). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART I.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART 1.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH TITLE 24 SECTION 4-336, PART I.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(a) AND 4-341, PART I.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24 C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
13. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
14. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
15. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
    - ARCHITECT OR ENGINEER OF RECORD
    - STRUCTURAL ENGINEER (WHEN APPLICABLE)
    - DELEGATED PROFESSIONAL ENGINEER
16. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
17. THESE PLANS AND SPECIFICATIONS WILL COMPLY WITH FIRE SAFETY CBC CH. 33 AND CFC CH. 33 DURING CONSTRUCTION AND DEMOLITION.
18. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
19. DSA IS NOT SUBJECT TO ARBITRATION.
20. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
21. 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.
22. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
23. A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
24. 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.
25. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

PROJECT DIRECTORY

OWNER
MERCED CITY SCHOOL DISTRICT
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PHONE (209) 385 6343
CONTACT: BRYAN BEHN
EMAIL: BBehn@mcsd.k12.ca.us

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SHADE STRUCTURES & PLAY EQUIPMENT
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CONTACT: EVAN BASTIAN
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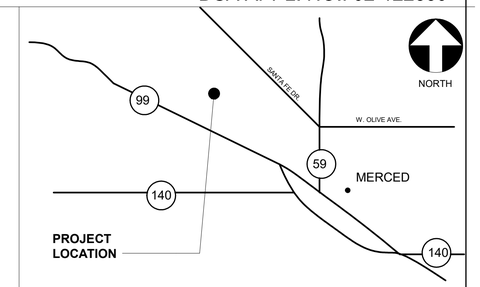
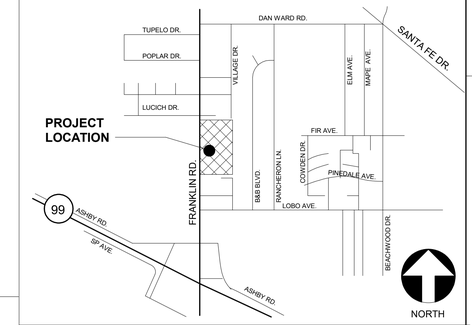


AREA MAP N.T.S.



VICINITY MAP N.T.S.

GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014
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 FIRE CODE (CFC), PART 9, C.C.R. TITLE 24
2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12
2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24, PART 11
C.C.R., TITLE 19 PUBLIC SAFETY
NFPA 13-22 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 24-19 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 25-13CA (CALIFORNIA NFPA 25 EDITION) INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
NFPA 72-22 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
UL 268-16 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED)
UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION)
AMERICANS WITH DISABILITIES ACT

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS AND EDITIONS REFER TO 2022 CBC (SFM) CHAPTER 35 REFERENCED STANDARDS AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80 REFERENCED STANDARDS.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35 REFERENCED STANDARDS, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT ★ CHRISTOPHER NIKKEL ★ C-35953 ★ REN 11-30-25 ★ STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
COVER

PROJECT NO.
23-12259.00

DRAWING
G000

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GENERAL	
G000	COVER
G001	SHEET INDEX
G100	FIRE AUTHORITY SITE PLAN
G200	BUILDING CODE ANALYSIS
G201	BUILDING CODE ANALYSIS
5	
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C100	TOPOGRAPHIC SURVEY LEGEND
C101	TOPOGRAPHIC SURVEY
C201	DEMOLITION PLAN
C301	SITE PLAN
C401	HORIZONTAL CONTROL PLAN
C501	GRADING AND DRAINAGE PLAN
C601	UTILITY PLAN
X100	SITE DETAILS
X200	UTILITY DETAILS
X201	UTILITY DETAILS
X300	FENCE DETAILS
X301	FENCE DETAILS
12	
LANDSCAPE	
L101	IRRIGATION PLAN
L102	IRRIGATION DETAILS
L103	IRRIGATION DETAILS
L201	PLANTING PLAN
L202	PLANTING DETAILS
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A000	LEGENDS AND ABBREVIATIONS
A100	OVERALL DEMOLITION SITE PLAN
A101	ENLARGED DEMOLITION SITE PLAN
A102	OVERALL PROPOSED SITE PLAN
A103	ENLARGED PROPOSED SITE PLAN
A113	PAINTING ELEVATIONS
A200	FLOOR PLANS - CLASSROOM BLDG. P29 - ALT. BID 2
A201	FLOOR PLANS - CLASSROOM BLDG. P30 - ALT. BID 2
A202	FLOOR PLANS - CLASSROOM BLDG. P37 - ALT. BID 2
A203	FLOOR PLANS - CLASSROOM BLDG. P38 - ALT. BID 2
A204	FLOOR PLANS - CLASSROOM BLDG. P35 - ALT. BID 2
A205	FLOOR PLANS - CLASSROOM BLDG. P36 - ALT. BID 2
A600	REFLECTED CEILING PLAN - CLASSROOM BLDG. P29
A601	REFLECTED CEILING PLAN - CLASSROOM BLDG. P30
A602	REFLECTED CEILING PLAN - CLASSROOM BLDG. P37
A603	REFLECTED CEILING PLAN - CLASSROOM BLDG. P38
A604	REFLECTED CEILING PLAN - CLASSROOM BLDG. P35
A605	REFLECTED CEILING PLAN - CLASSROOM BLDG. P36
A800	DETAILS
A801	DETAILS
A900	INTERIOR ELEVATIONS
A901	INTERIOR ELEVATIONS
A902	INTERIOR ELEVATIONS
23	
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E101	ELECTRICAL SITE PLAN - TEMP RELO
E102	ELECTRICAL SITE PLAN
E103	FIRE ALARM SITE PLAN
E104	ENLARGED ELECTRICAL SITE PLAN
E402	SIGNAL PLAN - CLASSROOMS 700 & 800
E501	FIRE ALARM PLAN - RELOCATABLES
E502	FIRE ALARM PLAN - CLASSROOMS 700 & 800
E600	ELECTRICAL DETAILS
E700	SINGLE LINE DIAGRAM
E710	FIRE ALARM RISER DIAGRAM & NOTES
E711	FIRE ALARM RISER DIAGRAM
E712	FIRE ALARM CALCULATIONS
E713	FIRE ALARM CALCULATIONS
E714	FIRE ALARM CALCULATIONS
E800	ELECTRICAL SCHEDULES, LEGEND & NOTES
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A0.0-PS	TITLE SHEET
A0.3-PS	FINISH, DOOR & WINDOW SCHEDULES
A0.3a-PS	WINDOW SCHEDULE
A0.10-PS	BUILDING 700 WEST/MIDDLE SECTION T-24 PERFORMANCE FORM
A0.11-PS	BUILDING 700 WEST/MIDDLE SECTION T-24 PERFORMANCE FORMS
A0.12-PS	BUILDING 700 EAST SECTION T-24 PERFORMANCE FORMS
A0.13-PS	BUILDING 700 EAST SECTION T-24 PERFORMANCE FORMS
A0.14-PS	BUILDING 800 WEST SECTION T-24 PERFORMANCE FORMS
A0.15-PS	BUILDING 800 WEST SECTION T-24 PERFORMANCE FORMS
A0.16-PS	BUILDING 800 EAST SECTION T-24 PERFORMANCE FORMS
A0.17-PS	BUILDING 800 EAST SECTION T-24 PERFORMANCE FORMS
A1.1-PS	FLOOR PLAN
A1.2-PS	FLOOR PLAN
A1.3-PS	FLOOR PLAN
A1.4-PS	FLOOR PLAN
A1.5-PS	FLOOR PLAN
A2.1-PS	REFLECTED CEILING PLAN
A2.2-PS	REFLECTED CEILING PLAN
A2.3-PS	REFLECTED CEILING PLAN
A3.2-PS	ROOF PLAN MONO SLOPE-GA METAL
A3.3-PS	ROOF PLAN MONO SLOPE-GA METAL
A3.4-PS	ROOF PLAN MONO SLOPE-GA METAL
A4.1-PS	INTERIOR ELEVATIONS
A4.2-PS	INTERIOR ELEVATIONS
A4.3-PS	INTERIOR ELEVATIONS
A5.4-PS	EXTERIOR ELEVATIONS STUCCO MONO SLOPE
A5.5-PS	EXTERIOR ELEVATIONS STUCCO MONO SLOPE
F3.1-PS	FLUSH TO GRADECONCRETE FOUNDATION PLAN
F3.2-PS	FLUSH TO GRADE CONCRETE FOUNDATION PLAN
F3.3-PS	FLUSH TO GRADE CONCRETE FOUNDATION PLAN
M1.1-PS	MECHANICAL PLAN
M1.2-PS	MECHANICAL PLAN
M1.3-PS	MECHANICAL PLAN WALL
E1.0-PS	ELECTRICAL PLAN
E1.1-PS	ELECTRICAL PLAN
E1.2-PS	ELECTRICAL PLAN
E1.3-PS	ELECTRICAL LIGHTING PLAN
E1.4-PS	ELECTRICAL LIGHTING PLAN
E1.5-PS	ELECTRICAL LIGHTING PLAN
P1.1-PS	PLUMBING FIXTURES PLAN WITH RESTROOMS ACCESSORIES
P1.2-PS	PLUMBING FIXTURES PLAN WITH RESTROOMS ACCESSORIES
P1.3-PS	PLUMBING FIXTURES PLAN WITH RESTROOMS ACCESSORIES
P1.4-PS	PLUMBING PLAN
P1.5-PS	PLUMBING PLAN
P1.6-PS	PLUMBING PLAN

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MODULAR BUILDING - PC# 02-121341	
A0.0	TITLE SHEET
A0.0a	DESIGN PARAMETERS, BUILDING & STRUCTURAL DATA & FIRE SAFTEY
A0.1	SPECIFICATIONS AND NOTES
A0.1a	SPECIFICATIONS
A0.3	FINISH, DOOR & WINDOW SCHEDULES
A0.4	SIGNAGE SPECIFICATIONS AND ACCESSIBILITY
A0.6	CAL GREEN SPECS
A0.7	STC CONSTRUCTION DETAILS
A0.8	DSA DOCUMENTS
A1.1	FLOOR PLAN 24'x40'
A2.0	REFLECTED CEILING DETAILS
A2.1	REFLECTED CEILING PLAN 24'x40'
A3.1	ROOF DETAILS - 22 GA METAL
A3.2	ROOF PLAN MONO & DUAL SLOPE - 22 GA METAL
A4.1	INTERIOR ELEVATIONS 24'x40'
A4.2	INTERIOR ELEVATIONS 36'x40'
A4.3	INTERIOR ELEVATIONS 48'x40'
A5.4-A	EXTERIOR ELEVATIONS 24'x40' - STUCCO OPTION 'A' (RIGHT HAND)
A8.0	ARCHITECTURAL DETAILS
A8.1	ARCHITECTURAL DETAILS
A8.2	SHEET METAL AND FLASHING DETAILS
A8.5	DETERIORATION PROTECTION STUCCO EXTERIOR FINISH CONC. FLOOR - WD STUDS
A10.0	RESTROOM DETAILS
A10.1a	RESTROOM ACCESSIBILITY DETAILS - ADULT
A10.1c	RESTROOM ACCESSIBILITY DETAILS - AGES 5 THRU 8
A12.0a	24'x40' RESTROOM OPTION & ACESSORY PLAN ADULT
A12.0c	24'x40' RESTROOM OPTION & ACESSORY PLAN AGES 5 THRU 8
F0.0	GENERAL DETAILS
F3.0	FLUSH TO GRADE CONCRETE FOUNDATION DETAILS
F3.1	FLUSH TO GRADE CONCRETE FOUNDATION PLAN
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
S0.0b	STRUCTURAL NOTES AND SPECIFICATIONS
S0.1P	BUILDING SECTIONS - PARAPET FRAMING AND DETAILS
S0.2	BUILDING SECTIONS - CONCRETE FLOOR
S0.3	TYPICAL STRUCTURAL DETAILS
S1.0	FLOOR FRAMING DETAILS - PLYWOOD & CONCRETE
S1.2	FLOOR FRAMING PLAN - CONCRETE
S2.0	ROOF FRAMING DETAILS
S2.1	ROOF TRUSS AND DETAILS
S2.2	ROOF FRAMING PLAN - PLYWOOD SHEATHING
S3.0	WALL FRAMING DETAILS - WOOD STUD
S3.2	WALL FRAMING ELEVATION WALL HEIGHT 9'-0" TO 10'-6"
S4.0	ALLOWABLE HEADER PENETRATION
M0.0	MECHANICAL DETAILS
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LS1.1A	GENERAL INFORMATION
LS1.2A	DSA 103
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LS3.1B	16' WIDE CANTILEVER WALKWAY - FRAMING & CONNECTION DETAILS
LS3.3B	16' WIDE CANTILEVER WALKWAY - MEGA-RIB ROOFING PLAN
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GN-1	GENERAL NOTES
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3	
TOTAL PAGES: 180	

SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-35353 STATE OF CALIFORNIA

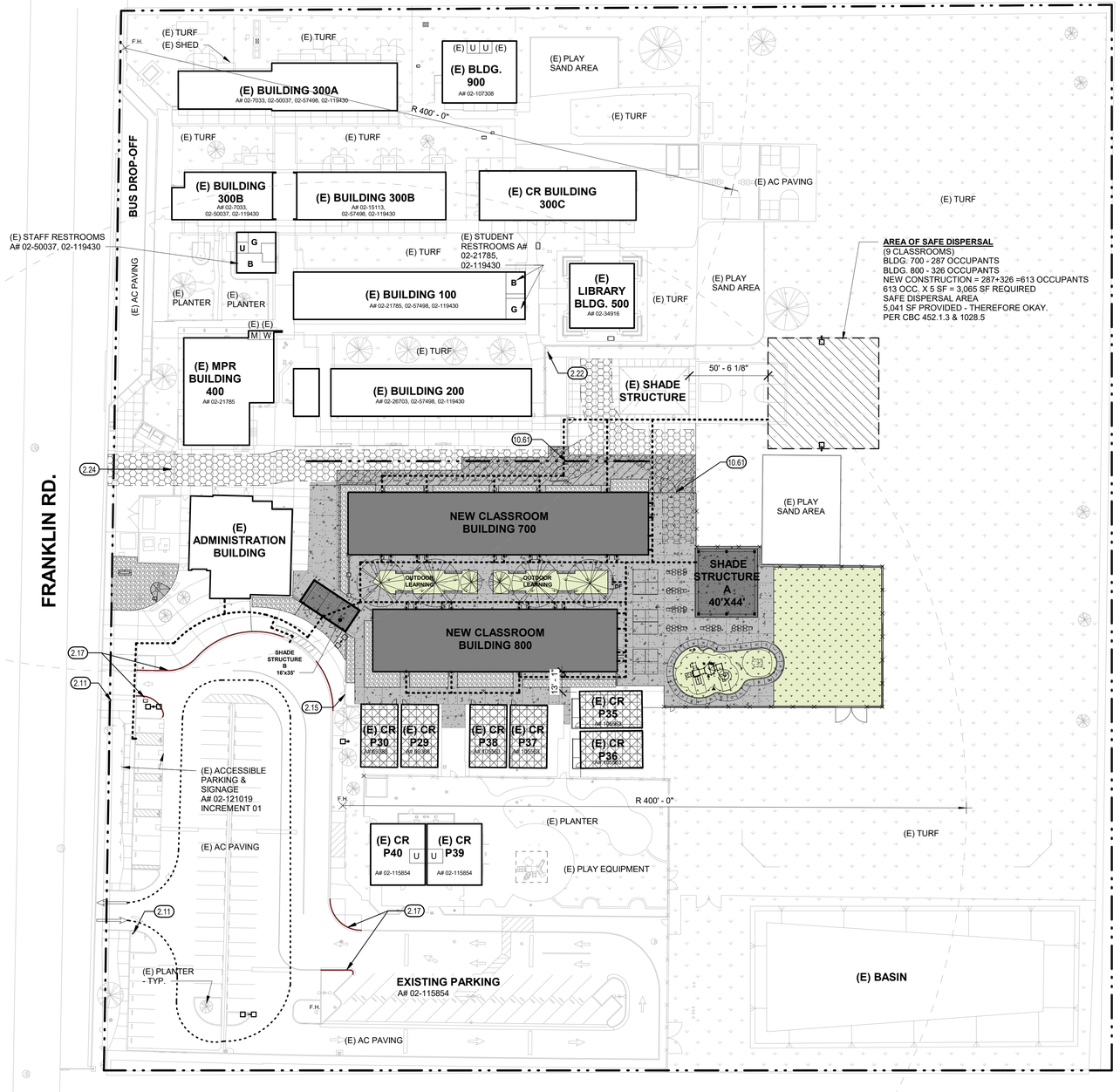
TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
SHEET INDEX

PROJECT NO.
23-12259.00

DRAWING
G001



DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01, Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	Merced City School District
Project Name/School:	Franklin Elementary School Additions - (2) modular buildings & (2) Shade Structures
Project Address:	2736 Franklin RD, Merced, CA 95348

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

	CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	✓			
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			✓	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✓	
6a.	**Acceptable Alternate:** The available fire and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✓	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 6a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Bryan Belsen Title: Director of Facilities

Signature: Date: 10/30/2024

LOCAL FIRE AUTHORITY (LFA) INFORMATION			
LFA Agency Name:	Merced County Fire Department		
LFA Review Official:	John Slate		
Title:	Battalion Chief	Work Phone:	209/611926
Work Email:	John.Slate@fire.ca.gov		

LFA Reviewer's Signature: Date: 10/30/2024

DGS DSA 810 (revised 12/09/20)
DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 — STATE OF CALIFORNIA

MERCED COUNTY — **FIRE DEPARTMENT**
3500 North Arrow Avenue
Atwater, CA 95301
Office (209) 385-7344
Fax (209) 725-0174

Fire Chief (209) 966-3620
MARK FRIESTEL
Assistant Chief (209) 385-7344

FIRE HYDRANT FLOW TEST REQUEST

APPLICANT

Site Contact Name: Bryan Belsen Phone: 209-385-6335
Site Address: 2326 Franklin Road, Merced, CA 95348
☐ Mailing Address is the same as above.
Mailing Address: Merced City School District, 444 W. 22nd St. Merced, Ca. 95340
Email: (for results) bbelsen@merced.k12.ca.us ; robert.ingalls@arsenas.com
Reason For Flow Test: Evaluate the likely possible problems for proposed new improvements / additions to a Facility (Secondary Service)

The Merced County Fire Department is responsible for providing test information on the location indicated on this form. By signing below, you are consenting to a fee of $270.00 for conducting this test. It is the requesting party's responsibility to ensure that the information is appropriate to the location of your project. Please attach map indication hydrant location(s).

Signature: Date: 5/24/24

HYDRANT TEST DATA

Water Supplied By: Merced Water Company Flow Start Time: 1200 pm

	A1	A2	A3
Size Opening:	2.5		
Coefficient:	0.9		
Pitot Reading:	34		
GPM:	1003		

Static Reading: 47 Residual: 21
Results at 20 PSI Residual: 1682

Tested By: SAE Tanner Banks

Email completed form to fire&lf@mercedfire.org

KEYNOTES (00.00)

2.11 EXISTING TOWAWAY SIGN TO REMAIN, DSA A#02-121019 INCREMENT 01
2.15 EXISTING ACCESSIBLE GATE TO REMAIN, DSA A# 02-121019 INCREMENT 01
2.17 EXISTING RED PAINTED CURB DESIGNATING NO PARKING AT FIRE LANE
2.22 EXISTING 4' WD. PEDESTRIAN GATE w/ PANIC HARDWARE TO REMAIN, DSA A#02-120780 ADDENDUM 1
2.24 EXISTING FIRE ACCESS GATE, KNOX BOX, EMERGENCY SERVICE KEY STORAGE, DSA A# 121019 INCREMENT 01
10.61 FIRE ACCESS GATE, KNOX BOX, EMERGENCY SERVICES KEY STORAGE

LEGEND

EXISTING BUILDING
NO WORK IN THIS SCOPE

PROPOSED NEW WORK
NEW BUILDING AND STRUCTURE IN SCOPE

EXISTING BUILDING
PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE SHEET A113

EXISTING CONCRETE PAVEMENT TO REMAIN

NEW CONCRETE PAVING

NEW HEAVY DUTY CONCRETE, SEE CIVIL

EXISTING TURF TO REMAIN

NEW TURF, SEE LANDSCAPE

NEW SYNTHETIC LAWN, SEE LANDSCAPE

NEW AGGREGATE BASE ROCK

(E) F.H. EXISTING FIRE HYDRANT

PROPERTY LINE

ASSUMED PROPERTY LINE

EXISTING 6' HT. CHAIN LINK FENCE TO REMAIN

NEW 6' HT. DECORATIVE METAL FENCE

EXISTING 6' HT. CHAIN LINK FENCE TO REMAIN

NEW 6' HT. CHAIN LINK FENCE

EXISTING TREE TO REMAIN

NEW TREE, SEE LANDSCAPE

ACCESSIBLE ROUTE, 2% MAX SLOPE ALL DIRECTIONS UNLESS RAMP OR SLOPED WALK DESIGNATES OTHER COMPLIANCE PER (2022 C.B.C. SECTION 11B - 206)

ALTERNATE EMERGENCY VEHICLE AND PERSONNEL ACCESS ACCEPTED FOR PROVIDING FIRE SUPRESSION AND PROTECTION OF LIFE AND PROPERTY

SAFE DISPERSAL AREA

20' WIDE FIRE LANE

THE ACCESSIBLE ROUTE IS A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES OF AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES. ACCESSIBLE ROUTES SHALL COMPLY WITH CBC 11B-402. IN GENERAL, EXTERIOR ACCESSIBLE ROUTES SHALL COMPLY WITH THE FOLLOWING: SHALL BE STABLE, FIRM, AND SLIP RESISTANT; HAVE A 1:20 MAXIMUM RUNNING SLOPE AND 1:48 MAXIMUM CROSS-SLOPE FOR WALKS; HAVE A 1:12 MAXIMUM SLOPE FOR RAMPS AND CURB RAMPS; HAVE A 1/4:12 MAXIMUM CROSS SLOPE; HAVE A 48" MINIMUM WIDTH; HAVE NO VERTICAL OFFSETS GREATER THAN 1/4"; OFFSETS BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT EXCEEDING 1V:2H; HAVE NO OPENINGS ALLOWING THE PASSAGE OF A 1/2" DIAMETER SPHERE; ELONGATED OPENINGS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL; HAVE A MINIMUM 6" HIGH CURB OR GUARDRAIL AT EDGES WHERE THE DROP OFF EXCEEDS 4" EXCEPT WHERE ADJACENT TO VEHICULAR WAYS; BE FREE OF ELEMENTS PROJECTING MORE THAN 4" FROM WALLS BETWEEN 27" AND 80" ABOVE THE WALKING SURFACE; AND HAVE 80" MINIMUM VERTICAL CLEARANCE.

DESIGN PROFESSIONAL IN 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 BEEN 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 THRESHOLD 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 NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT ★ CHRISTOPHER B. NIKKEL ★ C-35353 ★ Exp. 10-31-26 ★ STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE AUTHORITY SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
G100

PLOT DATE: 2/27/2025 9:44:35 AM

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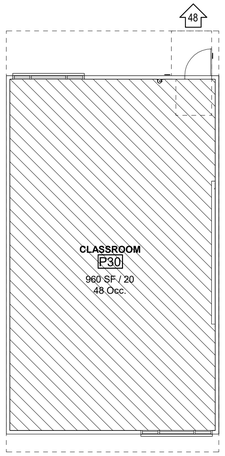
FIRE AUTHORITY SITE PLAN
1" = 40'-0"
8

\\tetr-file1\Users\cesar.silva_TETR\Documents\12259-A-MCSD-FRANKLIN ES.PHASE 3_cesar.sil.rvt



BUILDING CODE ANALYSIS

BUILDINGS - EXISTING RELOCATABLES
P29', 'P30', 'P35', 'P36', 'P37', & 'P38'

A. CONSTRUCTION TYPE (CBC SECTION 602): V-B (NON-RATED)

B. NON-SPRINKLERED

C. OCCUPANCY GROUPS (CBC SECTION 302): CLASSROOMS 'E' - EDUCATIONAL (CBC 308.5.1)

D. SEPARATION OF OCCUPANCIES (CBC TABLE 508.4): NONE REQUIRED.

E. ALLOWABLE AREA FACTOR (CBC TABLE 506.2): 'E' OCC., VB CONST., 1 STORY: 9,500 SF.

F. BUILDING AREA MODIFICATION (CBC SECTION 506): NON REQUIRED.

G. ACTUAL AREA:
- BUILDING 'P29' : 960 SF. + 162 SF O.H. = (BUILDING + OVERHANG)
- BUILDING 'P30' : 960 SF. + 162 SF O.H. = (BUILDING + OVERHANG)
- BUILDING 'P35' : 960 SF. + 162 SF O.H. = (BUILDING + OVERHANG)
- BUILDING 'P36' : 960 SF. + 162 SF O.H. = (BUILDING + OVERHANG)
- BUILDING 'P37' : 960 SF. + 162 SF O.H. = (BUILDING + OVERHANG)
- BUILDING 'P38' : 960 SF. + 162 SF O.H. = (BUILDING + OVERHANG)

TOTAL BUILDING AREA: 5,760 SF w/OVERHANG: 6,732 SF

H. ALLOWABLE HEIGHT AND STORY (CBC TABLE 504.3): (E, VB, NS)

1. ALLOWABLE HEIGHT: 40'-0"
2. ALLOWABLE STORIES: 1 STORY

I. ACTUAL HEIGHT AND STORY:

1. ACTUAL HEIGHT: 11'-8"
2. ACTUAL STORIES: 1 STORY

OCCUPANT LOAD FACTORS

PER 2022 CALIFORNIA BUILDING CODE TABLE 1004.5:

A. 'E' - CLASSROOM
20 SF/OCC.
960 SF TOTAL BUILDING 960*6 = 5,760 SF.
5,760 SF/20 = 288 OCC. TOTAL

BUILDING 'P29' ; OCCUPANT LOAD: 48 OCCUPANTS
BUILDING 'P30' ; OCCUPANT LOAD: 48 OCCUPANTS
BUILDING 'P35' ; OCCUPANT LOAD: 48 OCCUPANTS
BUILDING 'P36' ; OCCUPANT LOAD: 48 OCCUPANTS
BUILDING 'P37' ; OCCUPANT LOAD: 48 OCCUPANTS
BUILDING 'P38' ; OCCUPANT LOAD: 48 OCCUPANTS

EGRESS

A. COMMON PATH OF EGRESS TRAVEL (CBC TABLE 1006.2.1):
a. NOT APPLICABLE.

B. EXIT ACCESS TRAVEL DISTANCE (CBC SECTION 1017 & TABLE 1017.2):
a. 'E' , OCC.: 200'-0" MAX.

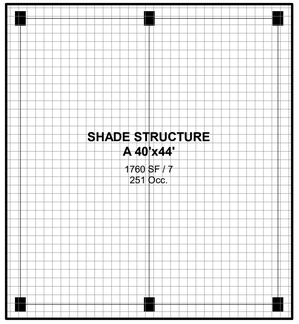
C. NUMBER OF EXITS REQUIRED (CBC SECTION 1017 & TABLE 1006.2.1):
a. 1 EXIT REQUIRED & PROVIDED.

D. EGRESS WIDTH (CBC SECTION 1005.3.1): 0.3"/OCCC.:
a. NOT APPLICABLE.

E. EGRESS WIDTH OTHER COMPONENT (CBC SECTION 1005.3.2):
a. NOT APPLICABLE

BUILDING - EXISTING RELOCATABLES

1/8" = 1'-0" | 16



BUILDING CODE ANALYSIS

SHADE STRUCTURE A
PLAYGROUND SHADE STRUCTURE

A. CONSTRUCTION TYPE (CBC SECTION 602): II-B (NON-RATED)

B. NON-SPRINKLERED

C. OCCUPANCY GROUPS (CBC SECTION 302): 'A2' - ASSEMBLY

D. SEPARATION OF OCCUPANCIES (CBC TABLE 508.4): NONE REQUIRED.

E. ALLOWABLE AREA FACTOR (CBC TABLE 506.2): 'A2' OCC., II-B CONST., 1 STORY: 6,000 SF.

F. BUILDING AREA MODIFICATION (CBC SECTION 506): NONE REQUIRED.

G. ACTUAL AREA:
- SHADE STRUCTURE 'A': 1,760 SF. (BUILDING + OVERHANG)

H. ALLOWABLE HEIGHT AND STORY (CBC TABLE 504.3):

1. ALLOWABLE HEIGHT: 40'-0"
2. ALLOWABLE STORIES: 1 STORY

I. ACTUAL HEIGHT AND STORY: SHADE STRUCTURES A

1. ALLOWABLE HEIGHT: 14'-0"
2. ACTUAL STORIES: 1 STORY

OCCUPANT LOAD FACTORS

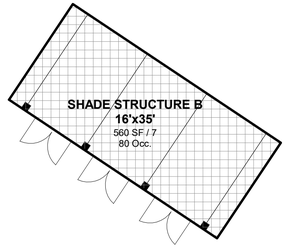
PER 2022 CALIFORNIA BUILDING CODE TABLE 1004.5:

A. 'A2' - ASSEMBLY - SHADE STRUCTURE 'A'
(CONCENTRATED, CHAIRS ONLY - NOT FIXED) : 15 SF/OCC. NET.

SHADE STRUCTURE 'A': OCCUPANT LOAD: 118 OCCUPANTS

BUILDING - SHADE STRUCTURE A

1/16" = 1'-0" | 7



BUILDING CODE ANALYSIS

SHADE STRUCTURE B
ENTRANCE SHADE STRUCTURE

A. CONSTRUCTION TYPE (CBC SECTION 602): II-B (NON-RATED)

B. NON-SPRINKLERED

C. OCCUPANCY GROUPS (CBC SECTION 302): 'E' - ASSEMBLY

D. SEPARATION OF OCCUPANCIES (CBC TABLE 508.4): NONE REQUIRED.

E. ALLOWABLE AREA FACTOR (CBC TABLE 506.2): 'E' OCC., II-B CONST., 1 STORY: 6,000 SF.

F. BUILDING AREA MODIFICATION (CBC SECTION 506): NONE REQUIRED.

G. ACTUAL AREA:
-SHADE STRUCTURE 'B': 560 SF. (BUILDING + OVERHANG)

H. ALLOWABLE HEIGHT AND STORY (CBC TABLE 504.3):

1. ALLOWABLE HEIGHT: 40'-0"
2. ALLOWABLE STORIES: 1 STORY

I. ACTUAL HEIGHT AND STORY: SHADE STRUCTURES B

1. ALLOWABLE HEIGHT: 14'-0"
2. ACTUAL STORIES: 1 STORY

OCCUPANT LOAD FACTORS

PER 2022 CALIFORNIA BUILDING CODE TABLE 1004.5:

A. 'E' - ASSEMBLY - SHADE STRUCTURE 'B'
(CONCENTRATED, CHAIRS ONLY - NOT FIXED) : 20 SF/OCC. NET.

SHADE STRUCTURE 'B' ; OCCUPANT LOAD: 28 OCCUPANTS

ACCESSIBLE GATES WITH PANIC HARDWARE.

BUILDING - SHADE STRUCTURE B

1/16" = 1'-0" | 3

LEGEND

- PATH OF TRAVEL
- MOST REMOTE OCCUPIED LOCATION
- DIRECTION OF EGRESS
- XX — NUMBER OF OCCUPANTS EXITING
- ROOM 101 — ROOM NAME & NUMBER
- 150 SF — ROOM AREA
- 50 SF/Occ. — OCCUPANT LOAD FACTOR
- 00 Occ. — CALCULATED OCCUPANT LOAD
- F.E. — BRACKET MOUNTED FIRE EXTINGUISHER, SEE
- HATCH 1 (NO HATCH) CIRCULATION SPACE
- HATCH 2 (GRID) 'A-3' OCCUPANCY; SHADE STRUCTURES
- HATCH 3 (DIAGONAL) 'E' EDUCATIONAL; CLASSROOM 20 SF/OCC.

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1,
TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014
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 FIRE CODE (CFC), PART 9, C.C.R. TITLE 24
2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12
2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24, PART 11
C.C.R., TITLE 19 PUBLIC SAFETY
NFPA 13-22 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 24-19 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 25-13CA (CALIFORNIA NFPA 25 EDITION) INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
NFPA 72-22 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
UL 268-16 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED)
UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION)
AMERICANS WITH DISABILITIES ACT

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS AND EDITIONS REFER TO 2022 CBC (SFM) CHAPTER 35 REFERENCED STANDARDS AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80 REFERENCED STANDARDS.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35 REFERENCED STANDARDS, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

PLOT DATE: 2/27/2025 9:44:37 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT ★ CHRISTOPHER B. NIKKEL ★ C - 15363 ★ STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

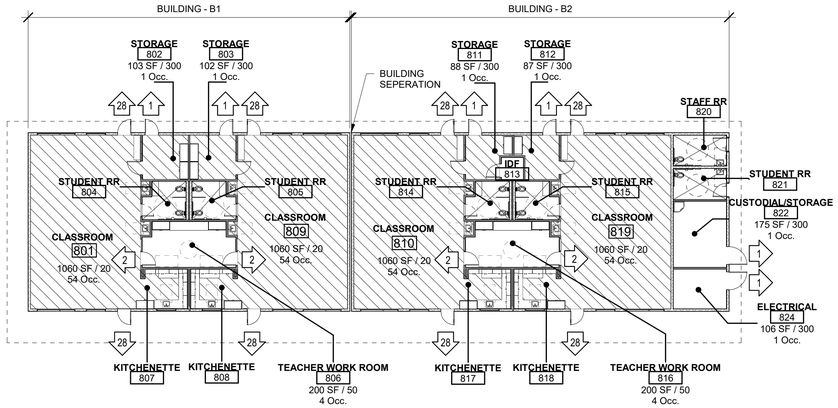
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
BUILDING CODE ANALYSIS

PROJECT NO.
23-12259.00

DRAWING
G200



BUILDING CODE ANALYSIS

BUILDING 800
'800' - PERMINATE MODULAR CLASSROOM BUILDING - (4) CLASSROOMS
'P35' & 'P36' - MODULAR CLASSROOM BUILDINGS - (2) CLASSROOMS

A. CONSTRUCTION TYPE (CBC SECTION 602): V-B (NON-RATED)

B. NON-SPRINKLERED

C. OCCUPANCY GROUPS (CBC SECTION 302): CLASSROOMS 'E' - EDUCATIONAL (CBC 308.5.1)

D. SEPARATION OF OCCUPANCIES (CBC TABLE 508.4): NONE REQUIRED.

E. ALLOWABLE AREA FACTOR (CBC TABLE 506.2): 'E' OCC., VB CONST., 1 STORY: 9,500 SF.

F. BUILDING AREA MODIFICATION (CBC SECTION 506): NONE REQUIRED.

G ACTUAL AREA:
- BUILDING: 6,273 SF. + 784 SF O.H. = (BUILDING + OVERHANG)

TOTAL BUILDING AREA: 7,221 SF w/ OVERHANG: 8,005 SF

COMBINED BUILDING AREA

- BUILDING '800': 8,005 SF
- BUILDING 'P35': 960 SF
- BUILDING 'P36': 960 SF

TOTAL BUILDING AREA: 8,181 SF w/ OVERHANG: 9,301 SF

H. ALLOWABLE HEIGHT AND STORY (CBC TABLE 504.3): (E, VB. NS)

1. ALLOWABLE HEIGHT: 40'-0"
2. ALLOWABLE STORIES: 1 STORY

I. ACTUAL HEIGHT AND STORY:

1. ACTUAL HEIGHT: 14'-0"
2. ACTUAL STORIES: 1 STORY

OCCUPANT LOAD FACTORS

PER 2022 CALIFORNIA BUILDING CODE TABLE 1004.5:

A. 'E'- CLASSROOM
20 SF/OCC
TOTAL BUILDING = 9,301 SF.

BUILDING B1
CLASSROOM L01 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
CLASSROOM L02 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
TEACHER WORK ROOM - 200 SF/50 = OCCUPANT LOAD:4 OCCUPANTS
STORAGE ROOM - 103 SF/300 = OCCUPANT LOAD:1 OCCUPANT
STORAGE ROOM - 102 SF/300 = OCCUPANT LOAD:1 OCCUPANT

TOTAL USABLE AREA = 2,525 SF
TOTAL OCCUPANT LOAD = 114 OCCUPANTS TOTAL

BUILDING - B2
CLASSROOM L03 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
CLASSROOM L04 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
ELECTRICAL ROOM - 106 SF/300 = OCCUPANT LOAD:1 OCCUPANT
CUSTODIAL/STORAGE ROOM - 175 SF/300 = OCCUPANT LOAD:1 OCCUPANT
BUILDING 'P35' - 960 SF/20 = OCCUPANT LOAD:48 OCCUPANTS
BUILDING 'P36' - 960 SF/20 = OCCUPANT LOAD:48 OCCUPANTS
TEACHER WORK ROOM - 200 SF/50 = OCCUPANT LOAD:4 OCCUPANTS
STORAGE - 88 SF/300 = OCCUPANT LOAD:1 OCCUPANT
STORAGE - 87 SF/300 = OCCUPANT LOAD:1 OCCUPANT

TOTAL USABLE AREA = 4,696 SF
TOTAL OCCUPANT LOAD = 212 OCCUPANTS TOTAL

TOTAL OCCUPANT LOAD B1 & B2 = 326 OCC. TOTAL

EGRESS

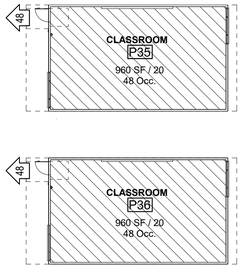
A. COMMON PATH OF EGRESS TRAVEL (CBC TABLE 1006.2.1):
a. OK OR COMPLIED

B. EXIT ACCESS TRAVEL DISTANCE (CBC SECTION 1017 & TABLE 1017.2):
a. 'E', OCC.: 200'-0" MAX.

C. NUMBER OF EXITS REQUIRED (CBC SECTION 1006 & TABLE 1006.2.1):
a. 2 EXIT REQUIRED & PROVIDED.

D. EGRESS WIDTH STAIRS (CBC SECTION 1005.3.1): 0.3"/OCCC.:
a. NOT APPLICABLE

E. EGRESS WIDTH COMPONENT (CBC SECTION 1005.3.2):
a. OK OR COMPLIED



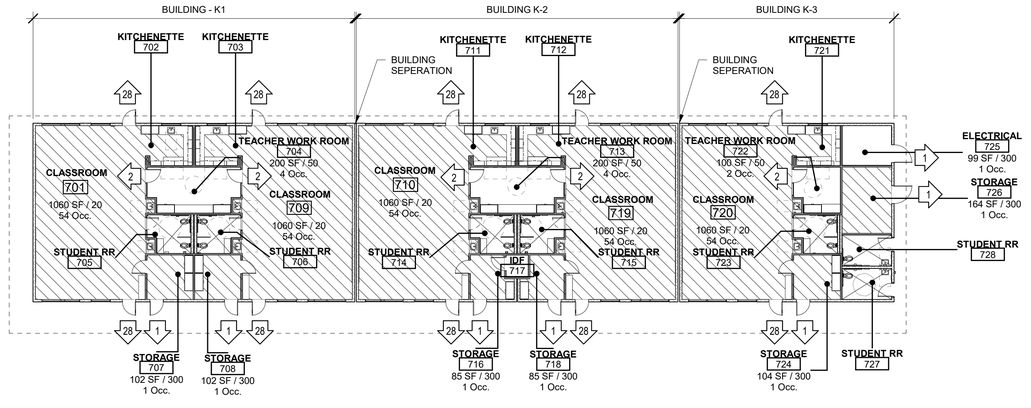
ASSISTED LISTENING SYSTEM

PROVIDE PORTABLE ASSISTED LISTENING SYSTEM FOR EACH BUILDING TO SERVE EACH CLASSROOM, SYSTEM TO BE CENTRALY LOCATED ON SITE AND BROUGHT TO THE CLASSROOM AT THE REQUEST OF THE USER.

TOTAL OCCUPANT LOAD = 326
TOTAL RECEIVERS REQUIRED = 13.04
TOTAL RECEIVERS PROVIDED = 14
QUANTITY OF HEARING-AID
COMPATIBLE DEVICES REQUIRED(25%) = 4

ITEMS TO BE INCLUDED:
1. (1) PPA T45 TRANSMITTER
2. (16) PPA R37 RECEIVERS
3. (2) NKL 001 NECKLOOPS
4. (3) BAR 013 SINGLE MINI BARBUDS
5. (1) ANT 025 WHIP ANTENNA
6. (1) TFP 048 POWER SUPPLY
7. (1) WLC 004 MAIN POWER CORD (0.5)
8. (1) WCA 013 RCA AUDIO CABLE 3FT
9. (16) BAT 001-2 AA ALKALINE BATTERIES
10. (1) IDP 008 WALL PLAQUE

BUILDING - NEW CLASSROOM BUILDING 800 | 1/16" = 1'-0" | 16



BUILDING CODE ANALYSIS

BUILDING 700
'700' - PERMINATE MODULAR CLASSROOM BUILDING - (5) CLASSROOMS

A. CONSTRUCTION TYPE (CBC SECTION 602): V-B (NON-RATED)

B. NON-SPRINKLERED

C. OCCUPANCY GROUPS (CBC SECTION 302): CLASSROOMS 'E' - EDUCATIONAL (CBC 308.5.1)

D. SEPARATION OF OCCUPANCIES (CBC TABLE 508.4): NONE REQUIRED.

E. ALLOWABLE AREA FACTOR (CBC TABLE 506.2): 'E' OCC., VB CONST., 1 STORY: 9,500 SF.

F. BUILDING AREA MODIFICATION (CBC SECTION 506): NONE REQUIRED.

G. ACTUAL AREA:
- BUILDING: 7,706 SF. + 964 SF O.H. = (BUILDING + OVERHANG)

TOTAL BUILDING AREA: 7,706 SF w/ OVERHANG: 8,670 SF

H. ALLOWABLE HEIGHT AND STORY (CBC TABLE 504.3): (E, VB, NS)

1. ALLOWABLE HEIGHT: 40'-0"
2. ALLOWABLE STORIES: 1 STORY

I. ACTUAL HEIGHT AND STORY:

1. ACTUAL HEIGHT: 14'-0"
2. ACTUAL STORIES: 1 STORY

OCCUPANT LOAD FACTORS

PER 2022 CALIFORNIA BUILDING CODE TABLE 1004.5:

A. 'E' - CLASSROOM
20 SF/OCC
TOTAL BUILDING = 6,541 SF.

BUILDING K-1
CLASSROOM K01 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
CLASSROOM K02 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
TEACHER WORK ROOM - 200SF/50 = OCCUPANT LOAD:4 OCCUPANTS
STORAGE ROOM - 102 SF/300 = OCCUPANT LOAD:1 OCCUPANT
STORAGE ROOM - 102 SF/300 = OCCUPANT LOAD:1 OCCUPANT

TOTAL USABLE AREA = 2,524 SF
TOTAL OCCUPANT LOAD = 114 OCCUPANTS TOTAL

BUILDING K-2
CLASSROOM K03 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
CLASSROOM K04 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
TEACHER WORK ROOM - 200 SF/50 = OCCUPANT LOAD:4 OCCUPANTS
STORAGE ROOM - 85 SF/300 = OCCUPANT LOAD:1 OCCUPANT
STORAGE ROOM - 85 SF/300 = OCCUPANT LOAD:1 OCCUPANT

TOTAL USABLE AREA = 2,490 SF
TOTAL OCCUPANT LOAD = 114 OCCUPANTS TOTAL

BUILDING - K3
CLASSROOM K05 - 1,060 SF/20 = OCCUPANT LOAD:54 OCCUPANTS
ELECTRICAL ROOM - 99 SF/300 = OCCUPANT LOAD:1 OCCUPANT
TEACHER WORK ROOM - 100 SF/50 = OCCUPANT LOAD:2 OCCUPANTS
STORAGE ROOM - 164 SF/300 = OCCUPANT LOAD:1 OCCUPANT
STORAGE ROOM - 104 SF/300 = OCCUPANT LOAD:1 OCCUPANT

TOTAL USABLE AREA = 1,527 SF
TOTAL OCCUPANT LOAD = 59 OCCUPANTS TOTAL

TOTAL OCCUPANT LOAD K1, K2, & K3 = 287 OCC. TOTAL

EGRESS

A. COMMON PATH OF EGRESS TRAVEL (CBC TABLE 1006.2.1):
a. OK OR COMPLIED

B. EXIT ACCESS TRAVEL DISTANCE (CBC SECTION 1017 & TABLE 1017.2):
a. 'E' , OCC.: 200'-0" MAX.

C. NUMBER OF EXITS REQUIRED (CBC SECTION 1006 & TABLE 1006.2.1):
a. 2 EXIT REQUIRED & PROVIDED.

D. EGRESS WIDTH STAIRS (CBC SECTION 1005.3.1): 0.3"/OCCC.:
a. NOT APPLICABLE.

E. EGRESS WIDTH COMPONENT (CBC SECTION 1005.3.2):
a. OK OR COMPLIED

ASSISTED LISTENING SYSTEM

PROVIDE PORTABLE ASSISTED LISTENING SYSTEM FOR EACH BUILDING TO SERVE EACH CLASSROOM, SYSTEM TO BE CENTRALY LOCATED ON SITE AND BROUGHT TO THE CLASSROOM AT THE REQUEST OF THE USER.

TOTAL OCCUPANT LOAD = 287
TOTAL RECEIVERS REQUIRED = 11.78
TOTAL RECEIVERS PROVIDED = 12
QUANTITY OF HEARING-AID
COMPATIBLE DEVICES REQUIRED(25%) = 3

ITEMS TO BE INCLUDED:
1. (1) PPA T45 TRANSMITTER
2. (16) PPA R37 RECEIVERS
3. (2) NKL 001 NECKLOOPS
4. (3) BAR 013 SINGLE MINI BARBUDS
5. (1) ANT 025 WHIP ANTENNA
6. (1) TFP 048 POWER SUPPLY
7. (1) WLC 004 MAIN POWER CORD (0.5)
8. (1) WCA 013 RCA AUDIO CABLE 3FT
9. (16) BAT 001-2 AA ALKALINE BATTERIES
10. (1) IDP 008 WALL PLAQUE

BUILDING - NEW CLASSROOM BUILDING 700 | 1/16" = 1'-0" | 3

LEGEND

- PATH OF TRAVEL
- MOST REMOTE OCCUPIED LOCATION
- DIRECTION OF EGRESS
- XX — NUMBER OF OCCUPANTS EXITING
- ROOM 101 — ROOM NAME & NUMBER
- 150 SF — ROOM AREA
- 50 SF/Occ. — OCCUPANT LOAD FACTOR
- 00 Occ. — CALCULATED OCCUPANT LOAD
- F.E. — BRACKET MOUNTED FIRE EXTINGUISHER, SEE
- HATCH 1 (NO HATCH) CIRCULATION SPACE
- HATCH 2 (GRID) 'A-3' OCCUPANCY; SHADE STRUCTURES
- HATCH 3 (DIAGONAL) 'E' EDUCATIONAL; CLASSROOM 20 SF/OCC.

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014
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 FIRE CODE (CFC), PART 9, C.C.R. TITLE 24
2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12
2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24, PART 11
C.C.R., TITLE 19 PUBLIC SAFETY
NFPA 13-22 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 24-19 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 25-13CA (CALIFORNIA NFPA 25 EDITION) INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
NFPA 72-22 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
UL 268-16 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED)
UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION)
AMERICANS WITH DISABILITIES ACT

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS AND EDITIONS REFER TO 2022 CBC (SFM) CHAPTER 35 REFERENCED STANDARDS AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80 REFERENCED STANDARDS.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35 REFERENCED STANDARDS, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-35363 STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
BUILDING CODE ANALYSIS

PROJECT NO.
23-12259.00

DRAWING
G201

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GENERAL TOPOGRAPHIC SURVEY LEGEND:

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

AB	ABUTMENT
AC	ASPHALTIC CONCRETE
ACE	ASPHALTIC CONCRETE EDGE
AD	ASPHALTIC CONCRETE DIKE
AWT	ALL-WEATHER TRACK
BD	BRIDGE DECK
BFC	BOTTOM FACE OF CURB
BGST	STEPS
BGTR	TOP OF ROOF
BGV	BUILDING VENTS
BOD	BOTTOM OF DITCH
BR	BARRICADE
BRK	BRICK
BW	BARRIER WALL
CB	CATCH BASIN
CDA	CONCRETE DRIVE APPROACH
CE	CONCRETE EDGE
CMP	CORRUGATED METAL PIPE
CON	CONCRETE
COTH	COMMUNICATION TRENCH
CR	CROWN OF ROAD
CRQ	QUARTER CROWN
CS	CONCRETE SLAB
CULV	CULVERT
CW	CONCRETE WALL
DD	DOWN DRAIN
DFL	DITCH FLOWLINE
DWY	DRIVEWAY
ECTH	ELECTRICAL TRENCH
EDR	EDGE OF DIRT ROAD
EGR	EDGE OF GRAVEL ROAD
EOD	EDGE OF OILED DIRT
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
ET	EDGE OF TRAVELED WAY
FF	FINISH FLOOR
FOTH	FIBER OPTIC TRENCH
GB	GRADE BREAK
GFL	GUTTER FLOWLINE
GRA	GRAVEL SPOT SHOT
GRAE	EDGE OF GRAVEL
GSTH	GAS TRENCH
HDR	WOOD HEADER
HW	HEAD WALL
KR	K-RAIL
LIP	LIP OF GUTTER
LSDE	DECOMPOSED GRANITE EDGE
LSDG	DECOMPOSED GRANITE
LSGC	GROUND COVER
LSGF	GOLF COURSE FAIRWAY
LSGG	GOLF COURSE GREEN
LSGT	GOLF COURSE TEE
LSLN	TURF
LSSA	SAND
LSSP	SLOPE PROTECTION
LSST	GOLF COURSE SAND TRAP
LSTF	TURF
NPTH	NON-POTABLE TRENCH
PA	PATIO
PGTH	PROPANE GAS TRENCH
POS	POINT ON SLOPE
RCP	REINFORCED CONCRETE
RIEL	RIPARIAN EDGE OF LAKE
RIEP	RIPARIAN EDGE OF POND
RIES	RIPARIAN EDGE OF STREAM
RIEW	RIPARIAN EDGE OF WETLAND
RIFL	RIPARIAN FLOWLINE
RIMC	RIPARIAN MISC.
RIP	RIP-RAP SLOPE PROTECTION
RK	ROCK
RW	RETAINING WALL
SB	SPEED BUMP
SDCD	STORM DRAIN CROSS DRAIN
SDFL	STORM DRAIN FLOWLINE
SDGR	STORM DRAIN GRATE
SDMG	STORM DRAIN MANHOLE W/ GRATE
SSFL	SEWER FLOWLINE
SDTH	STORM DRAIN TRENCH
SSGT	STORM DRAIN GREASE TRAP
SSST	SEWER TANK (SEPTIC)
SSTH	SEWER TRENCH
SWK	SIDEWALK
SWL	SWALE
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALK
TF	TOP OF FOOTING
TFC	TOP FACE OF CURB
TFW	TOP FACE OF WALK
TLTH	TELEPHONE TRENCH
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TRDO	TRUNCATED DOMES
TVTH	TV TRENCH
TW	TOP OF WALL
UTH	UNIDENTIFIED TRENCH/SCAR LINE
VGFL	VALLEY GUTTER FLOWLINE
VGR	VALLEY GUTTER
WALBA	BARRIER WALL
WALBW	BLOCK WALL
WALCW	CONCRETE WALL
WALHW	HEAD WALL
WALRW	RETAINING WALL
WALWW	WING WALL
WCR	WHEELCHAIR RAMP
WLPD	WELL PAD
WTTH	WATER TRENCH
WW	WING WALL
(335.21)	EXISTING ELEVATION
AL	ACCENT LIGHT
AV	ALFALFA VALVE
	BACKFLOW ASSEMBLY
	BASKETBALL GOAL
BOV	BLOW-OFF VALVE
	BM=BENCHMARK; OR SBM=SITE BENCHMARK
BO	BOLLARD
CO	CLEANOUT
COPB	COMMUNICATION PULLBOX
CVA	COMMUNICATION VAULT
312.55	SURVEY CONTROL MONUMENT
DF	DRINKING FOUNTAIN
DS	DOORSTOP
DW	DRYWELL
EG	ELECTRICAL GROUND
ELC	ELECTRICAL CONDUIT
	ELECTRICAL METER
EPB	ELECTRICAL PULLBOX
	ELECTRICAL VAULT LID
ETS	GAS ELECTRONIC TESTING STATION
FDC	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
FP	FENCE POST
FPO	FLAG POLE
GAS	GAS LINE; DIAMETER AS SHOWN
GR	GAS REGULATOR
GAV	IRRIGATION GATE VALVE
G	GAS METER
GOP	GOAL POST
GP	GUY POLE
4"GR	GRATE; DIAMETER AS SHOWN
GS	GATE STOP
GSR	GAS RISER
GV	GAS VALVE
GRD	GROUNDING ROD
GUY	GUY WIRE
HB	HOSE BIBB
HR	HANDRAIL
ICB	IRRIGATION CONTROLLER
	IRRIGATION DISTRICT MANHOLE
IVA	IRRIGATION REMOTE CONTROL VALVE
ISB	IRRIGATION SPLICE BOX
IHB	IN-GROUND HOSE BIBB
IP	IRON PIPE
JP	JOINT UTILITY POLE
LP	LIGHT POLE
MB	MAIL BOX
MH	MANHOLE
MV	MANUAL IRRIGATION VALVE
PB	PULLBOX
PIV	POST INDICATOR VALVE
	UTILITY STUB
	PARKING METER
4"POST	POST; DIAMETER AS SHOWN
PP	POWER POLE
6" PVC	PVC PIPE; DIAMETER AS SHOWN
QC	QUICK COUPLER VALVE
RD	ROOF DRAIN
RDU	ROOF DRAIN UNDERGROUND
RS	ROOF SUPPORT
	STADIUM LIGHT POLE
	STORM DRAIN MANHOLE
	SIGN
PPB	SIGNAL LIGHT PUSH BUTTON
	STREET LIGHT
4" SLE	PIPE SLEEVE; DIAMETER AS SHOWN
	SLOPE
SLPB	STREET LIGHT PULLBOX
4"SLV	PIPE SLEEVE; DIAMETER AS SHOWN
S	SEWER MANHOLE
SP	SERVICE POLE
SPB	SIGNAL PULLBOX
	SPRINKLER
4"SPO	STEEL POST; DIAMETER AS SHOWN
12"SS	SAND SEPARATOR; SIZE AS NOTED
24"STP	STAND PIPE; DIAMETER AS NOTED
12"STUMP	TREE STUMP; DIAMETER AS SHOWN
MW	SURVEY MONUMENT WELL
4"TEL	TELEPHONE; DIAMETER AS SHOWN
T	TELEPHONE MANHOLE
TN	TENNIS NET POLE
TP	TELEPHONE POLE
TPB	TELEPHONE PULLBOX
TVPB	TELEVISION PULLBOX
	TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN
	PALM TREE; SPREAD SHOWN GRAPHICALLY
TSB	TELEPHONE SPLICE BOX
	TRAFFIC SIGNAL POLE
TSPB	TRAFFIC SIGNAL PULLBOX
UP	UTILITY POLE
VB	VACUUM BREAKER
VN	VOLLEYBALL NET POST
2"VP	VENT PIPE; DIAMETER AS SHOWN
WELL	WELL
W	WATER METER
WP	WELL PUMP
6"WPO	CIRCULAR WOOD POST; DIAMETER AS SHOWN
4"XWPO	SQUARE WOOD POST; SIZE AS SHOWN
4"W	WATER LINE; DIAMETER AS SHOWN
WV	WATER VALVE
	ASPHALT PAVEMENT
	CONCRETE BLOCK WALL
	BUILDING
	CONCRETE
	DETECTABLE WARNINGS
	DG OR GRAVEL
	CHAIN LINK FENCE
	CHAIN LINK ROLL GATE
	EDGE OF ASPHALT PAVEMENT
	WOOD FENCE
	DIRECTION OF FLOW
E	UNDERGROUND ELECTRIC
G 6"	GAS LINE; SIZE AS NOTED
OT	OVERHEAD TELEPHONE
SD 18"	STORM DRAIN LINE; SIZE AS NOTED
S 12"	SEWER LINE; SIZE AS NOTED
T	UNDERGROUND TELEPHONE
W 6"	WATER LINE; SIZE AS NOTED
AG 12"	AGRICULTURAL IRRIGATION LINE; SIZE AS NOTED
A 1"	AIR LINE; SIZE AS NOTED
C	COMMUNICATION LINE
352	MAJOR GRADE CONTOUR LINE
345	MINOR GRADE CONTOUR LINE
CW 2"	CHILLED WATER LINE; SIZE AS NOTED
CWR 2"	CHILLED WATER RETURN LINE; SIZE AS NOTED
CWS 2"	CHILLED WATER SUPPLY LINE; SIZE AS NOTED
	LIMIT OF DIRT
	LIMIT OF TURF
DL 1"	DRAIN LINE; SIZE AS NOTED
EMS	EMERGENCY MANAGEMENT SYSTEM
FA	FIRE ALARM LINE
F 8"	FIRE LINE; SIZE AS NOTED
FO	FIBER OPTIC LINE
	DRAIN TUBE
HW 2"	HOT WATER LINE; SIZE AS NOTED
HWR 2"	HOT WATER RETURN LINE; SIZE AS NOTED
HWS 2"	HOT WATER SUPPLY LINE; SIZE AS NOTED
HYD	HYDRAULIC LINE
ID 18"	IRRIGATION DISTRICT; SIZE AS NOTED
	IRON FENCE
IRR 2"	IRRIGATION MAIN LINE; SIZE AS NOTED
L 1"	IRRIGATION LATERAL LINE; SIZE AS NOTED
ITS	INTELLIGENT TRAFFIC SYSTEM
JT	JOINTLY TRENCHED UTILITIES
OC	OVERHEAD COMMUNICATIONS LINE
OE	OVERHEAD ELECTRIC LINE
OEC	OVERHEAD ELECTRIC AND COMMUNICATION LINE
OET	OVERHEAD ELECTRIC AND TELEPHONE LINE
OETV	OVERHEAD ELECTRIC AND TELEVISION LINE
OETVT	OVERHEAD ELECTRIC, TELEVISION AND TELEPHONE LINE
OTS	OVERHEAD TRAFFIC SIGNAL LINE
OTV	OVERHEAD TELEVISION LINE
OU	OVERHEAD UTILITY LINE
P 6"	PETROLEUM LINE; SIZE AS NOTED
RW 3"	RECYCLED WATER IRRIGATION LINE; SIZE AS NOTED
S&SD 8"	SEWER AND STORM DRAIN LINE; SIZE AS NOTED
SFM 6"	SEWER FORCE MAIN; SIZE AS NOTED
ST 2"	STEAM LINE; SIZE AS NOTED
TFO	TRAFFIC FIBER OPTIC LINE
TS	TRAFFIC SIGNAL LINE
TV	TELEVISION LINE
UNK	UNKNOWN UTILITY LINE
	WIRE FENCE
	PROPERTY LINE
	CITY LIMIT
	EASEMENT 1
	EASEMENT 2
	RIGHT-OF-WAY LINE
	RIGHT-OF-WAY CENTER LINE
	SETBACK LINE

PLOT DATE: 2/18/2025 9:16:54 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
JOHN D. KOEHLER
No. 87218
CIVIL
STATE OF CALIFORNIA

01-15-25
Date Signed:

TETER, LLP
FRESNO HEADQUARTERS
VISALIA I BAKERSFIELD I MODESTO I SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

Blair, Church & Flynn
CONSULTING ENGINEERS
481 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

DRAWING TITLE
TOPOGRAPHIC SURVEY LEGEND

PROJECT NO.
21-12259

DRAWING
C100

Drawing: P:\1214-02\09 Site Construction\xrefs\1214209sd1.dwg; Topographic Survey Legend - ----
Date: 2/18/2025 9:16:54 AM By: wendyg

SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MAY 21, 2021 AND MAY 31, 2024.*

2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SITE BENCHMARK:

CHISELED "X" APPROXIMATELY 18'± NORTHWEST OF OF THE NORTHWESTERN MOST CORNER OF BUILDING 300B ELEV.= 159.60

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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DRAWING TITLE
TOPOGRAPHIC SURVEY

PROJECT NO.
21-12259

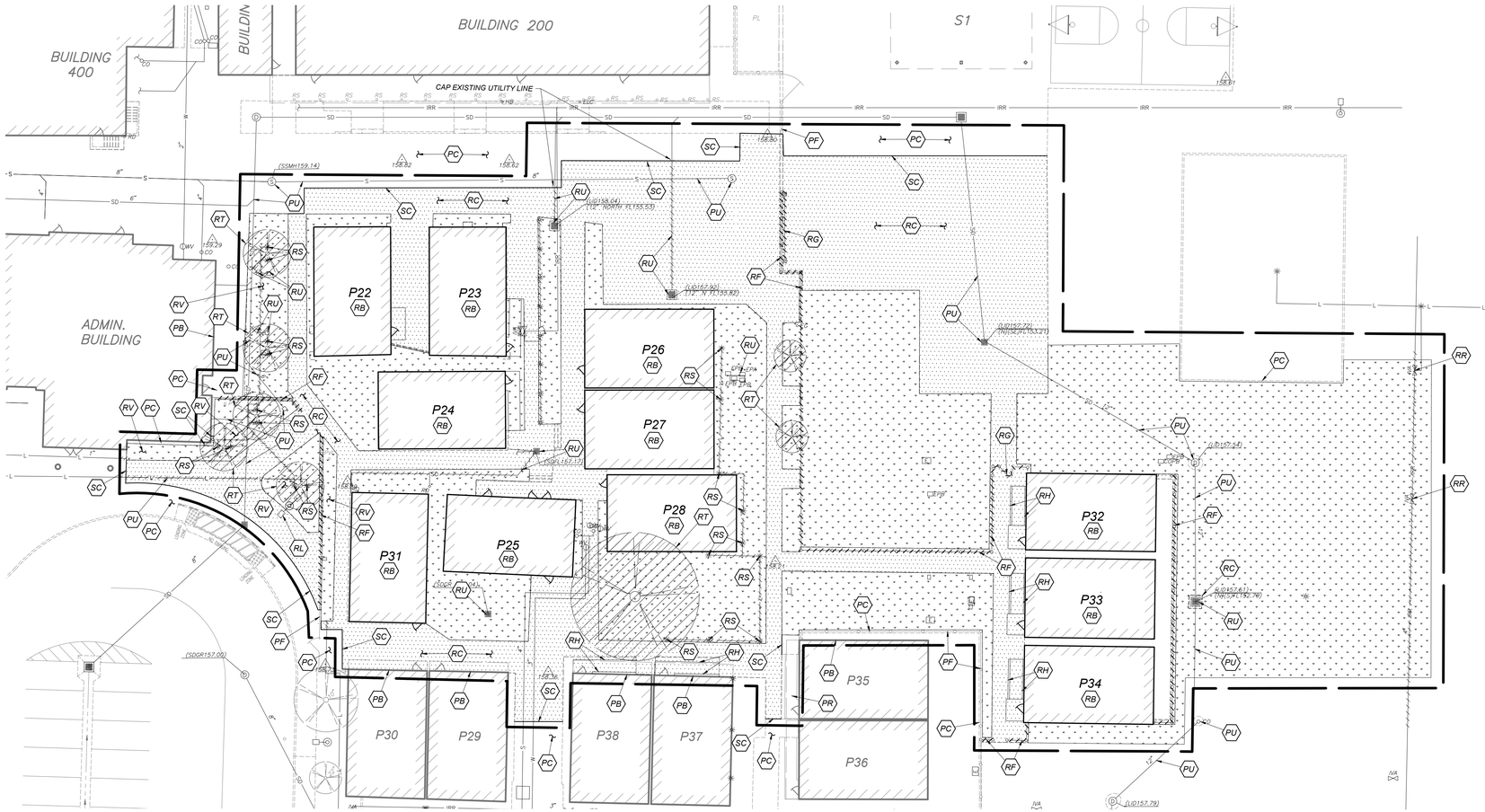
DRAWING
C101

SCALE: N 1"=20'
0 5 20 40
SCALE IN FEET

Blair, Church & Flynn
CONSULTING ENGINEERS
462 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

PLOT DATE: 2/18/2025 9:17:07 AM

Drawing: P:\1.21-12259\1.0\a\1.product\construction\drawings\1.21-12259dsd1.dwg, Topographic Survey — ~~~~
Plot By: wongjeff Log No. 12259 — 8:1 Plot



DEMOLITION LEGEND:

- *REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1*
- *LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH*
- *LIMITS OF CONCRETE IMPROVEMENT REMOVAL*
- PB — *PROTECT BUILDING TO REMAIN*
- PC — *PROTECT CONCRETE IMPROVEMENTS TO REMAIN*
- PF — *PROTECT FENCE TO REMAIN*
- PR — *PROTECT METAL RAMP AND HANDRAILS TO REMAIN*
- PU — *PROTECT UTILITY TO REMAIN*
- RB — *REMOVE BUILDING*
- RC — *REMOVE CONCRETE IMPROVEMENTS*
- RF — *REMOVE CHAIN LINK FENCE*
- RG — *REMOVE GATE*
- RH — *REMOVE HANDRAIL*
- RL — *REMOVE AND SALVAGE LIGHT POLE FOR REINSTALLATION, SEE ELECTRICAL*
- RR — *REMOVE AND SALVAGE IRRIGATION VALVE. SEE IRRIGATION PLAN FOR RELOCATION.*
- RS — *REMOVE AND SALVAGE IRRIGATION UTILITY. RETURN TO DISTRICT.*
- RT — *REMOVE TREE TO A MINIMUM DEPTH OF 3' OR TO THE BOTTOM OF THE ROOT BALL, WHICHEVER IS DEEPER*
- RU — *REMOVE UTILITY*
- RV — *REMOVE AND SALVAGE EXISTING SHRUBS, INSTALLED IN PHASE 2 SCOPE. RETURN TO DISTRICT.*
- SC — *SAWCUT*
- *LIMIT OF CHAIN LINK FENCE REMOVAL*
- *LIMIT OF IRRIGATION LATERAL LINE REMOVAL/ ABANDONMENT*
- *LIMIT OF IRRIGATION MAIN LINE REMOVAL*
- *LIMIT OF STORM DRAIN LINE REMOVAL*

GENERAL DEMOLITION NOTES:

1. *THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.*
2. *CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.*
3. *CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.*
4. *THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.*
5. *CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.*
6. *ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.*
7. *CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.*
8. *ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.*
9. *REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.*
   a) *FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.*
   b) *FOR ASPHALTIC PAVEMENT REMOVAL. SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.*
10. *REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.*
11. *COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.*

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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FRESNO HEADQUARTERS
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ARCHITECTS ENGINEERS CONNECTED
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

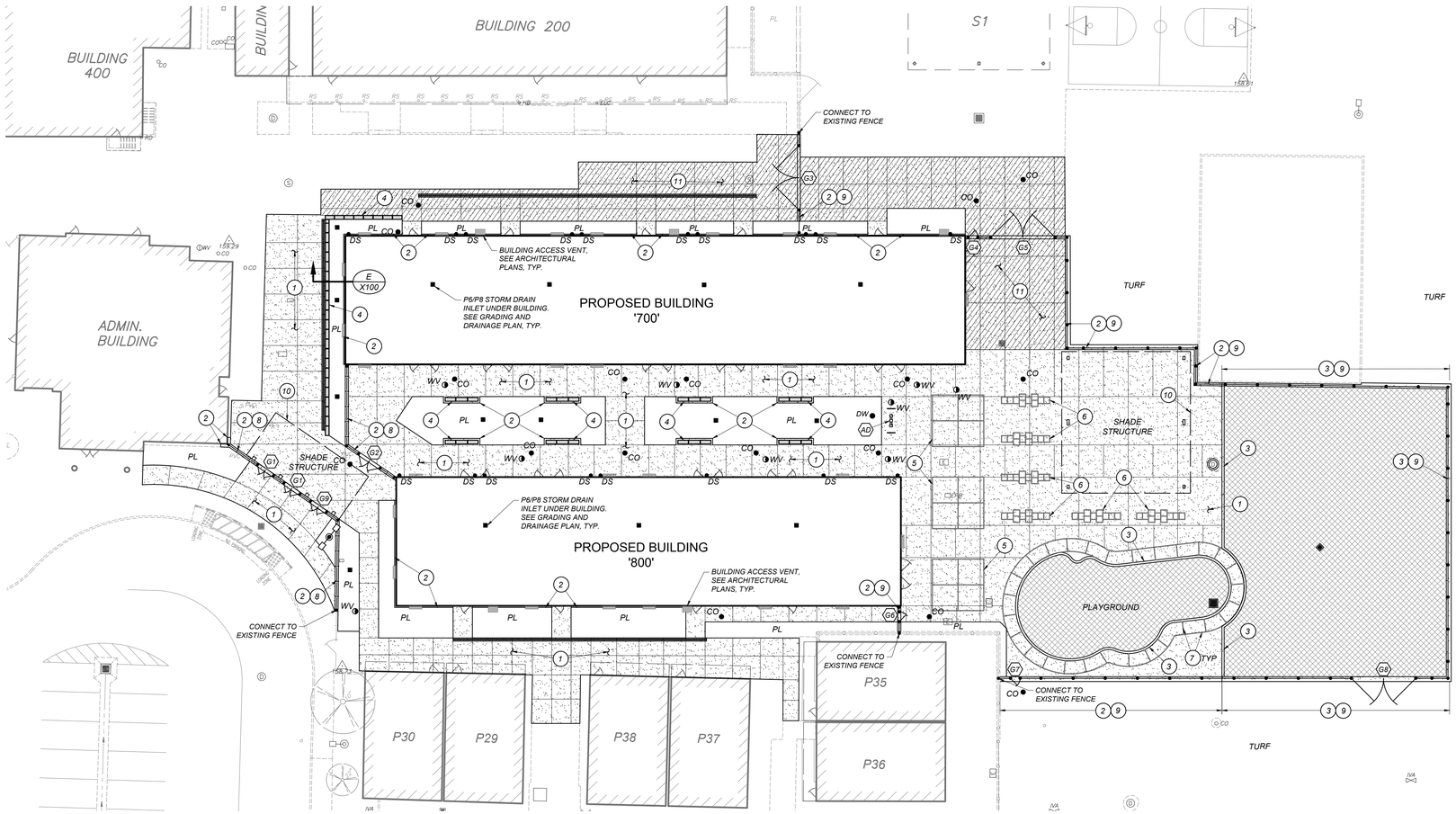
DRAWING TITLE
DEMOLITION PLAN

PROJECT NO.
21-12259

DRAWING
C201

Drawing: P:\21-12259\10-Site\construction\drawings\21-12259dwg01.dwg, Demo — 8/7/2019
Plot by: ccrodgers Log No. 2025 — By Date

PLOT DATE: 2/18/2025 9:17:19 AM



SITE LEGEND:

- DETAIL DESIGNATION / DETAIL REFERENCE / SHEET LOCATION
- [A/X101] [DETAIL DESIGNATION / SHEET LOCATION]
- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS
- LIMITS OF SYNTHETIC TURF SURFACING [G/X100]
- CHAIN LINK FENCE
- DECORATIVE METAL FENCE
- NEW GATES, SEE HORIZONTAL CONTROL PLAN FOR WIDTH. HEIGHT TO MATCH ADJACENT FENCE
- LIGHT POLE, SEE ELECTRICAL
- PL — PLANTING AREA; SEE PLANTING PLANS
- CO — SEWER CLEANOUT SEE UTILITY PLANS
- DS — DOWNSPOUT; SEE PLUMBING PLANS
- DW — DRY WELL; SEE UTILITY PLANS
- WV — WATER VALVE; SEE UTILITY PLANS
- AD — ACCESSIBLE DRINKING FOUNTAIN AND BOTTLE FILLING STATION PER [A/X201]
- 1 — STANDARD DUTY CONCRETE IMPROVEMENTS PER [A/X100]
- 2 — CONCRETE MOWSTRIP PER [C/X100]
- 3 — CONCRETE HEADER PER [F/X100]
- 4 — CONCRETE SEAT WALL PER [D/X100]
- 5 — PAINT FOURSQUARE COURT PER [I/X100]
- 6 — PAINT HOPSCOTCH COURT PER [H/X100]
- 7 — PAINT 2" WIDE ORANGE LINES
- 8 — 6' HIGH DECORATIVE METAL FENCE PER [A/X301]
- 9 — 6' HIGH CHAIN LINK FENCE PER [A/X300]
- 10 — SHADE STRUCTURE, SEE ARCHITECTURAL
- 11 — HEAVY DUTY CONCRETE IMPROVEMENTS PER [A/X100]

GATE SCHEDULE:

GATE ID	GATE WIDTH	GATE FUNCTION	PUBLIC ACCESS	FIRE ACCESS	COMMENTS
G1	6'	DECORATIVE METAL DOUBLE LEAF SWING GATE	ACCESSIBLE GATE HARDWARE PER [B/X301]	N/A	SEE DETAIL [A/X301]
G2	8'	DECORATIVE METAL DOUBLE LEAF SWING GATE	ACCESSIBLE GATE HARDWARE PER [B/X301]	N/A	SEE DETAIL [A/X301]
G3	20'	CHAIN LINK DOUBLE LEAF SWING GATE	N/A	KNOX BOX WELDED TO GATE POST	SEE DETAIL [A/X300]
G4	3'	CHAIN LINK PEDESTRIAN ACCESSIBLE WALK GATE	ACCESSIBLE GATE HARDWARE PER [C/X300]	N/A	SEE DETAIL [A/X300]
G5	20'	CHAIN LINK DOUBLE LEAF SWING GATE	N/A	KNOX BOX WELDED TO GATE POST	SEE DETAIL [A/X300]
G6	3'	CHAIN LINK PEDESTRIAN ACCESSIBLE WALK GATE	ACCESSIBLE GATE HARDWARE PER [C/X300]	N/A	SEE DETAIL [A/X300]
G7	3'	CHAIN LINK MAINTENANCE GATE	N/A	N/A	SEE DETAIL [A/X300]
G8	20'	CHAIN LINK DOUBLE LEAF SWING GATE	N/A	N/A	SEE DETAIL [A/X300]
G9	6'	DECORATIVE METAL DOUBLE LEAF SWING GATE	ACCESSIBLE GATE HARDWARE PER [B/X301]	N/A	SEE DETAIL [A/X301]

GENERAL SITE NOTES:

1. ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER [A/X100]
2. INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER [B/X100]
3. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
4. ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
5. ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
6. 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
7. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.

SCALE: 1"=20'

0 5 20 40
SCALE IN FEET

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TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

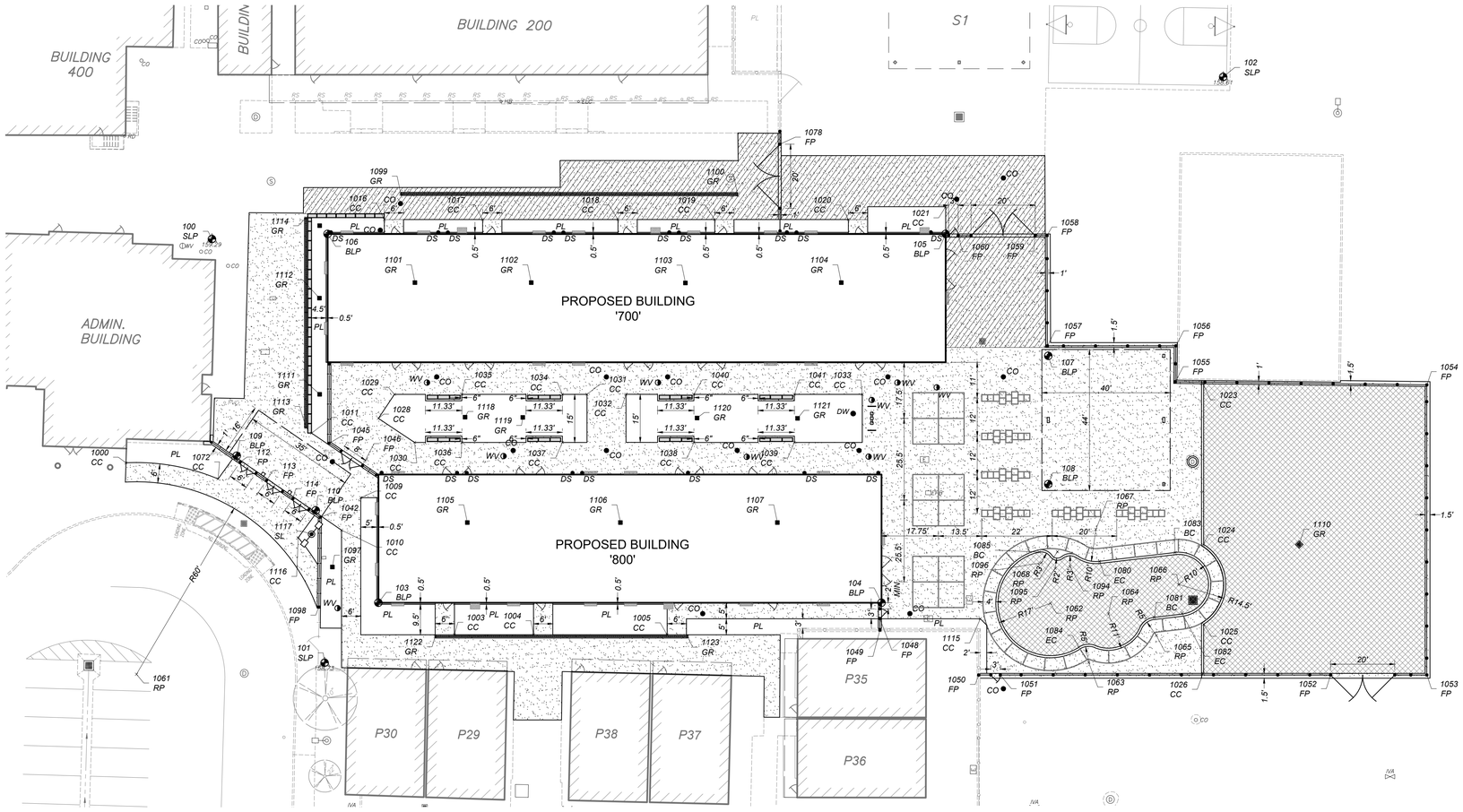
DRAWING TITLE
SITE PLAN

PROJECT NO.
21-12259

DRAWING
C301

PLOT DATE: 2/18/2025 9:17:34 AM

Drawing: P:\21-12259\CSA\Landscape\merge\21224259x01.dwg, site plan — BCT.CTB
Plot by: scottgard Feb 18, 2025 - 9:17am



HORIZONTAL CONTROL LEGEND:

100 LCP		LAYOUT COORDINATE POINT
100 SLP		SITE LAYOUT POINT
100 BLP		BUILDING LAYOUT POINT
BC		BEGIN CURVE
CC		CORNER CONCRETE
EC		END CURVE
FP		FENCE POST
GR		DRAIN INLET GRATE
MS		MOWSTRIP
RP		RADIUS POINT
SL		SITE LIGHT POLE

GENERAL HORIZONTAL CONTROL NOTES:

1. ALIGNMENT OF THE SITE LAYOUT GRID IS BASED ON AN ASSUMED COORDINATE SYSTEM.
2. SITE LAYOUT POINT 100 IS CHISELED X LOCATED IN CONCRETE WALK APPROXIMATELY 6'± NORTH OF THE NORTHEAST CORNER OF THE ADMIN. BUILDING.
3. SITE LAYOUT POINT 101 IS NAIL AND TIN LOCATED IN CONCRETE WALK APPROXIMATELY 25'± SOUTHWEST OF THE SOUTHWEST CORNER OF BUILDING 800
4. SITE LAYOUT POINT 102 IS NAIL AND TIN LOCATED IN ASPHALT ON THE SOUTHEAST CORNER OF THE BASKETBALL COURTS
5. DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, COLUMNS OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.

NORTHING EASTING TABLE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1941605.03	6549914.41	SLP	SITE LAYOUT POINT
101	1941473.44	6549951.56	SLP	SITE LAYOUT POINT
102	1941660.42	6550228.87	SLP	SITE LAYOUT POINT
103	1941492.42	6549968.05	BLP	BUILDING LAYOUT POINT
104	1941494.84	6550124.86	BLP	BUILDING LAYOUT POINT
105	1941610.13	6550143.08	BLP	BUILDING LAYOUT POINT
106	1941607.16	6549950.44	BLP	BUILDING LAYOUT POINT
107	1941572.63	6550175.67	BLP	BUILDING LAYOUT POINT
108	1941532.64	6550176.28	BLP	BUILDING LAYOUT POINT
109	1941537.55	6549923.18	BLP	BUILDING LAYOUT POINT
110	1941520.88	6549948.11	BLP	BUILDING LAYOUT POINT
112	1941535.60	6549924.26	FP	FENCE POST
113	1941530.05	6549932.57	FP	FENCE POST
114	1941524.49	6549940.89	FP	FENCE POST
1000	1941534.82	6549888.66	CC	CORNER CONCRETE
1003	1941482.79	6549991.86	CC	CORNER CONCRETE
1004	1941483.17	6550016.53	CC	CORNER CONCRETE
1005	1941483.81	6550058.19	CC	CORNER CONCRETE
1009	1941525.09	6549962.04	CC	CORNER CONCRETE
1010	1941514.87	6549956.20	CC	CORNER CONCRETE
1011	1941544.97	6549946.40	CC	CORNER CONCRETE
1016	1941611.94	6549968.03	CC	CORNER CONCRETE
1017	1941612.41	6549998.70	CC	CORNER CONCRETE
1018	1941613.06	6550040.86	CC	CORNER CONCRETE
1019	1941613.52	6550071.02	CC	CORNER CONCRETE
1020	1941614.16	6550112.68	CC	CORNER CONCRETE
1021	1941618.63	6550142.95	CC	CORNER CONCRETE
1023	1941564.70	6550224.07	CC	CORNER CONCRETE
1024	1941514.43	6550224.84	CC	CORNER CONCRETE
1025	1941489.67	6550225.40	CC	CORNER CONCRETE
1026	1941474.36	6550225.46	CC	CORNER CONCRETE
1028	1941549.92	6549967.16	CC	CORNER CONCRETE
1029	1941557.49	6549972.04	CC	CORNER CONCRETE
1030	1941542.59	6549978.52	CC	CORNER CONCRETE
1031	1941558.42	6550032.04	CC	CORNER CONCRETE
1032	1941558.61	6550044.20	CC	CORNER CONCRETE
1033	1941559.74	6550117.86	CC	CORNER CONCRETE
1034	1941558.30	6550024.37	CC	CORNER CONCRETE
1035	1941557.82	6549993.04	CC	CORNER CONCRETE
1036	1941542.82	6549993.27	CC	CORNER CONCRETE
1037	1941543.30	6550024.60	CC	CORNER CONCRETE
1038	1941543.93	6550065.59	CC	CORNER CONCRETE
1039	1941544.41	6550096.92	CC	CORNER CONCRETE
1040	1941558.93	6550065.36	CC	CORNER CONCRETE
1041	1941559.41	6550096.70	CC	CORNER CONCRETE
1042	1941518.75	6549949.47	FP	FENCE POST
1045	1941541.94	6549951.94	FP	FENCE POST
1046	1941535.12	6549962.38	FP	FENCE POST
1048	1941489.93	6550124.41	FP	FENCE POST
1049	1941486.32	6550124.49	FP	FENCE POST
1050	1941472.78	6550155.50	FP	FENCE POST
1051	1941472.88	6550162.25	FP	FENCE POST
1052	1941474.47	6550265.23	FP	FENCE POST
1053	1941474.93	6550295.23	FP	FENCE POST
1054	1941565.41	6550293.84	FP	FENCE POST
1055	1941565.17	6550215.42	FP	FENCE POST
1056	1941576.35	6550215.41	FP	FENCE POST
1057	1941575.73	6550175.35	FP	FENCE POST
1058	1941610.12	6550174.74	FP	FENCE POST
1059	1941610.06	6550171.04	FP	FENCE POST
1060	1941609.69	6550147.04	FP	FENCE POST
1061	1941468.95	6549892.96	RP	RADIUS POINT
1062	1941495.49	6550177.53	RP	RADIUS POINT
1063	1941477.18	6550189.73	RP	RADIUS POINT
1064	1941492.45	6550195.65	RP	RADIUS POINT
1065	1941485.96	6550210.69	RP	RADIUS POINT
1066	1941501.98	6550217.42	RP	RADIUS POINT
1067	1941518.72	6550191.33	RP	RADIUS POINT
1068	1941511.59	6550179.46	RP	RADIUS POINT
1072	1941530.25	6549917.44	CC	CORNER CONCRETE
1078	1941637.33	6550091.02	FP	FENCE POST
1080	1941508.81	6550192.63	EC	END CURVE
1081	1941491.59	6550209.95	BC	BEGIN CURVE
1082	1941493.06	6550218.59	EC	END CURVE
1083	1941511.89	6550216.12	BC	BEGIN CURVE
1084	1941481.90	6550186.59	EC	END CURVE
1085	1941511.39	6550173.76	BC	BEGIN CURVE
1094	1941507.02	6550183.45	RP	RADIUS POINT
1095	1941506.42	6550178.86	RP	RADIUS POINT
1096	1941508.07	6550174.51	RP	RADIUS POINT
1097	1941503.35	6549953.50	GR	DRAIN INLET GRATE
1098	1941490.85	6549949.47	FP	FENCE POST
1099	1941620.01	6549973.02	GR	DRAIN INLET GRATE
1100	1941621.53	6550078.00	GR	DRAIN INLET GRATE
1101	1941592.43	6549977.88	GR	DRAIN INLET GRATE
1102	1941592.99	6550014.12	GR	DRAIN INLET GRATE
1103	1941593.62	6550062.19	GR	DRAIN INLET GRATE
1104	1941594.48	6550110.78	GR	DRAIN INLET GRATE
1105	1941517.85	6549995.36	GR	DRAIN INLET GRATE
1106	1941518.58	6550043.08	GR	DRAIN INLET GRATE
1107	1941519.34	6550092.02	GR	DRAIN INLET GRATE
1110	1941515.00	6550254.80	GR	DRAIN INLET GRATE
1111	1941557.13	6549948.71	GR	DRAIN INLET GRATE
1112	1941587.13	6549948.18	GR	DRAIN INLET GRATE
1113	1941546.65	6549944.63	GR	DRAIN INLET GRATE
1114	1941612.14	6549943.62	GR	DRAIN INLET GRATE
1115	1941490.31	6550155.72	CC	CORNER CONCRETE
1116	1941512.31	6549942.73	CC	CORNER CONCRETE
1117	1941513.47	6549946.88	SL	SITE LIGHT POLE
1118	1941550.70	6549994.15	GR	DRAIN INLET GRATE
1119	1941550.91	6550012.15	GR	DRAIN INLET GRATE
1120	1941551.55	6550066.48	GR	DRAIN INLET GRATE
1121	1941551.93	6550097.81	GR	DRAIN INLET GRATE
1122	1941482.20	6549985.87	GR	DRAIN INLET GRATE
1123	1941483.41	6550064.61	GR	DRAIN INLET GRATE

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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REGISTERED PROFESSIONAL ENGINEER
KEVIN D. KLOTZ
No. 87218
CIVIL
STATE OF CALIFORNIA
01-15-25
Date Signed:

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VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

DRAWING TITLE
HORIZONTAL CONTROL PLAN

PROJECT NO.
21-12259

DRAWING
C401

PLOT DATE: 2/18/2025 9:17:52 AM

Drawings: A1.1.24 - 102015 (Site) (construction drawings) (.24x36ANSI1).dwg, HC - BW
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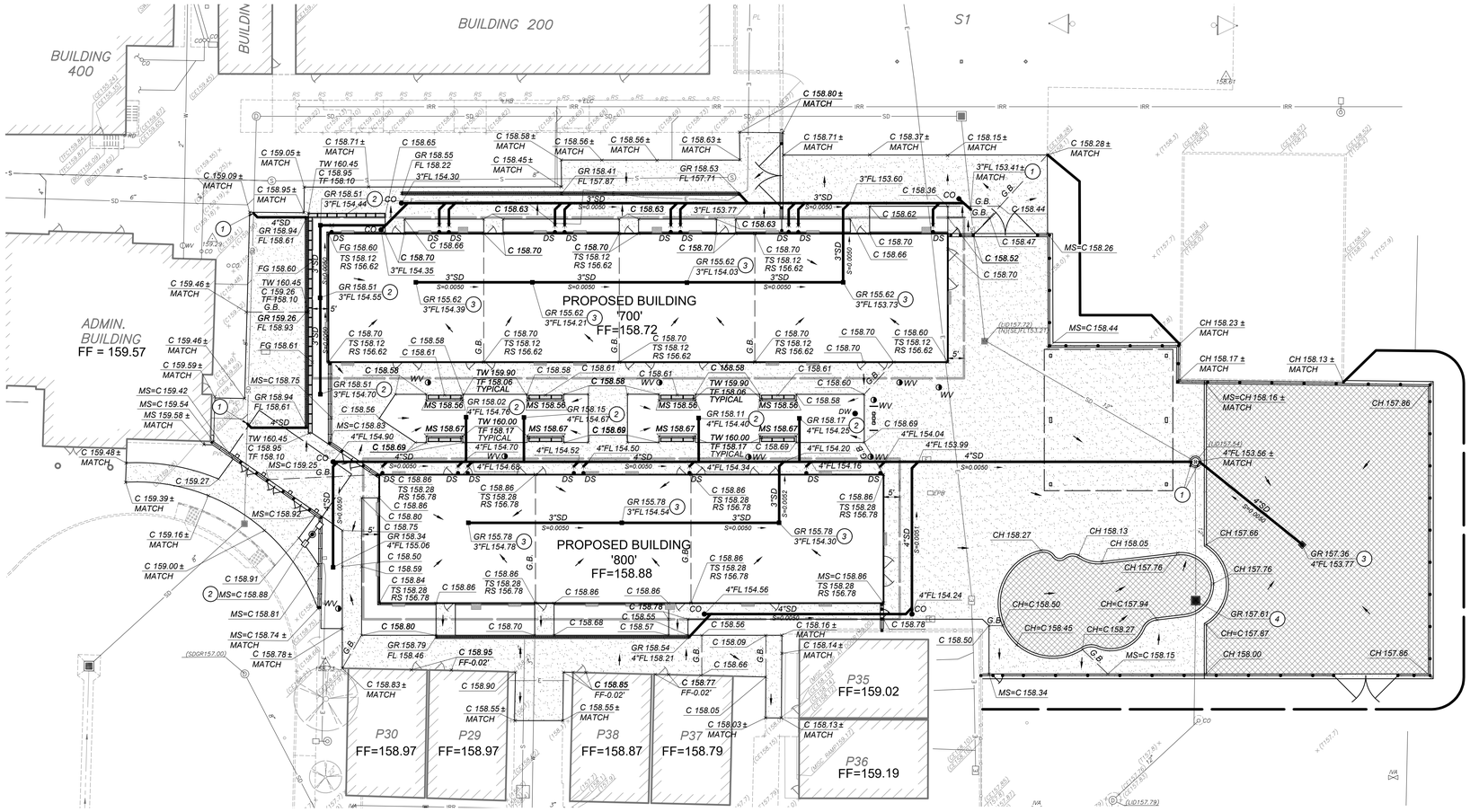

GRADING AND DRAINAGE LEGEND:

FG	FINISHED GRADE
FL	FLOWLINE
C	CONCRETE
GR	STORM DRAIN GRATE
MS	MOWSTRIP
RS	RAT SLAB
SW	SWALE
TF	TOP OF FOOTING
TS	TOP OF STEM WALL
TW	TOP OF WALL
328.78	NEW FINISHED GRADE
	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
	SWALE
	LIMITS OF GRADING
	BUILDING OVER-EXCAVATION LIMITS; SEE [D/X200]
	TRENCH DRAIN PER [C/X201]
6"SD	SDR-35, PVC STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER [E/X200]
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF FLOW
●CO	SURFACE CLEANOUT PER [C/X200]
●DS	DOWNSPOUT; SEE PLUMBING PLANS
1	CONNECT TO EXISTING STORM DRAIN LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
2	P6/P8 STORM DRAIN INLET PER [G/X200]
3	V12 STORM DRAIN INLET PER [B/X201]
4	ADJUST GRATE TO BE FLUSH WITH AGGREGATE BASE LAYER OF SYNTHETIC TURF PER [E/X201] AND [F/X200]

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   - *a) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   - *b) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   - *c) RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   - *d) ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   - *e) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   - *f) LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   - *g) GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE STATE WATER RESOURCES CONTROL BOARD'S CONSTRUCTION GENERAL PERMIT. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.*
9. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
10. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER [F/X200]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
11. *WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.*
12. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS*

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

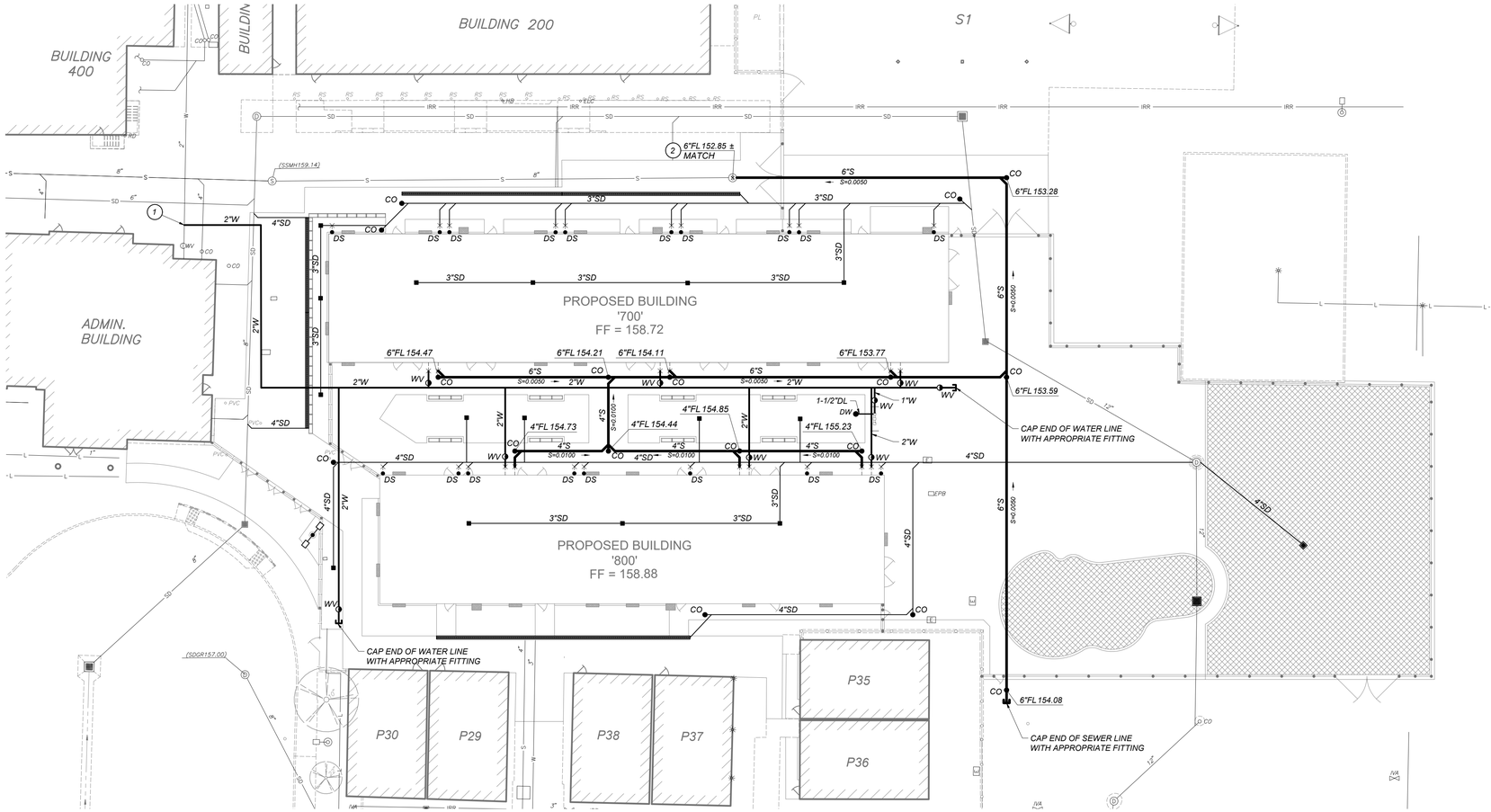
DRAWING TITLE
GRADING AND DRAINAGE PLAN

PROJECT NO.
21-12259

DRAWING
C501

Drawing: P:\21-12259\Site\productionDrawings\21-12259grd01.dwg, pre — BCF.CTB
Plotted by: ccrodgers Feb 18, 2025 - 9:18am

PLOT DATE: 2/18/2025 9:18:05 AM



UTILITY LEGEND:

6"S	SEWER MAIN, SIZE AS NOTED ON PLANS. PIPE BEDDING AND BACKFILL PER [E/X200]
2"W	WATER MAIN, SIZE AS NOTED ON PLANS, MIN. 30" COVER. THRUST BLOCKS PER [A/X200]. PIPE BEDDING AND BACKFILL PER [E/X200]
6"SD	STORM DRAIN PIPE, SEE GRADING PLAN
1-1/2"DL	SCHEDULE 40 PVC DRAIN LINE, SIZE AS NOTED
FF	FINISHED FLOOR
FL	FLOWLINE
CO	SEWER CLEANOUT PER [C/X200]
DS	DOWNSPOUT; SEE PLUMBING PLANS
DW	DRY WELL PER [D/X201]
WV	WATER VALVE PER [B/X200]
	CAP END OF UTILITY LINE
	POINT OF CONNECTION TO EXISTING OR PROPOSED UTILITY, COORDINATE WITH PLUMBING PLANS PRIOR TO CONNECTION.
S=0.0050	FLOWLINE SLOPE AND DIRECTION OF FLOW
(1)	CONNECT TO EXISTING WATER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
(2)	CONNECT TO EXISTING SEWER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.

GENERAL SITE UTILITY NOTES:

1. AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF LOCATIONS, SIZE AND DEPTH.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, AND TYPE OF ALL EXISTING UTILITIES AND INTERFERENCES SITUATED ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION, FABRICATION, AND INSTALLATION. THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXISTING UNDERGROUND UTILITIES AND, IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING.
3. SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION PIPE ALIGNMENT.
4. COORDINATE EXACT POINTS OF CONNECTION TO BUILDING PLUMBING AND NOTIFY THE ENGINEER OF ANY CONFLICT SO THAT ADJUSTMENTS CAN BE MADE IF NEEDED.
5. SAWCUT EXISTING CONCRETE IMPROVEMENTS AS NECESSARY TO INSTALL NEW WATER OR SEWER IMPROVEMENTS. CONSTRUCT NEW CONCRETE IMPROVEMENTS TO MATCH ADJACENT CONCRETE IMPROVEMENTS AND JOIN TOGETHER WITH DOWEL BARS PER [B/X100]
6. INSTALLATION, TYPE, AND MANUFACTURER'S MODELS OF DOMESTIC WATER METERS, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
7. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, FIXTURES, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL, ARCHITECTURAL OR ANY OTHER ELEMENTS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
8. ANY INSPECTION TO BE MADE BY THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE A MINIMUM OF 24 HOUR NOTICE.
9. PURITY TESTS ARE REQUIRED ON ALL WATER SYSTEM INSTALLATIONS. CONTRACTOR TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.
10. IF THE TOP OF THE STEM OF ANY WATER GATE VALVE IS DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE CONTRACTOR SHALL INSTALL A STEM EXTENSION SO THAT THE TOP OF THE STEM, WITH EXTENSION, SHALL BE NO DEEPER THAN 4' NOR SHALLOWER THAN 2' FROM FINISHED GRADE.
11. BACKFILL UTILITY TRENCHES PER [E/X200]
12. ADJUST EXISTING UTILITY LIDS TO FINISHED GRADE PER UTILITY COMPANY STANDARDS AND [F/X200] AND INSTALL TRAFFIC RATED LIDS WHERE LOCATED IN A TRAFFIC AREA.

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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ARCHITECTS ENGINEERS CONNECTED
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MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

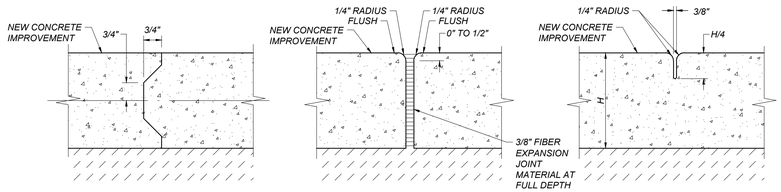
DRAWING TITLE
UTILITY PLAN

PROJECT NO.
21-12259

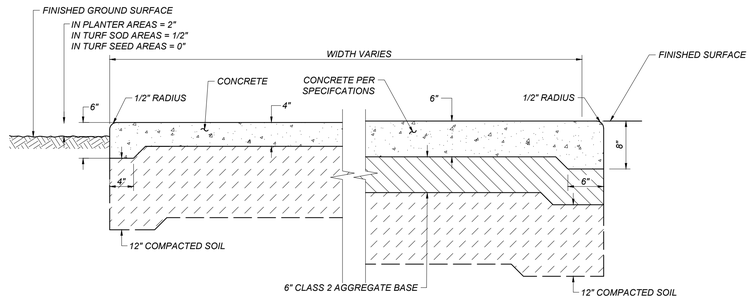
DRAWING
C601

Drawing: P:\21-22039 Site Construction\mep\21-22439-sh01.dwg, UT - BCF.CTB
Plot by: wendyg on Feb 18, 2025 - 9:18am

PLOT DATE: 2/18/2025 9:18:19 AM



CONSTRUCTION JOINT | EXPANSION JOINT | WEAKENED PLANE JOINT

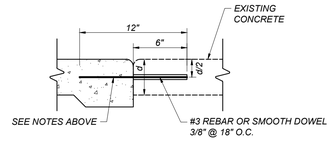


STANDARD DUTY CONCRETE | HEAVY-DUTY CONCRETE

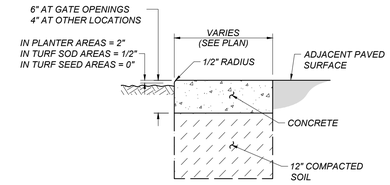
A X100 **CONCRETE WALK**
NOT TO SCALE

NOTES:

1. *DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.*
2. *CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.*
3. *FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.*
4. *WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.*
5. *WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.*

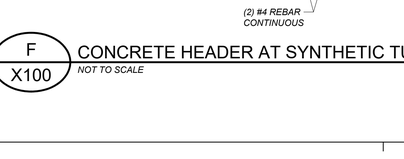


B X100 **DOWEL BAR**
NOT TO SCALE



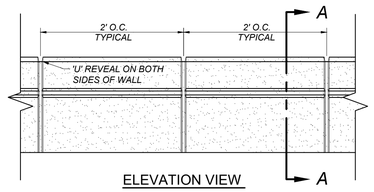
STANDARD MOWSTRIP

C X100 **CONCRETE MOWSTRIP**
NOT TO SCALE

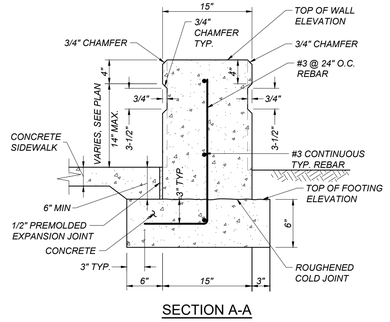


CONCRETE "U" REVEAL

CONCRETE "U" PROFILE

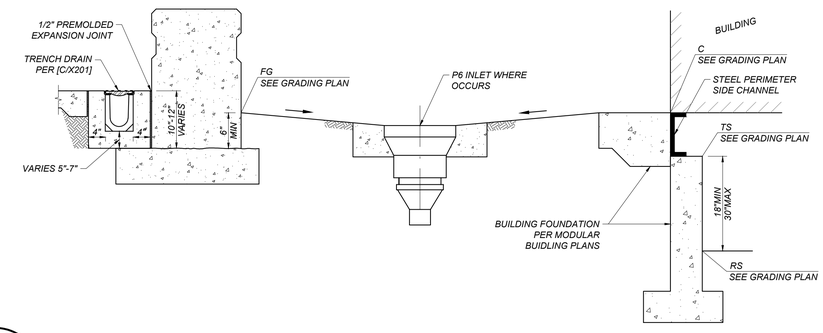


ELEVATION VIEW

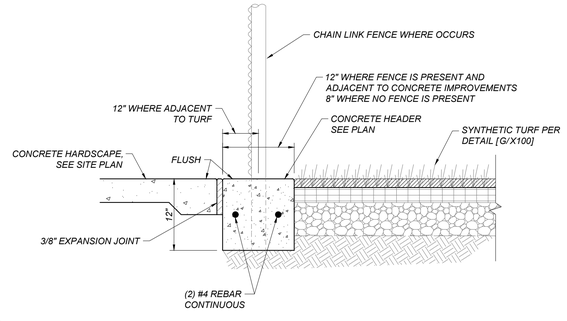


SECTION A-A

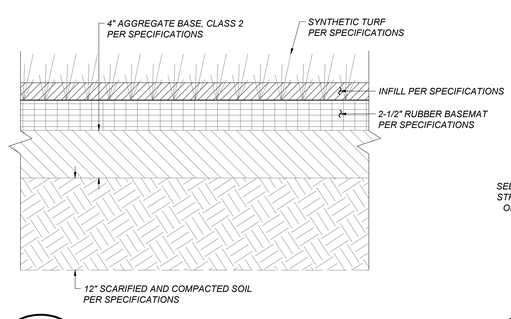
D X100 **SEATING WALL**
NOT TO SCALE



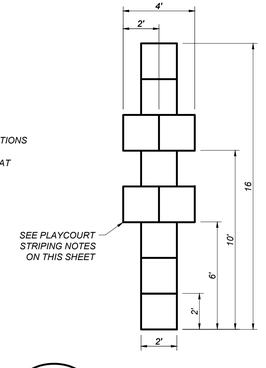
E X100 **TRENCH DRAIN AT SEATWALL**
NOT TO SCALE



F X100 **CONCRETE HEADER AT SYNTHETIC TURF**
NOT TO SCALE



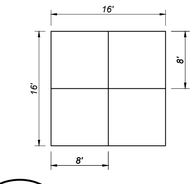
G X100 **SYNTHETIC TURF DETAIL**
NOT TO SCALE



H X100 **HOPSCOTCH**
NOT TO SCALE

GENERAL NOTES FOR PLAY COURT STRIPING:

1. *ALL COURT LINES ARE TO BE 2" IN WIDTH.*
2. *ALL GAME COURT DIMENSIONS ARE TO THE INSIDE OF COURT LINES, WITH THE EXCEPTION OF THE CENTERLINES.*
3. *CONTRACTOR IS RESPONSIBLE FOR GAME COURT LAYOUTS*
4. *ALL COURT LINES SHALL BE PAINTED ORANGE UNLESS NOTES OTHERWISE*



I X100 **FOURSQUARE**
NOT TO SCALE

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2736 Franklin Road, Merced, CA

DRAWING TITLE
SITE DETAILS

PROJECT NO.
21-12259

DRAWING
X100

Drawing: P:\21-12259\1-SDA\1production\arch\sht\21-12259_a01.dwg, Site details - BCF.CTB
Plot By: cwolfgang Plot: 18 Jan 2025 - 4:06pm

PLOT DATE: 2/18/2025 9:18:26 AM

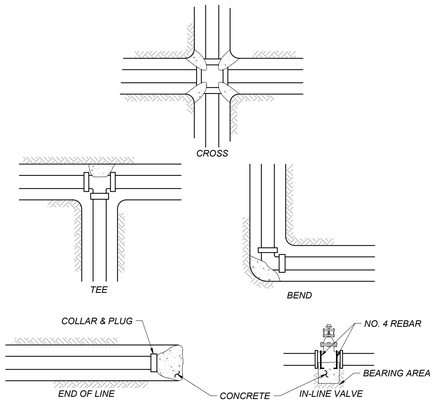
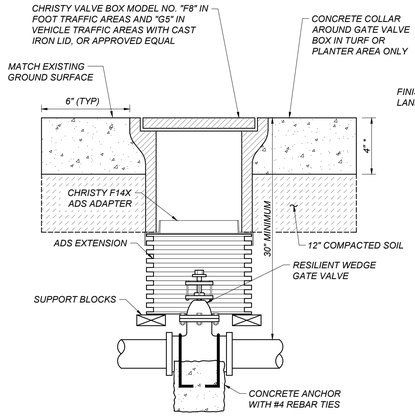
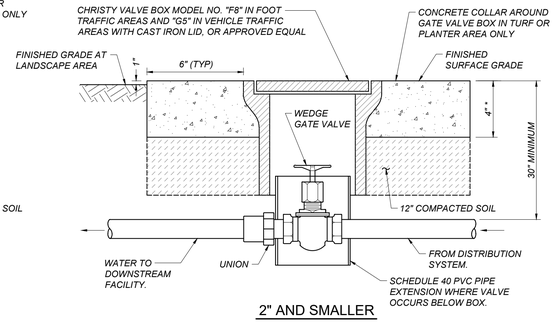


Table Of Bearing Areas Required	(In Square Feet)*				
Pipe Diameter	4" Or Smaller	6"	8"	10"	12"
Cross, Tee, 90° Bend, Plug, Hydrant, Valve	6.3	13.2	22.7	34.2	48.3
45° Bend	3.4	7.1	12.3	18.5	26.1
22 1/2° Bend	1.7	3.6	9.4	9.4	13.3
11 1/4° Bend	0.9	1.8	4.7	4.7	6.7

* TABLE CALCULATED BASED ON NFPA 24, CURRENT EDITION TABLE A.10.8.2(b), WITH 250 PSI WATER PRESSURE AND 1500 PSF SOIL BEARING PRESSURE.

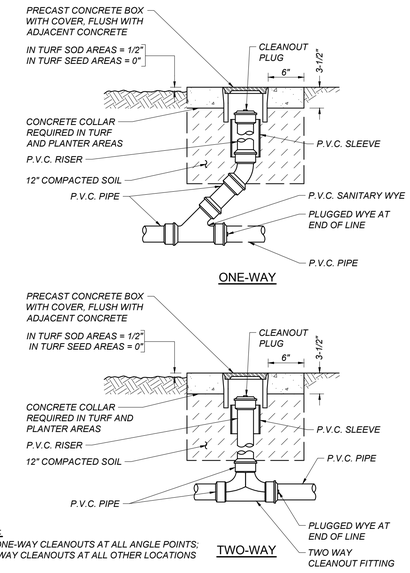
A X200 CONCRETE THRUST BLOCKS
NOT TO SCALE





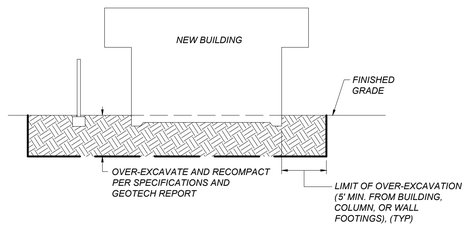
* COLLAR TO BE 6" THICK IN VEHICULAR TRAFFIC AREAS

B X200 GATE VALVE AND LID
NOT TO SCALE



NOTE:
USE ONE-WAY CLEANOUTS AT ALL ANGLE POINTS;
TWO-WAY CLEANOUTS AT ALL OTHER LOCATIONS

C X200 SURFACE CLEANOUT
NOT TO SCALE



D X200 OVER-EXCAVATION
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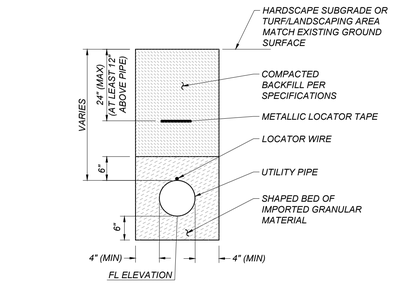
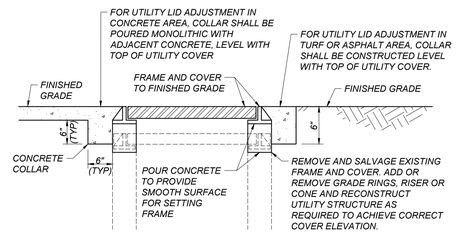
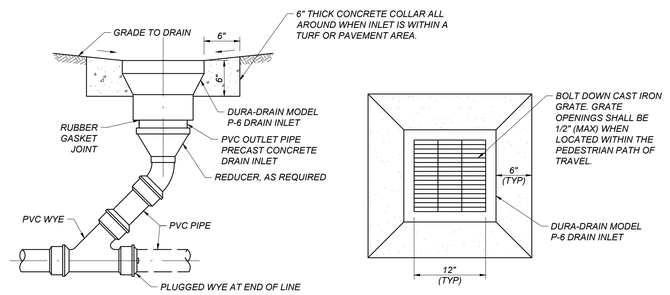


E X200 TRENCH DETAIL FOR UTILITY LINES
NOT TO SCALE



F X200 ADJUST UTILITY LID
NOT TO SCALE



G X200 P-6 DRAIN INLET
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
JOHN D. KOSTA
No. 87218
CIVIL
STATE OF CALIFORNIA
01-15-25
Date Signed:

TETER, LLP
FRESNO HEADQUARTERS
VISALIA I BAKERSFIELD I MODESTO I SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

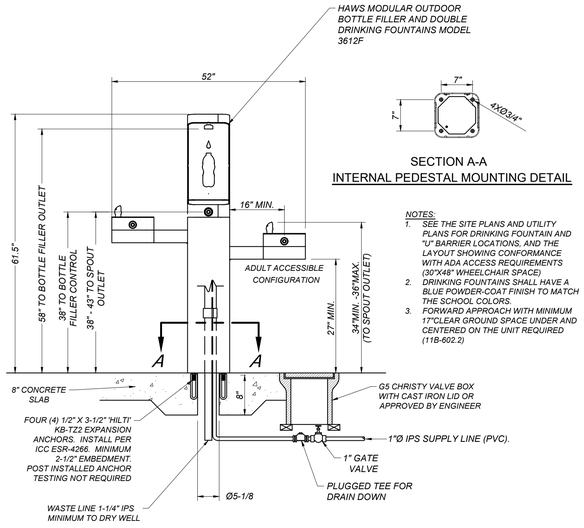
DRAWING TITLE
UTILITY DETAILS

PROJECT NO.
21-12259

DRAWING
X200

Blair, Church & Flynn
CONSULTING ENGINEERS
4621 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

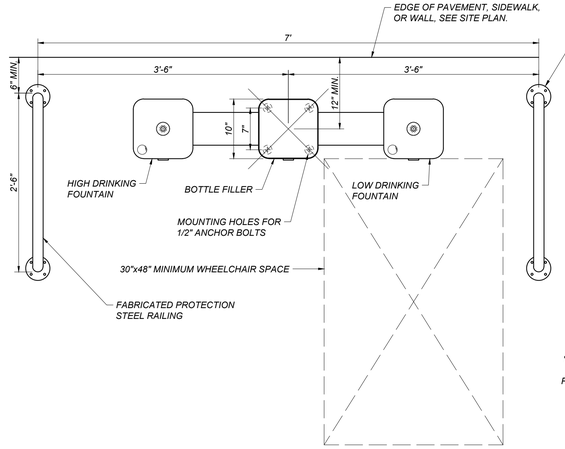
Drawing: P:\1274-12259\1.0\Architecture\mep\1274259_dt02.dwg, Utility details – BCF-LTB
Plot by: cmontgomery Feb 18, 2025 – 9:18am



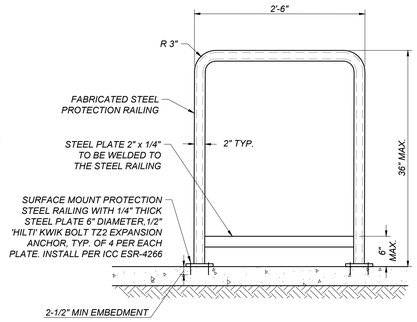
SECTION A-A
INTERNAL PEDESTAL MOUNTING DETAIL

NOTES:
1. SEE THE SITE PLANS AND UTILITY PLANS FOR DRINKING FOUNTAIN AND "LI" BARRIER LOCATIONS, AND THE LAYOUT SHOWING CONFORMANCE WITH ADA ACCESS REQUIREMENTS (30"X48" WHEELCHAIR SPACE)
2. DRINKING FOUNTAINS SHALL HAVE A BLUE POWDER-COAT FINISH TO MATCH THE SCHOOL COLORS.
3. FORWARD APPROACH WITH MINIMUM 17"CLEAR GROUND SPACE UNDER AND CENTERED ON THE UNIT REQUIRED (11B-602.2)

FRONT VIEW

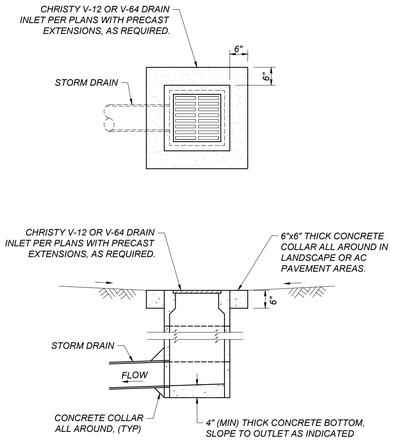


PLAN VIEW

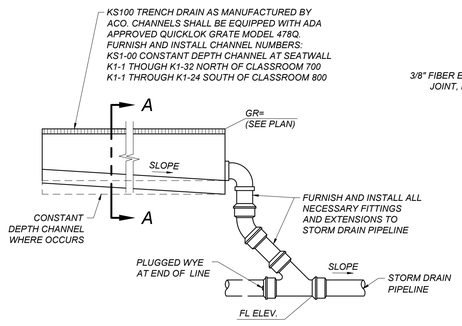


PROTECTION RALING

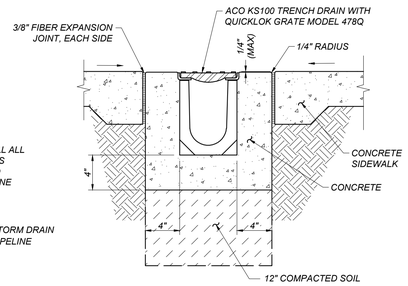
A X201 DRINKING FOUNTAIN
NOT TO SCALE



B X201 V12 DRAIN INLET WITH CONCRETE COLLAR
NOT TO SCALE

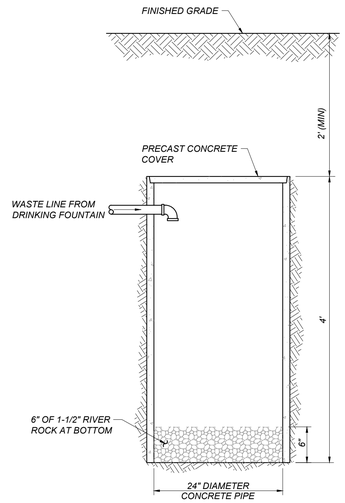


END OUTLET PROFILE

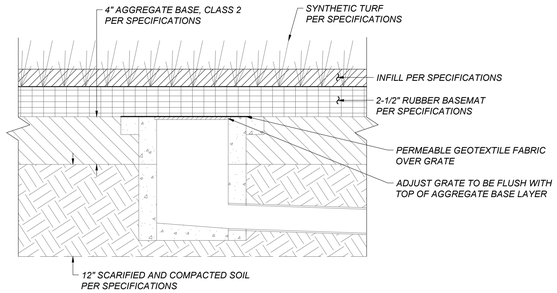


SECTION A-A

C X201 TRENCH DRAIN
NOT TO SCALE



D X201 DRY WELL
NOT TO SCALE



E X201 INLET AT SYNTHETIC TURF DETAIL
NOT TO SCALE

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DRAWING TITLE
UTILITY DETAILS

PROJECT NO.
21-12259

DRAWING
X201

Blair, Church & Flynn
CONSULTING ENGINEERS
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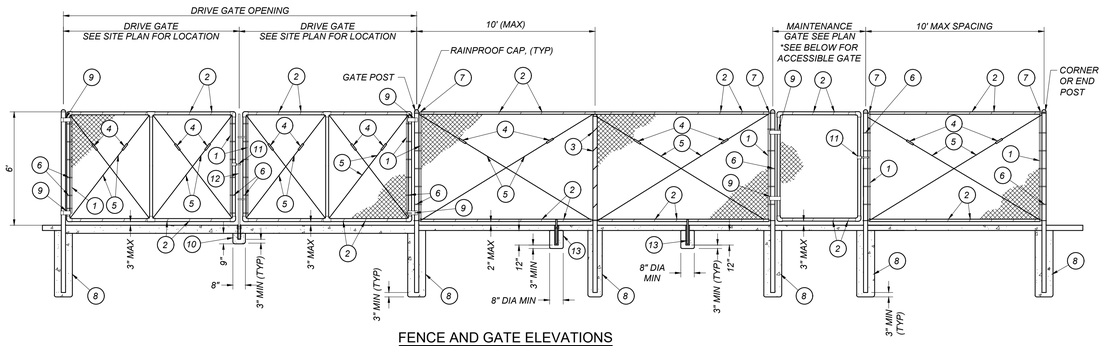
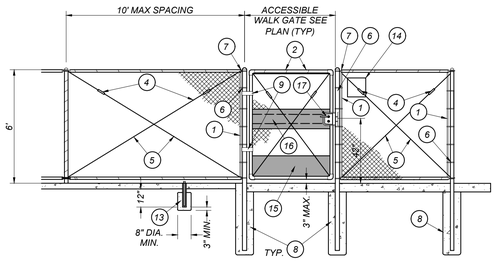
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

Drawing: P:\21-12259\CSA\Architectural\Drawings\21-12259_sht02.dwg, Utility details (2) – BCF.CTB
Plot by: cwolfgang Feb 18, 2025 – 9:18am



FENCE AND GATE ELEVATIONS



ACCESSIBLE PEDESTRIAN GATE

OPEN FABRIC CHAIN LINK FENCE AND GATE LEGEND:

1. 1/8" X 3/4" GALVANIZED STEEL STRETCHER BAR.
2. 9 GAUGE (0.148" DIA) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING. MINIMUM OF 8 TIE WIRES PER EACH 10' HORIZONTAL RAIL.
3. 6 GAUGE (0.192" DIA) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING. MINIMUM 5 POST CLIPS FOR EACH 6' POST.
4. GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIAMETER TRUSS ROD.
5. 3/8" DIAMETER GALVANIZED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS, END OR CORNER POST PANELS.
6. 1/8" THICK GALVANIZED STEEL STRETCHER BAR TENSION BAND AT 12" MAXIMUM SPACING. MINIMUM OF 5 TENSION BANDS FOR EACH 6' POST SECTION.
7. GALVANIZED RAIL ENDS.
8. CONCRETE FOOTING, TYPICAL.
9. HINGES PER THE SPECIFICATION.
10. GALVANIZED STEEL PIPE SLEEVE FOR GATE DROP ROD.
11. LOCKABLE FORK LATCH PER SPECIFICATIONS
12. CENTER GATE DROP POST AND LATCH
13. INSTALL GATE HOLDBACK FOR ALL GATES.
14. ACCESSIBLE GATE SIGN PER DETAIL [B/X300]
15. 10" HIGH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES OF THE GATE AT BOTTOM FULL WIDTH OF THE GATE. THE KICK PLATE AND WELDS SHALL BE GALVANIZED FOR CORROSION RESISTANCE.
16. 12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON THE NON FABRIC SIDE. THE FULL WIDTH OF THE GATE. THE PLATE AND WELDS SHALL BE GALVANIZED FOR CORROSION RESISTANCE. SEE DETAIL [C/X300]
17. ALL WALK GATES SHALL HAVE ADA/ CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL. GATE LATCH SHALL REQUIRE A MAXIMUM OF 5 LBS OF PRESSURE TO OPERATE. PROVIDE GATE NIGHT LATCH AND HARDWARE PER SPECIFICATIONS AT EXIT GATES.

OPEN FABRIC CHAIN LINK FENCE AND GATE NOTES:

1. GATE FRAME SHALL BE 2" O.D. GALVANIZED STEEL (2.72 LB/FT).
2. FENCE FABRIC SHALL BE 2" X 2" MESH X 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW)
3. MATCH OWNER'S LOCKSET GATE HARDWARE AND KEYING SYSTEM FOR ALL KEYED GATES.
4. WALK GATE POST SIZE LIMITED TO 6 FOOT WIDTH OR LESS. SEE DRIVE GATE SIZING FOR LARGER LEAF WIDTHS.
5. DOUBLE TRUSS RODS ARE REQUIRED IN PANELS ADJACENT TO GATE POSTS AND AT ALL FENCE CORNERS AND END PANELS.
6. ALL GATE CORNERS AND SUPPORT POINTS SHALL BE FASTENED TOGETHER AND REINFORCED WITH MALLEABLE IRON FITTINGS DESIGNED FOR THAT PURPOSE. WELDED CONNECTIONS WILL NOT BE ALLOWED.
7. TACK WELD ALL GATE HINGES AND LATCH COLLARS TO POST.
8. ALL AREAS AFFECTED BY WELDING, TRIMMED ENDS OF BOLTS, STRETCHER BARS, TRUSS RODS OR ANY EXPOSED STEEL SHALL BE PAINTED (GALVANIZED) PER CONTRACT SPECIFICATIONS.
9. CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
10. ALL ACCESSIBLE GATES SHALL HAVE:
    a. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY CBC SECTION 11B-404.2.7 OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE MAXIMUM FORCED TO ACTIVATE OPERABLE PARTS SHALL BE 5LBS PER CBC 11B-309.4.

    b. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON BOTH SIDES EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
11. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM PER CBC 11B-404.2.8.1.
12. GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO THE CLOSED POSITION IS 1.5 SECONDS MINIMUM PER CBC 11B-404.2.8.2.
13. ACCESSIBLE GATE SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES AND A MAXIMUM CLEAR OPENING OF 48 INCHES PER CBC 11B-404.2.3
14. THE MAXIMUM FORCE TO PUSH OR PULL OPEN A GATE SHALL BE 5 LBS. (11B-404.2.9)

CHAIN LINK FENCE SIZING SCHEDULE - OPEN FABRIC

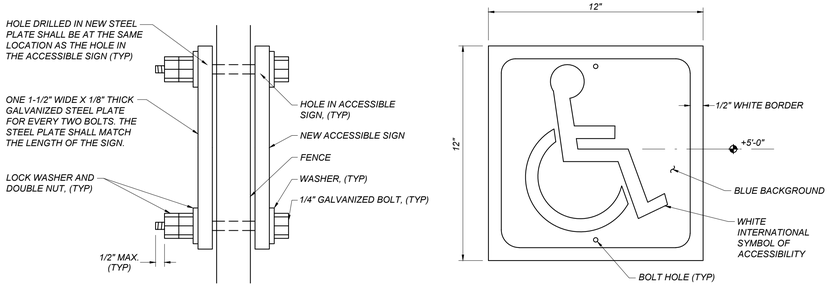
FENCE HEIGHT	END, ANGLE, CORNER POSTS			LINE POSTS			SINGLE LEAF MAN GATE POSTS (4' MAX WIDTH)			DOUBLE LEAF GATE POSTS (10' MAX WIDTH)			COMMENT
	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	
6'	2-7/8" O.D.	12"	4'-0"	2-3/8" O.D.	12"	3'-3"	2-7/8" O.D.	12"	4'-0"	6" O.D.	15"	5'-0"	1.66" O.D. TOP AND BOTTOM RAIL, SCHEDULE 40. NOT REVIEWED BY DSA

A X300 CHAIN LINK FENCE AND GATES

NOT TO SCALE

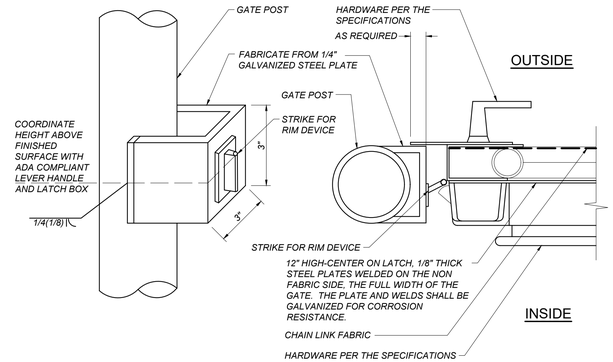
NOTES:

1. SIGN BY "STOP SIGNS AND MORE", MODEL SKU:PAR-1124 WITH WEATHER AND GRAFFITI PROTECTION OR APPROVED EQUAL.
2. BACKING PLATE 12"x12"x16 GAUGE METAL PLATE, SANDWICH CHAIN LINK FABRIC BETWEEN SIGN AND BACKING PLATE. FASTEN TOGETHER WITH TAMPER RESISTANT THRU BOLTS SIMILAR TO DETAIL TO THE RIGHT.



B X300 ENTRY ACCESSIBILITY SIGN

NOT TO SCALE



C X300 ACCESSIBLE LATCH

NOT TO SCALE

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KEVIN D. KLOSE
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MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FENCE DETAILS

PROJECT NO.
21-12259

DRAWING
X300

Blair, Church & Flynn
CONSULTING ENGINEERS
463 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

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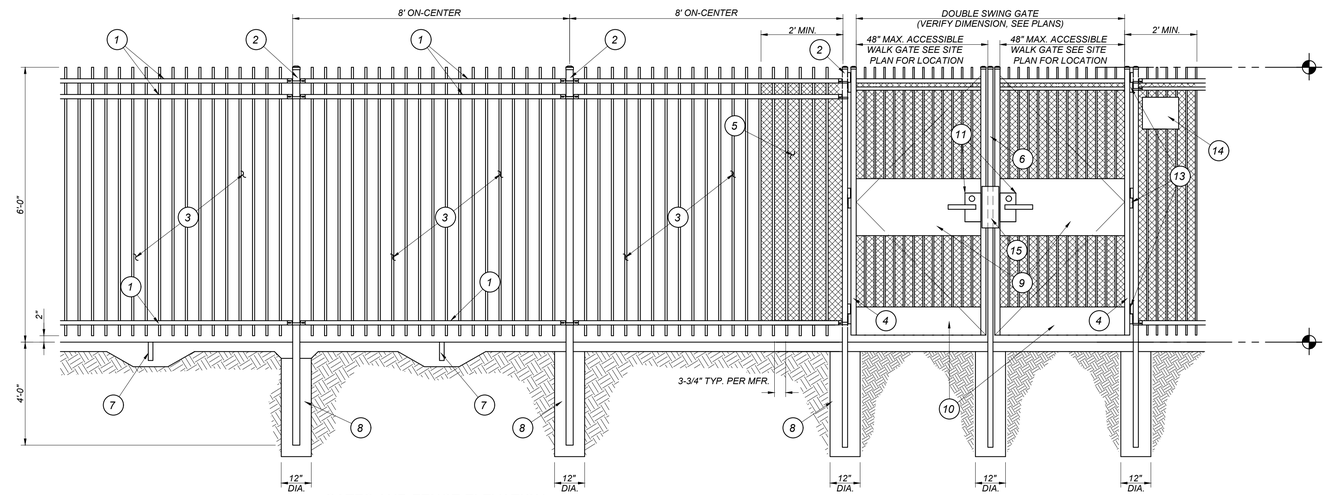
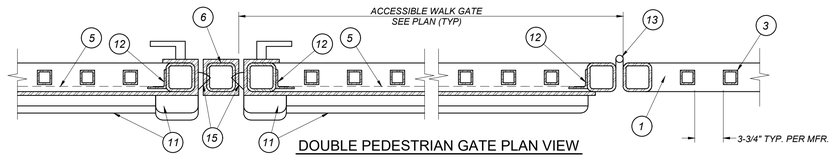
Plot by: ecampbell Feb 18, 2025 - 9:18am



GATES AND FENCE ELEVATION



DOUBLE PEDESTRIAN GATE PLAN VIEW

FENCE AND GATE NOTES:

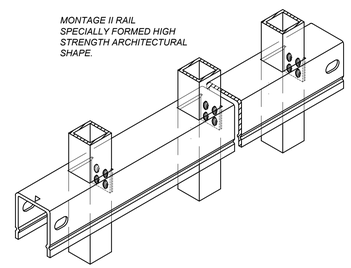
1. *FENCE TO BE MERCHANTS METALS GUARDSMAN "LAFAYETTE" STYLE FENCING OR APPROVED EQUAL. CONTRACTOR TO COORDINATE PLACEMENT OF STEEL POSTS FOR FENCING WHICH OCCURS ADJACENT TO BUILDINGS, COLUMNS OR BLOCK WALLS PLACING CONCRETE. VERIFY CLEAR OPENINGS IN FIELD PRIOR TO CONSTRUCTION.*
2. *FENCE PANEL SYSTEM SHALL BE INDUSTRIAL GRADE.*
3. *MOWSTRIP THICKNESS AT GATE OPENINGS TO BE 6" THICK.*
4. *CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.*
5. *ALL ACCESSIBLE GATES SHALL HAVE:*
   a. *LEVER TYPE LATCH (HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY ADA. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.*
   b. *SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.*
6. *NOT REVIEWED BY DSA*

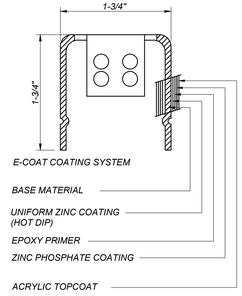
DECORATIVE METAL FENCE AND GATE LEGEND:

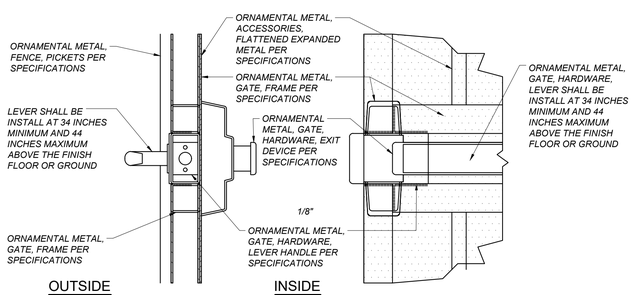
1. *1-3/4"W x 1-3/4"H x 12GA. HORIZONTAL RAILING FENCE PER THE MANUFACTURER*
2. *12GA. TUBE STEEL POST PER MANUFACTURER; LINE POSTS AND GATE POSTS SIZED PER THE MANUFACTURER*
3. *1" SQ. x 14GA. STEEL PICKETS PER MANUFACTURER*
4. *METAL GATE FRAME PER MANUFACTURER*
5. *FLATTENED EXPANDED METAL 1/2"X16 GA.*
6. *REMOVABLE MULLION POST PER DETAIL [C/X301]*
7. *INSTALL GATE HOLDBACK FOR ALL GATES.*
8. *CONCRETE FOOTING, TYPICAL.*
9. *12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES, THE FULL WIDTH OF THE GATE. PROVIDE A WELDED CAP TOP AND BOTTOM TO CLOSE OFF THE CAVITY. THE PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.*
10. *10" HIGH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES OF THE GATE AT BOTTOM, FULL WIDTH OF THE GATE. PROVIDE A WELDED CAP TOP AND BOTTOM TO CLOSE OFF THE CAVITY. THE KICK PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.*
11. *ALL PEDESTRIAN WALK GATES SHALL HAVE ADA/CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL. GATE LATCH SHALL REQUIRE A MAXIMUM OF 5 LBS OF PRESSURE TO OPERATE. HARDWARE PER THE SPECIFICATIONS*
12. *1" x 1" x 1/8" METAL ANGLE WELD WITH METAL GATE FRAME*
13. *HINGES PER THE SPECIFICATIONS*
14. *ACCESSIBLE GATE SIGN PER DETAIL [B/X300]*
15. *STRIKE PLATE*

A X301 DECORATIVE METAL FENCE AND GATE

NOT TO SCALE

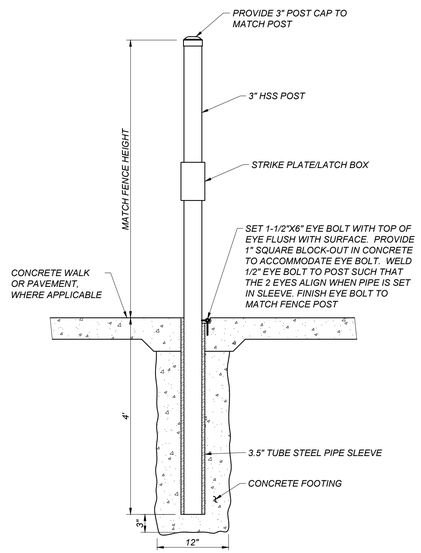






B X301 GATE LATCH ENCLOSURE SECTION

NOT TO SCALE



C X301 REMOVABLE GATE CENTER POST

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DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. KLOSE
No. 87218
CIVIL
STATE OF CALIFORNIA
01-15-25
Date Signed:

TETER, LLP
FRESNO HEADQUARTERS
VISALIA I BAKERSFIELD I MODESTO I SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FENCE DETAILS

PROJECT NO.
21-12259

DRAWING
X301

Blair, Church & Flynn
CONSULTING ENGINEERS
4551 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

Drawing: P:\21274-02\09\10st\production\maps\21274209_dt03.dwg, Site details (2) - BCT.CTB
Plot by: GeoffryDye Feb 18, 2025 - 9:19am

PLOT DATE: 2/18/2025 9:19:09 AM

IRRIGATION LEGEND:

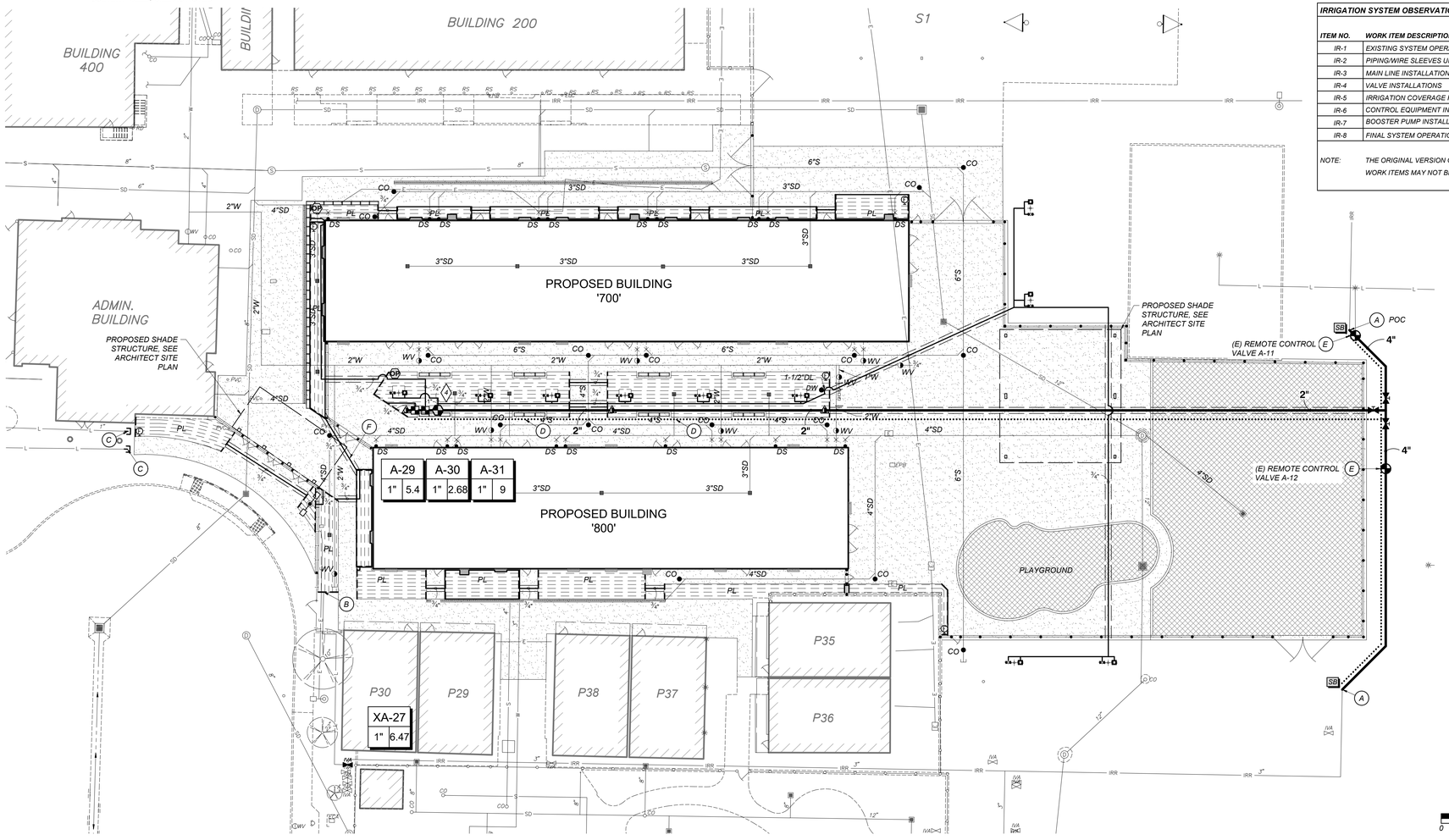
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
	HUNTER MSBN- 50Q ON A HUNTER PROS-06-PRS30-CV	90	30	0.5	2'	I/L102
	HUNTER RZWS-18-CV 50	360	30	0.5		I/L102

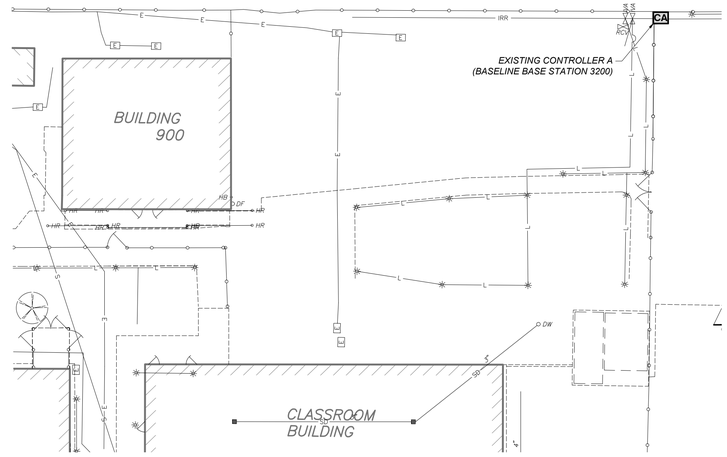
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	DRIP CONTROL ZONE KIT HUNTER ICZ-101-25-LF	A/L103
IVA	EXISTING DRIP VALVE HUNTER ICZ-101-40	
FV	FLUSH VALVE ASSEMBLY	D/L103
DP	DRIP OPERATION INDICATOR HUNTER ECO-ID	E/L103
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-04-18 (18) TECHLINE PRESSURE COMPENSATING LANDSCAPE 17MM DRIPLINE WITH CHECK VALVE. 0.4GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT ±18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 3" MINIMUM COVERAGE OVER TUBES	C/L103

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	HUNTER ICV-G	H/L102
	RELOCATED EXISTING REMOTE CONTROL VALVE	H/L102
	QUICK COUPLER HUNTER HQ-44LRC	L/L102
	RESILIENT WEDGE GATE VALVE MATCH MAIN LINE SIZE	K/L102
CA	EXISTING CONTROLLER CONTROLLER A (BASELINE BASE STATION 3200) IS LOCATED NORTHEAST OF BLDG 900, IN A FENCE ENCLOSURE, ON A PEDESTAL MOUNT ENCLOSURE. 28 STA USED OUT OF 36 STA TOTAL.	
	CAP FOR FUTURE USE CAP AT THE LATERAL LINE FOR FUTURE USE.	
SB	SPLICE BOX	G/L102
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 SOLVENT WELD, SIZE AS NOTED	C/L102

IRRIGATION LEGEND: (CONT.)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 RUBBER GASKETED, SIZE AS NOTED					A/L102
	PIPE SLEEVE: PVC SCHEDULE 40 TWICE PIPE SIZE					D/L102
	DRIPLINE MANIFOLD: PVC SCHEDULE 40					B/L103
	2-WIRE CABLE IN CONDUIT					F/L102
#	VALVE NUMBER					
#"	VALVE FLOW (GPM)					
#"	VALVE SIZE					
	CONTROLLER 'A' COMPATIBLE WITH DECODER MODULE NUMBER: BASELINE TWO-WIRE 4 = BL-5204					
+	PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201 FOR VARIETY AND SIZE					
A	CONNECT NEW MAIN LINE TO EXISTING MAIN LINE					
B	CONNECT EXISTING LATERAL LINE TO DRIP MANIFOLD					
C	CAP EXISTING LATERAL					
D	IRRIGATION UTILITY SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL UTILITY WITHIN PLANTER.					
E	CONNECT EXISTING REMOTE CONTROL VALVE TO NEW MAIN LINE					
F	COORDINATE NEW LATERAL PIPE ROUTING WITH STRUCTURE FOUNDATION.					





A / L101 CONTROLLER LOCATION NORTHEAST OF BLDG 200 & EAST OF BLDG 900

SCALE: 1" = 20'

LOCATION:
1. NEAR VALVE LOCATIONS A-1, A-2, A-3

IRRIGATION SYSTEM OBSERVATION LOG

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH PRINT NAME	SIGNATURE	DATE
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST			
IR-4	VALVE INSTALLATIONS			
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING			
IR-6	CONTROL EQUIPMENT INSTALLATION	N/A	N/A	
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)	N/A	N/A	
IR-8	FINAL SYSTEM OPERATION REVIEW			

NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

POINT OF CONNECTION

SYSTEM MAINLINE: 195 GPM

IRRIGATION BACKFLOW SIZE: 2"

IRRIGATION WATER SOURCE: WELL (CONTRACTOR SHALL VERIFY)

EXISTING STATIC PRESSURE: 60 PSI. SEE IRRIGATION GENERAL NOTE #3

DESIGN OPERATING PRESSURE: 30 PSI TREE BUBBLERS
25 PSI DRIP

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

DAVID W. BRILEY, RLA 2787

SEE SHEET L102-L103 FOR IRRIGATION NOTES, MWELO CALCS AND DETAILS

811 Know what's below. Call before you dig.

Blair, Church & Flynn
CONSULTING ENGINEERS
450 Clovis Avenue, Suite 200
Clovis, California 93612
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Fax (559) 326-1500

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED LANDSCAPE ARCHITECT DAVID W. BRILEY No. 2787 Signature 12/31/24 Renewal Date 01-15-25 STATE OF CALIFORNIA

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

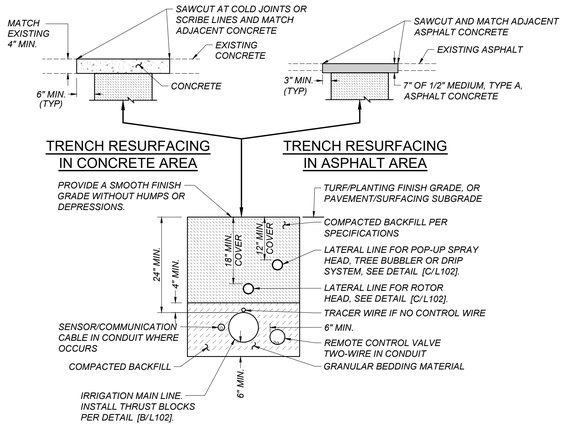
DRAWING TITLE
IRRIGATION PLAN

PROJECT NO.
21-12259

DRAWING
L101

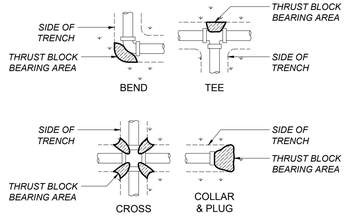
PLOT DATE: 2/18/2025 9:26:56 AM

Drawing: P:\21-12259 Clark (production\drawings\L121-12259\01 dwgs L101 — BCF.ctb
Plot by: dcraigwell Plot: 18, 2025 9:26:56AM



TYPICAL TRENCH SHOWN IN PLANTING AREA

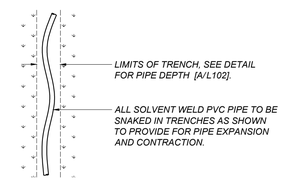
A L102 IRRIGATION TRENCH BACKFILL
NOT TO SCALE



NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

TABLE OF BEARING AREAS REQUIRED (IN SQUARE FEET)					
PIPE DIAMETER	≦4"	6"	8"	10"	12"
CROSS, TEE, 90° BEND, PLUG, FIRE HYDRANT	1	3	5	8	11
45° BEND	1	2	3	4	6
22-1/2° BEND	0.5	1	2	2	3
11-1/4° BEND	0	0	1	1	2
GATE VALVE (IN-LINE)	0	1	2.5	4	9

B L102 CONCRETE THRUST BLOCKS
NOT TO SCALE

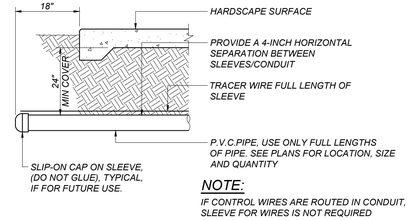


C L102 SOLVENT WELD PIPE
NOT TO SCALE

CONDUIT/SLEEVE FOR CONTROL WIRE

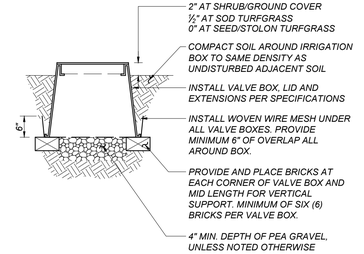
CONDUIT/SLEEVE SIZE	QTY. 14 GA. WIRE
1"	8 OR LESS
1-1/4"	15
1-1/2"	20
2"	32
2-1/2"	45
3"	70
4"	120

NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER



NOTE:
IF CONTROL WIRES ARE ROUTED IN CONDUIT, SLEEVE FOR WIRES IS NOT REQUIRED

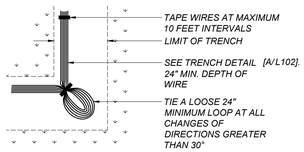
D L102 IRRIGATION SLEEVE/CONDUIT
NOT TO SCALE



NOTE:
PROVIDE A TRAFFIC RATED CONCRETE BOX AND LID FOR ANY BOX LOCATED IN HARDSCAPE PAVEMENT AND SET FLUSH TO FINISHED SURFACE. PROVIDE A 6"X6" CONCRETE COLLAR AROUND THE BOX IF LOCATED IN ASPHALTIC CONCRETE.

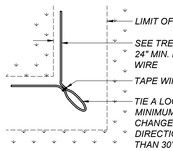
E L102 IRRIGATION VALVE BOX
NOT TO SCALE

NOTE:
ALL CONTROL WIRE AND TWO-WIRE CONTROL CABLE SHALL BE INSTALLED IN CONDUIT



NOTES:
1. TRADITIONAL WIRES UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT WHICH HAS BEEN PLACED BY BORING, JACKING OR DRILLING. CONDUIT TO BE PVC SCH 40 TYPE II PIPE. WIRES SHALL NOT BE TAPED TOGETHER INSIDE THE CONDUIT.
2. NO SPLICES ARE ALLOWED BETWEEN POINTS OF CONNECTIONS.
3. A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.
4. HOT - RED
COMMON - WHITE
SPARE HOT - BLACK
SPARE COMMON - BLUE
TRACER WIRE - GREEN

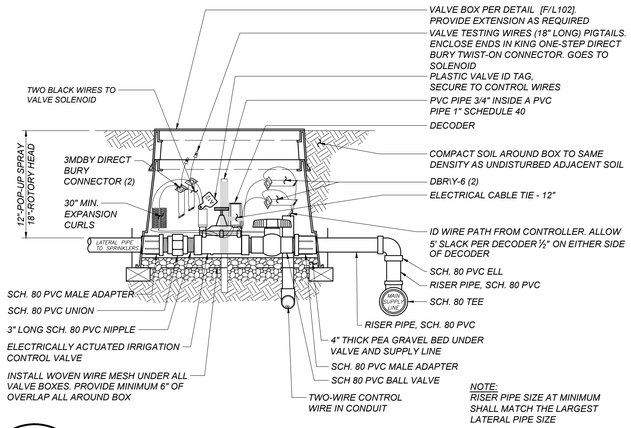
TRADITIONAL CONTROL WIRE



NOTES:
1. TWO-WIRE UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT PVC SCH. 40 TYPE II PIPE CONDUIT.
2. SPLICES ARE ALLOWED ONLY WITH DBRY-6 CONNECTORS.
3. A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.
4. SEE TWO-WIRE DECIDER SYSTEM NOTES.

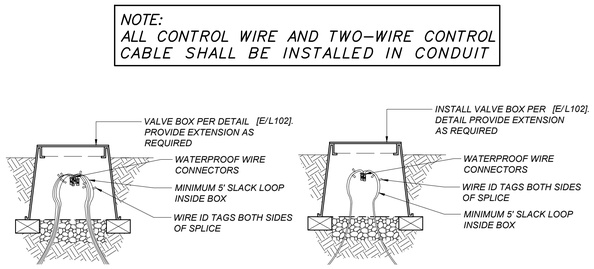
TWO-WIRE CONTROL CABLE

F L102 CONTROL WIRE
NOT TO SCALE



H L102 REMOTE CONTROL VALVE WITH BALL VALVE - GLOBE
NOT TO SCALE

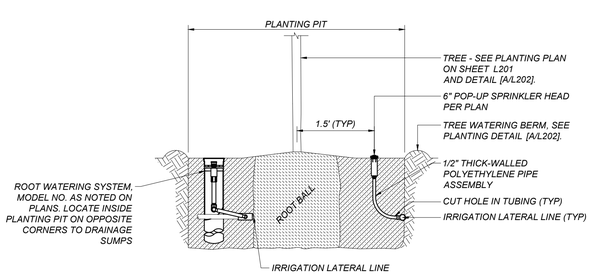
NOTE:
ALL CONTROL WIRE AND TWO-WIRE CONTROL CABLE SHALL BE INSTALLED IN CONDUIT



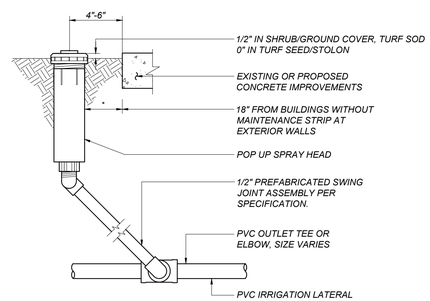
TRADITIONAL CONTROL WIRE

TWO-WIRE CONTROL CABLE

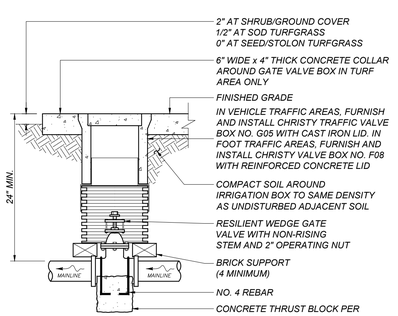
G L102 SPLICE BOX
NOT TO SCALE



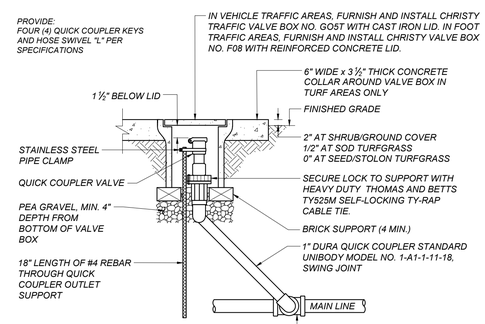
I L102 TREE BUBBLERS
NOT TO SCALE



J L102 POP-UP SPRAY
NOT TO SCALE



K L102 2" AND LARGER GATE VALVE
NOT TO SCALE



L L102 QUICK COUPLER VALVE
NOT TO SCALE

PLOT DATE: 2/18/2025 9:27:04 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED LANDSCAPE ARCHITECT
No. 5891
Signature
12/31/24
Renewal Date
31 - 15 - 25
STATE OF CALIFORNIA

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

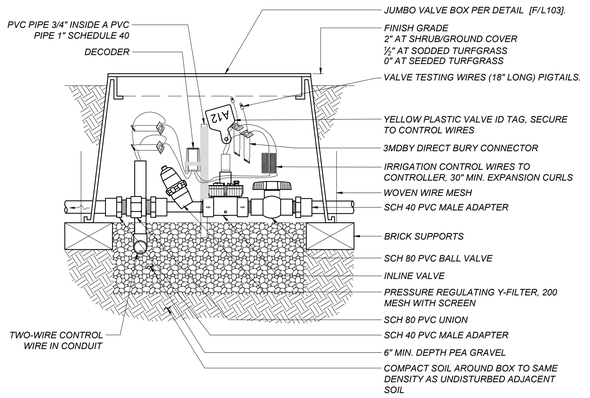
DRAWING TITLE
IRRIGATION DETAILS

PROJECT NO.
21-12259

DRAWING
L102

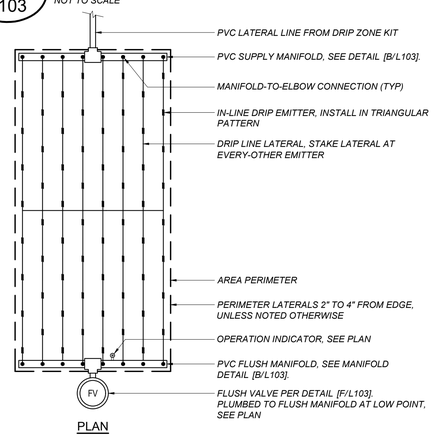
Blair, Church & Flynn
CONSULTING ENGINEERS
482 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

Drawing: P:\L2124-12259 DSA\1production\drawings\L2124259dst01.dwg, L102 - BCF.CTB
Plot By: sandyjaca Plot: 18 Feb 2025 - 9:27am



A / L103 DRIP ZONE ASSEMBLY

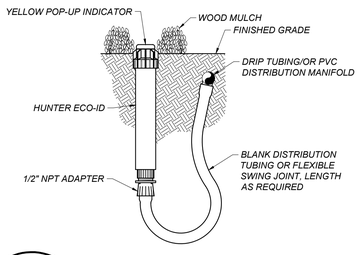
NOT TO SCALE



PLAN

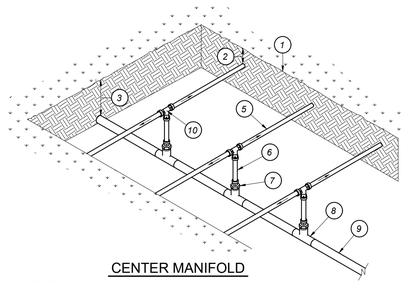
C / L103 DRIPLINE LAYOUT SCHEMATIC

NOT TO SCALE



E / L103 HUNTER ECO-INDICATOR

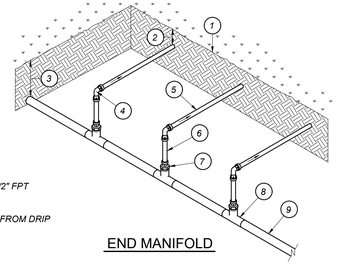
NOT TO SCALE



CENTER MANIFOLD

LEGEND:

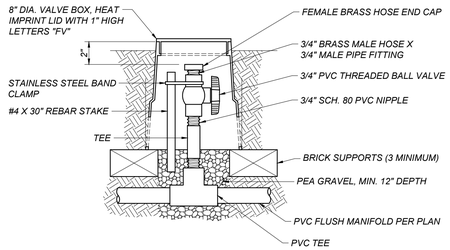
1. FINISH GRADE
2. DEPTH OF TUBING BELOW FINISHED GRADE - SEE LEGEND
3. MIN. 12" DEPTH OF PVC SUPPLY / FLUSH MANIFOLD BELOW FINISHED GRADE
4. ELBOW
5. DRIPLINE LATERAL, SEE PLAN
6. POLY TUBING, LENGTH AS NECESSARY
7. MALE ADAPTER
8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET
9. SCH 40 PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT
10. TEE



END MANIFOLD

B / L103 DRIPLINE MANIFOLD

NOT TO SCALE



D / L103 DRIPLINE FLUSH VALVE ASSEMBLY

NOT TO SCALE

WATER EFFICIENT LANDSCAPE WORKSHEET
Educational - DSA PR 15-03

Project: Franklin Elem. School Modernization (Phase 3)
Location: 2736 Franklin Road
ETo Reference (MWELO-Apdx. A): Merced

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS)

TOTAL NEW BUILDING FOOTPRINT	13,981	SF	(1,600 sf is threshold for inclusion)
75% OF BLDG. SF REQ'D LANDSCAPE	10,486	SF	
EXIST. IRRIGATION REMOVED FROM SERVICE	20,607	SF	
REGULAR LANDSCAPE AREA	4,695	SF	(landscape area >500 sf)
SPECIAL LANDSCAPE AREA (SLA)	0	SF	
TOTAL PROPOSED LANDSCAPE AREA (LA)	4,695	SF	
TOTAL OVER (UNDER) REQUIRED AREA	14,816	SF	

NORMAL YEAR REFERENCE	ANNUAL
EVAPOTRANSPIRATION (ETo)	51.5
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0
ADJUSTED EVAPOTRANSPIRATION	51.5

MAWA=(ETo) x (0.62) [(0.65 x LA)+(0.35 x SLA)]	ANNUAL		2015 DWR/DSA Update
MAX. APPLIED WATER ALLOWANCE	**97.4**	K Gallons	
TOTAL IN ACRE/FT	0.3		
TOTAL IN CCF	130.3		

ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS)

LANDSCAPE HYDROZONE TYPES	4,695	HA	PF	IE	ETAF
MIXED PLANTING (L)	3,942	SF	0.3	0.81	0.37
MIXED PLANTING (M)	753	SF	0.5	0.81	0.62
WARM-SEASON TURFGRASS (MH)	0	SF	0.6	0.75	0.80
SLA - RECREATIONAL/RECYCED WATER USE	0	SF	0.6	0.75	0.80
	AVERAGE REGULAR ETAF:				0.41
	MAXIMUM AVERAGE REGULAR ETAF:				**0.65**
	AVERAGE SITEWIDE ETAF:				0.41

ETWU=(ETo) x (0.62)x [(HA x PF/IE) + SLA]	ANNUAL		typical IE coeficients
MIXED PLANTING (L)	46.6		0.75 overhead sprinklers
MIXED PLANTING (M)	14.8		0.81 drip & bubblers
WARM-SEASON TURFGRASS (M)	0.0		
SLA - RECREATIONAL/RECYCED WATER USE	0.0		
ESTIMATED TOTAL WATER USE	**61.5**	K Gallons	
TOTAL IN ACRE/FT	0.2		
TOTAL IN CCF	82.2		

ETWU AS A PERCENT OF MAWA: 63%

GENERAL IRRIGATION NOTES:

1. *ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE)*
2. *THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.*
3. *PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.*
4. *THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATIONAL.*
5. *THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.*
6. *THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.*
7. *THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.*
8. *THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.*
9. *THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC, OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.*
10. *DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.*
11. *VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.*
12. *THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLANS) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.*
13. *ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.*
14. *INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.*
15. *CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS. REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.*
16. *THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR.*
17. *THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.*
18. *CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.*
19. *ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.*
20. *WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.*
21. *ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.*
22. *THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:*
    - *A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.*
    - *B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).*
    - *C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.*
    - *D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.*
    - *E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.*
    - *F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.*
    - *G. INITIAL ELECTRICAL DATA ON EACH VALVE:*
      - *(1) OHMMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.*
      - *(2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.*
23. *THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE.*
24. *IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.*
25. *REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK. ADJUST THE ELEVATION OF ALL EXISTING VALVE BOXES WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.*

DRIP SYSTEM IRRIGATION NOTES:

1. *ALL ITEMS, ACCESSORIES, FITTINGS, ETC. NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SUB-SURFACE DRIP SYSTEM ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.*
2. *THE EQUIPMENT AND COMPONENTS CALLED OUT ON THE DRAWING LEGEND ARE THE PREFERENCE OF THE OWNER AND ARE SELECTED TO MATCH EQUIPMENT AND COMPONENTS IN USE IN OTHER SIMILAR IRRIGATION SYSTEMS OF THE OWNER.*
3. *PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY ANY EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AND AVAILABLE SAFE FLOW AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER BEFORE STARTING WORK, OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.*
4. *THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND COMPONENTS SHALL BE LOCATED IN PLANTING AREAS, UNLESS NOTED OTHERWISE. VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE.*
5. *INSTALL DRIP EMITTERS IN A TRIANGULAR OR STAGGERED PATTERN AND AT A CONSISTENT DEPTH BELOW GRADE AS SHOWN OR INDICATED IN THE DRAWINGS.*
6. *STAKE THE EMITTER TUBING USING THE MANUFACTURER'S RECOMMENDED STAKES DIRECTLY OVER EVERY OTHER EMITTER. FOR EXAMPLE, IF THE EMITTERS ARE SPACED AT 18 INCHES O.C., THEN STAKE AT 36 INCHES O.C.*
7. *PRIOR TO BACKFILLING THE DRIP TUBING AND THE START OF PLANTING OPERATIONS, THE SYSTEM SHALL BE REVIEWED FOR PROPER OPERATION BY THE OWNER'S REPRESENTATIVE.*
8. *PROGRAM THE CONTROLLER TO OPERATE THE CONTROL VALVE(S) FOR THE DRIP SYSTEM USING THE CONTROLLER'S "CYCLE AND SOAK" FEATURE IN ORDER TO APPLY THE REQUIRED WATER AMOUNT IN THREE EQUAL CYCLES.*
9. *PRIOR TO THE START OF PLANTING OPERATIONS, THE DRIP SYSTEM SHALL BE OPERATED FOR A FREQUENCY AND DURATION TO ADEQUATELY MOISTEN THE TOPSOIL TO A MINIMIM DEPTH OF 12 INCHES AT ANY LOCATION WITHIN THE PLANTING AREA .*
10. *THE CONTRACTOR SHALL PROVIDE ONE HUNDRED (100) FEET OF IN-LINE EMITTER TUBING OF THE SAME MODEL AS SPECIFIED, ENOUGH STAKES FOR THE 100 FEET, AND TEN (10) OF EACH TYPE OF FITTINGS USED ON THE PROJECT FOR THE OWNER'S USE AS SPARE PARTS.*
11. *IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES, AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATION.*
12. *THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL PRIOR TO THE START OF WORK. ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER THE PLANTING SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.*

TWO-WIRE DECODER SYSTEM NOTES:

1. *ALL DECODERS, CONTROL WIRE, ACCESSORIES, CONNECTORS, GROUNDING AND INSTALLATION SHALL COMPLY WITH THE CONTROLLER/DECODER MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS.*
2. *EARTH GROUNDING SHALL BE INSTALLED ALONG THE WIRE PATH AT EVERY 12TH DECODER, OR 1,000 FEET OF CABLE RUN, WHICHEVER IS SHORTER. THE LAST DECODER ON A WIRE RUN SHALL BE EARTH GROUNDED. THE GROUNDING PLATE SHALL BE ORIENTED PERPENDICULAR FROM THE CABLE RUN AND SHALL BE AT LEAST 36 INCHES BELOW GRADE.*
3. *TWO-WIRE CABLE SHALL BE A JACKETED, TWISTED PAIR OF 14 AWG SOLID-CORE WIRE FOR UP TO 10,000 FEET OF RUN. WIRE CONNECTORS SHALL BE DBRY-6, OR EQUAL. EACH SEPARATE WIRE PATH FROM THE CONTROLLER SHALL HAVE A DIFFERENT COLOR CABLE MARKING.*
4. *CABLE PATH BRANCHES SHALL BE MADE WITH A PAIGE DCFC SPLITTER. INSTALL THE SPITTER WITH DBRY-6 CONNECTORS. PROVIDE A MINIMUM OF 5 FEET OF SLACK CABLE ON EACH SIDE OF THE CONNECTION, AND INSTALL IN A RECTANGULAR VALVE BOX PER THE SPECIFICATIONS.*
5. *USE ONE DECODER STATION TO OPERATE ONE CONTROL VALVE. GROUPED VALVES MAY USE MULTIPLE STATION DECODERS (2, 4 OUTPUTS IN ONE DECODER).*
6. *INSTALL THE DECODER INSIDE THE CONTROL VALVE BOX. PROVIDE ADEQUATE SLACK WIRE FOR ABOVE-GROUND INSPECTION AND MAINTENANCE. USE TWISTED WIRE CABLE FOR DECODER TO SOLENOID RUNS GREATER THAN 20 FEET UP TO 150 FEET, OTHERWISE USE 14 AWG IRRIGATION CONTROL WIRE. DECODER TO SOLENOID CONNECTIONS SHALL BE MADE WITH DBY-6 CONNECTORS OR EQUAL.*

CONTRACTOR SPECIAL IRRIGATION NOTES:

1. *THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.*
2. *THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.*
3. *PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.*
4. *THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*
5. *THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.*
6. *UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.*

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED LANDSCAPE ARCHITECT
BRIAN D. BULLOCK
Signature
12/31/24
Renewal Date
31 JAN 26
STATE OF CALIFORNIA

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

DRAWING TITLE
IRRIGATION DETAILS

PROJECT NO.
21-12259

DRAWING
L103

Drawing: P:\ 21-12259 \Dsk\ [construction drawings] \ 21-12259 sht01.dwg - L103 - BCF.ctb
Date: 2/18/2025 - 9:27:08 AM
Plot by: scottgiles

PLOT DATE: 2/18/2025 9:27:08 AM

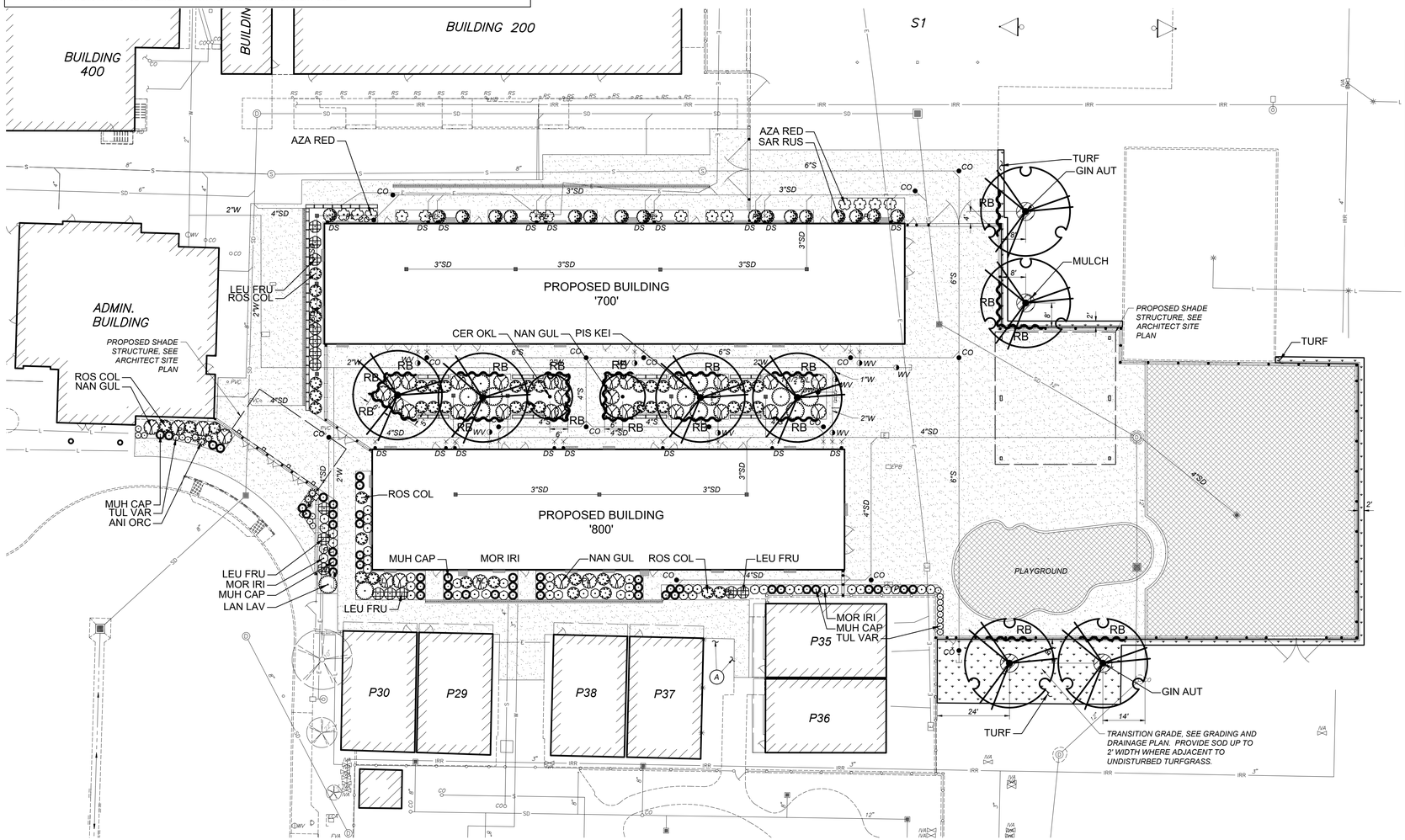
PLANT LEGEND: *MIXED PLANTING AREA: 4,695 SQ FT*

SUNSET ZONE: 8

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
TREES							
	CER OKL	CERCIS CANADENSIS TEXENSIS `OKLAHOMA` OKLAHOMA TEXAS REDBUD	15 GAL	VL	2	A/L202	DECIDUOUS STANDARD FORM SMALL SIZE SHADE MS: 12'-18` H X 15'-20` W
	GIN AUT	GINKGO BILOBA 'AUTUMN GOLD` TM AUTUMN GOLD MAIDENHAIR TREE	24"BOX	M	4	A/L202	DECIDUOUS STANDARD FORM MEDIUM SIZE SHADE MS: 40'-50' H X 25'-30' W
	PIS KEI	PISTACIA CHINENSIS 'KEITH DAVEY` KEITH DAVEY CHINESE PISTACHE	24"BOX	L	4	A/L202	DECIDUOUS STANDARD FORM LARGE SIZE SHADE 25'-40' H X 25'-35' W

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
SHRUBS							
	ANI ORC	ANIGOZANTHOS X `ORANGE CROSS` ORANGE CROSS KANGAROO PAW	5 GAL	L	5	B/L202	EVERGREEN SUN TO PARTIAL SHADE MS: 4-5' H X 2-3' W
	AZA RED	AZALEA X `RED BIRD` RED BIRD AZALEA	5 GAL	M	15	C/L202	EVERGREEN SHADE TOLERANT (SPECIAL BACKFILL REQUIREMENT) MS: 3-4' H X 4' W
	LAN LAV	LANTANA MONTEVIDENSIS `LAVENDER SWIRL` LAVENDER SWIRL TRAILING LANTANA	5 GAL	L	14	B/L202	EVERGREEN FULL SUN MS: 8"-12" H X 3'-6' W
	LEU FRU	LEUCOPHYLLUM FRUTESCENS `COMPACTA` COMPACT TEXAS RANGER	5 GAL	L	15	B/L202	EVERGREEN FULL SUN MS: 3-4' H X 3-4' W
	MOR IRI	MORAEA IRIDIOIDES FORTNIGHT LILY	5 GAL	L	47	B/L202	EVERGREEN FULL SUN, PARTIAL SHADE MS: 2' H X 2-3' W
	NAN GUL	NANDINA DOMESTICA `GULF STREAM` TM GULF STREAM HEAVENLY BAMBOO	5 GAL	L	37	B/L202	EVERGREEN FULL SUN, PARTIAL SUN MS: 3`-4` H X 3`-5` W
	ROS COL	ROSMARINUS OFFICINALIS 'COLLINGWOOD INGRAM' COLLINGWOOD INGRAM ROSEMARY	5 GAL	L	46	B/L202	EVERGREEN FULL SUN MS: 2'-3' H X 4' W
	SAR RUS	SARCOCOCCA RUSCIFOLIA FRAGRANT SWEETBOX	5 GAL	M	17	B/L202	EVERGREEN FULL SHADE MS: 3'-5' H X 3'-5' W
PERENNIALS							
	TUL VAR	TULBAGHIA VIOLACEA `VARIEGATA` VARIEGATED SOCIETY GARLIC	1 GAL	L	17	B/L202	SEMI-EVERGREEN FULL SUN MS: 1`-2` H X 2` W
GRASSES							
	MUH CAP	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	5 GAL	L	48	B/L202	HERBACEOUS PERENNIAL FULL SUN TO PARTIAL SHADE MS: 2'-3' H X 2'-3' W
SYMBOL	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**WATER USE**	**QTY**	**DETAIL**	**REMARKS**
GROUND COVERS							
	TURF	BOLERO PLUS (90% BOLERO DWARF FESCUE/10% BLUE GRASS)	SOD	H	1,877 SF	E/L202	
	MULCH	WOOD MULCH WALK-ON BARK TYPE	N/A	N/A	112 SF	D/L202	MIN. 3" DEPTH. IN ADDITION TO TOTAL PLANTING AREA.

LANDSCAPE PLANTING OBSERVATION LOG				
		REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH		
ITEM NO.	WORK ITEM DESCRIPTION	PRINT NAME	SIGNATURE	DATE
PL-1	REPORT & PROTECTION OF EXISTING TREES			
PL-2	RIPPING OF PLANTING AREAS			
PL-3	SOIL CONDITIONING & TILLAGE DEPTH			
PL-4	IRRIGATION COVERAGE PRIOR TO PLANTING			
PL-5	FINISH GRADING PRIOR TO PLANTING			
PL-6	TREES - INITIAL QUALITY & LAYOUT			
PL-7	PLANTS - INITIAL QUALITY & LAYOUT			
PL-8	GRANULAR PRE-EMERGENT HERBICIDE IN MULCHED AREAS			
PL-9	WOOD MULCH DEPTH			
NOTES:	THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.			



KEYNOTES:

(A) *PROTECT EXISTING VEGETATION FOR NEW HARDSCAPE. REPAIR IF NEEDED.*

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

DAVID W. BRILEY, RLA 2787

CONTRACTOR SPECIAL PLANTING NOTES:

1. *AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE 'EXISTING LANDSCAPE PROTECTION' SPECIFICATION.*
2. *THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND 'LANDSCAPE PLANTING' SPECIFICATIONS.*
3. *ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES, CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.*
4. *THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*
5. *THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.*

LANDSCAPE SHADE CALCULATIONS	SHADING PER CALGREEN 5.106.12		
SITE SHADING - LANDSCAPE & HARDSCAPE	**QUANTITY PROPOSED (SF)**	**PERCENT REQUIRED**	**SHADE AREA REQUIRED (SF)**
LANDSCAPED AREA (EXCLUDING SPECIAL USE & PARKING LANDSCAPE AREAS)	4,695	20	939
UNCOVERED HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)	19,966	20	3,993
TOTAL SITE SHADE REQUIRED			4,932
PROVIDED SHADE TREES	**PROVIDED SHADE AREA**	**NO. TREES**	
VERY LARGE (40' dia.= 1256 SF)	0	0	
LARGE (35' dia.= 962 SF)	0	0	
MEDIUM (30' dia.= 707 SF)	5,656	8	
SMALL (20' dia.= 314 SF)	628	2	
TOTALS	6,284	10	
OVER (UNDER) LANDSCAPE & HARDSCAPE SHADE REQUIREMENT			1,352

SEE SHEET L202 FOR PLANTING NOTES AND DETAILS

SCALE: N 1"=20'

0 5 20 40 SCALE IN FEET

811 Know what's below. Call before you dig.

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DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED LANDSCAPE ARCHITECT DAVID W. BRILEY Signature 12/31/24 Renewal Date 31-15-25 STATE OF CALIFORNIA

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

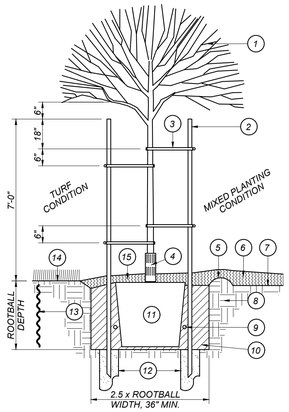
DRAWING TITLE
PLANTING PLAN

PROJECT NO.
21-12259

DRAWING
L201

PLOT DATE: 2/18/2025 9:27:36 AM

Drawing: P:\L21-12259\L1\Production\drawings\L21-12259sht1.dwg, L201 — BCF,CTB
Plot by: somfgara Plot: 18, 2025 — 9:27am



DRAINAGE SUMP NOTES:

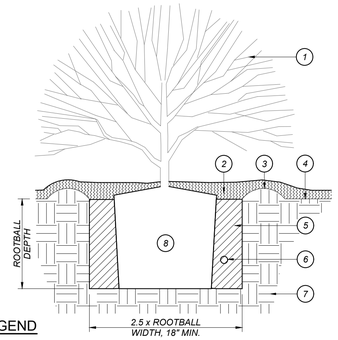
A. *DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.*

B. *THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.*

LEGEND:

1. *TREE PER PLANTING PLAN.*
2. *2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.*
3. *FLEXIBLE VINYL TREE TIE, 4 / TREE (V.I.T. OR APPROVED EQUAL.)*
4. *TREE TRUNK PROTECTOR (GRAY) WHERE TREE IS IN TURF AREA.*
5. *4" HIGH WATERING BERM.*
6. *ADJACENT PLANTING AREA WITH MULCH WHERE OCCURS.*
7. *FINISH GRADE.*
8. *SITE SOIL.*
9. *PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.*
10. *AMENDED BACKFILL. SEE SPECIFICATIONS.*
11. *ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.*
12. *DRAINAGE SUMP: 12" DIA. PER DRAINAGE SUMP NOTES. FILL WITH CONCRETE SAND PER SSPWC 200-1.5.5.*
13. *ROOT CONTROL BARRIER WHERE REQUIRED. SEE GENERAL PLANTING NOTES AND DETAIL [D/L202].*
14. *ADJACENT TURFGRASS PLANTING WHERE OCCURS.*
15. *MULCH, MINIMUM 3" DEPTH. SEE GENERAL PLANTING NOTE 17.*

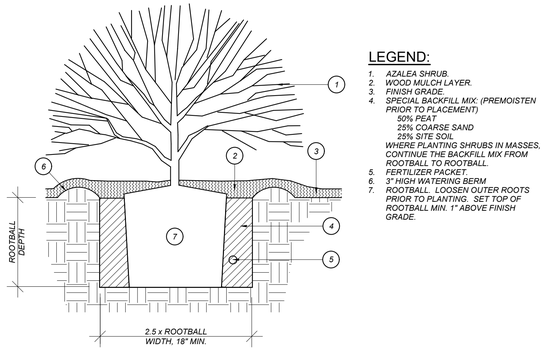
A / L202 — DOUBLE STAKE TREE PLANTING
NOT TO SCALE



LEGEND

1. *SHRUB.*
2. *WOOD MULCH LAYER.*
3. *3" HIGH WATERING BASIN.*
4. *FINISH GRADE.*
5. *AMENDED BACKFILL. SEE SPECIFICATIONS.*
6. *FERTILIZER PACKET. SEE SPECIFICATIONS.*
7. *SITE SOIL.*
8. *ROOTBALL. SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE.*

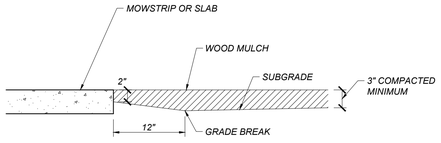
B / L202 — SHRUB PLANTING
NOT TO SCALE



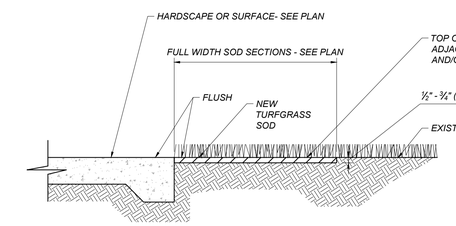
LEGEND:

1. *AZALEA SHRUB.*
2. *WOOD MULCH LAYER.*
3. *FINISH GRADE.*
4. *SPECIAL BACKFILL MIX: (PREMOISTEN PRIOR TO PLACEMENT)*
   50% PEAT
   25% COARSE SAND
   25% SITE SOIL
   WHERE PLANTING SHRUBS IN MASSES, CONTINUE THE BACKFILL MIX FROM ROOTBALL TO ROOTBALL.
5. *FERTILIZER PACKET.*
6. *3" HIGH WATERING BERM*
7. *ROOTBALL. LOOSEN OUTER ROOTS PRIOR TO PLANTING. SET TOP OF ROOTBALL MIN. 1" ABOVE FINISH GRADE.*

C / L202 — AZALEA PLANTING
NOT TO SCALE



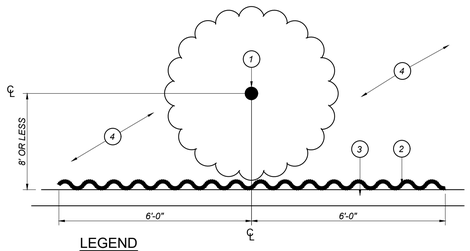
D / L202 — MULCH DETAIL
NOT TO SCALE



NOTE:

IF THE EXISTING TURFGRASS FINISH GRADE IS HIGHER OR LOWER THAN THE NEW FINISH SURFACE, TRANSITION GRADE THE NEW SOD AT A MAXIMUM 1V:12H SLOPE

E / L202 — TURF SOD INSTALLATION
NOT TO SCALE



LEGEND

1. *TREE TRUNK.*
2. *12 LF OF 24"-DEEP ROOT CONTROL BARRIER: DEEP ROOT UB24-2 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.*
3. *HARDSCAPE ELEMENT: CURB, SIDEWALK, WALL, ETC.*
4. *PLANTING AREA.*
5. *INSTALL ROOT CONTROL BARRIER ON ALL SIDES OF THE PLANTING AREA WHEN SURROUNDED BY HARDSCAPE WITHIN 8' OF THE TREE TRUNK.*

F / L202 — ROOT CONTROL BARRIER
NOT TO SCALE

PLANTING NOTES:

1. *IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.*
2. *ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.*
3. *ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).*
4. *NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.*
5. *PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.*
6. *WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.*
7. *ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.*
8. *REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.*
9. *INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.*
10. *THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.*
11. *SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.*
12. *PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.*
13. *PRIOR TO SOIL CONDITIONING NEW PLANTING AREAS, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP 6 INCHES OF ALL PLANTING AREAS PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF SIX (6) CUBIC YARDS PER 1,000 SQUARE FEET.*
14. *UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.*
15. *OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.*
16. *AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.*
17. *WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS, AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.*
18. *INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.*
19. *ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR UTILITY/IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.*
20. *CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.*

TREE SIZE AND QUALITY STANDARDS

AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION) SHALL APPLY

	TYPES 1 & 2 SHADE TREES			*TYPE 3 SMALL UPRIGHT TREES***			*TYPE 4 SMALL SPREADING TREES****		
CONTAINER SIZE	*MIN. CALIPER*	*MAX. CALIPER*	*TYPE 1 MIN./MAX. HEIGHT**	*MIN. CALIPER*	*MAX. CALIPER*	*MIN./MAX. HEIGHT*	*MIN. CALIPER*	*MAX. CALIPER*	*MIN./MAX. HEIGHT*
15 GALLON	*0.75*	*2.0*	*7-10 FT*	*0.75*	*2.0*	*6-8 FT*	*0.75*	*2.0*	*4-8 FT*
24" BOX	*1.25*	*3.0*	*8-12 FT*	*1.25*	*3.0*	*8-10 FT*	*1.25*	*3.0*	*6-10 FT*
36" BOX	*1.75*	*3.5*	*10-16 FT*	*1.75*	*3.5*	*10-14 FT*	*1.75*	*3.5*	*7-12 FT*
42" BOX	*2.0*	*4.0*	*12-20 FT*	*2.0*	*4.0*	*12-18 FT*	*2.0*	*4.0*	*8-14 FT*
48" BOX	*2.5*	*5.0*	*14-26 FT*	*2.5*	*5.0*	*14-22 FT*	*2.5*	*5.0*	*9-16 FT*

** TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.*

*** TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES*

**** TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES*

CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS

CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12"

TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE

SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER; AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.

THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.

TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.

DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT

PLOT DATE: 2/18/2025 9:27:42 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED LANDSCAPE ARCHITECT — BRILEY MARCUS — Signature — 12/31/24 — Renewal Date — 31-15-22 — 5052 — STATE OF CALIFORNIA

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ARCHITECTS ENGINEERS CONNECTED
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE III)
2736 Franklin Road, Merced, CA

DRAWING TITLE
PLANTING DETAILS

PROJECT NO.
21-12259

DRAWING
L202

Blair, Church & Flynn
CONSULTING ENGINEERS
481 Clovis Avenue, Suite 300
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Plot by: wendyford Feb 18, 2025 - 9:27am

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ABBREVIATIONS

ABBREVIATIONS: WHEN USED IN THESE DOCUMENTS SHALL CONFORM TO THE FOLLOWING LIST UNLESS OTHERWISE NOTED. DRAWINGS OF OTHER DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) MAY CONTAIN SPECIFIC ABBREVIATIONS, REFERENCES, AND LEGENDS WITH INTERPRETATION INTENDED ONLY FOR THOSE DISCIPLINES.

&	AND
∠	ANGLE
@	AT
℄	CENTERLINE
∅	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	POUND OR NUMBER
(E)	EXISTING
(N)	NEW
ABV.	ABOVE
A/C	AIR CONDITIONING
ACP	ASPHALT CONCRETE PAVING
ACST.	ACOUSTICAL
A.C.T.	ACOUSTIC CEILING TILE
A.B.	ANCHOR BOLT
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	ADA ACCESSIBLE GUIDELINES
ADDL.	ADDITIONAL
ADJ.	ADJUSTABLE
ADJC.	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AGG.	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
A.P.C.	ACOUSTIC PANEL CEILING
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
AV	AUDIO VISUAL
BD.	BOARD
BEL.	BELOW
B.E.N	BOUNDARY EDGE NAILING
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BETWEEN
B.U.R.	BUILT-UP ROOF(ING)
C&G	CURB AND GUTTER
CAB.	CABINET
C.B.	CARRIAGE BOLT
CEM.	CEMENT
CER.	CERAMIC
C.F.	CUBIC FOOT
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
C.L.	CENTER LINE
C.L.F.	CHAIN LINK FENCE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CL.RM.	CLASS ROOM
CMU	CONCRETE MASONRY UNIT
CTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CPT.	CARPET
CRC	COLD ROLLED CHANNEL
CTR.	CENTER
CTSK	COUNTERSUNK
C.Y.	CUBIC YARD
D.A.	DISABLED ACCESS
DBL.	DOUBLE
DEMO	DEMOLISH/ DEMOLITION
D.F.	DRINKING FOUNTAIN OR DOUGLAS FIR
DET.	DETAIL
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
DP.	DEEP
DS	DOWN SPOUT
DWG.(S)	DRAWING
DWR.	DRAWER
E	EAST
EA.	EACH
E.F.	EXHAUST FAN
EGR.	ENGINEER
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
ELEV.	ELEVATOR
EMB.	EMBEDMENT
EMER.	EMERGENCY
E.N.	EDGE NAILING
ENCL.	ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
EVAP.	EVAPORATIVE
E.W.	EACH WAY
EXH.	EXHAUST
EXST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FA.	FIRE ALARM
F.B.	FLAT BAR
F.B.O.	FURNISHED BY OWNER/OTHERS
F.D.	FLOOR DRAIN
F.D.C.	FIRE DEPARTMENT CONNECTION
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FACTORY FINISH
F.FLR.	FINISH FLOOR
F.G.	FINISH GRADE
F.H.	FIRE HYDRANT
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN.	FINISH
FIXT.	FIXTURE
FLR.	FLOOR(ING)
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FRP	FIBERGLASS REIN-FORCED PANELING
F.S.	FIRE SPRINKLER(S)
F.S.H.	FIRE SPRINKLER HEAD
FT.	FOOT/FEET
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTR.
GEN.	GENERAL
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
H.B.	HOSE BIBB
HBD.	HARDBOARD
H.C.	HOLLOW CORE
HD.	HEAD
H.D.	HEAVY DUTY
HDR.	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
H.M.D.	HOLLOW METAL DOOR
H.M.F.	HOLLOW METAL FRAME
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HVAC	HEATING/VENTIL-ATING/AIR COND-ITIONING
HWY	HIGH WAY
I.D.	INSIDE DIAMETER/ DIMENSION
INFO	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
KIT.	KITCHEN
K.O.	KNOCK OUT
K.O.P.	KNOCK OUT PANEL
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LB(S)	POUND (POUNDS)
L.B.	LAG BOLT
L.F.	LINEAL FOOT
L.H.	LEFT HAND
LIB.	LIBRARY
LT.	LIGHT
LT.WT.	LIGHT WEIGHT
MACH.	MACHINE
MAINT.	MAINTENANCE
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.B.M.	METAL BUILDING MANUFACTURER
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MKR.	MARKER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTG.	MEETING
MULL.	MULLION
N	NORTH
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.R.C.	NOISE REDUCTION COEFFICIENT
N.T.S.	NOT TO SCALE
OCC	OCCUPANT LOAD
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER/ DIMENSION
OFF.	OFFICE
OFCI	OWNER FURNISHED, CONTR. INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
O.F.R.D.	OVER FLOW ROOF DRAIN
O.H.	OPPOSITE HAND
O.H.C.D.	OVER HEAD COILING DOOR
O.H.M.S.	OVAL HEAD MACH. SCREW
O.H.W.S.	OVAL HEAD WOOD SCREW
OPNG.	OPENING
OPP.	OPPOSITE
O/	OVER
ORIG.	ORIGINAL
OVHD	OVER HEAD
OWJ	OPEN WEB JOIST
P.B.N.	PLYWOOD BOUNDARY NAILING
P.E.N.	PLYWOOD EDGE NAILING
P.E.S.	PLYWOOD EDGE SCREWS
P.I.V.	POST INDICATOR VALVE
P.LAM.	PLASTIC LAMINATE
P.L.	PROPERTY LINE
PL.	PLATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PR.	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT.	POINT
P.T.D.	PAPER TOWEL DISP.
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PTN.	PARTITION
PVC	POLYVINYL CHLORIDE
R.	RADIUS
R	THERMAL RESISTANCE
R.A.	RETURN AIR
R.D.	ROOF DRAIN
REFL.	REFLECTED
REFR.	REFRIGERATOR
REINF.	REINFORCED
REM.	REMOVE
REQD.	REQUIRED
RESIL.	RESILIENT
R.H.	RIGHT HAND
R.H.W.S.	ROUND HEAD WOOD SCREW
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT-OF-WAY
RWD.	REDWOOD
RWL	RAIN WATER LEADER
S	SOUTH
S.A.	SUPPLY AIR
S.C.	SOLID CORE
SCH	SCHEDULE
S.D.	STORM DRAIN
SECT.	SECTION
SF	SQUARE FEET/FOOT
SHR.	SHOWER
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.O.G.	SLAB-ON-GRADE
SPEC(S).	SPECIFICATION(S)
SPKR.	SPEAKER
SQ.	SQUARE
S.S.	STAINLESS STEEL
STA.	STATION
STC	SOUND TRANS-MISSION CLASS
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
S.W.	SIDE WALK
SYM.	SYMMETRICAL
T.C.	TOP OF CONCRETE
TEMP.	TEMPORARY
TMPD.	TEMPERED
T&G	TONGUE AND GROOVE
THD.	THREADED
THK.	THICK
T.I.	TENANT IMPROVEMENT
TK.BD.	TACK BOARD
T.O.S.	TOP OF STEEL
T.P.	TOP OF PAVEMENT
TS	TUBE STEEL
TEL.	TELEPHONE
TTB	TELEPHONE TERM-INAL BACK BD.
TV.	TELEVISION
TYP.	TYPICAL
U.G.	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VTR	VENT TO ROOF
VWC	VINYL WALL COVERING
W	WEST OR WIDTH/WIDE
W/	WITH
W.C.	WATER CLOSET
W.CH.	WHEEL CHAIR
WD.	WOOD
WDW.	WINDOW
WF	WIDE FLANGE
W.H.	WATER HEATER
W/O	WITHOUT
W.P.	WATERPROOF
W.S.	WOOD SCREW
WT.	WEIGHT
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

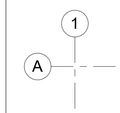
CODES AND ORGANIZATIONS

CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CMC	CALIFORNIA MECHANICAL CODE
CPC	CALIFORNIA PLUMBING CODE
DSA	DIVISION OF THE STATE ARCHITECT
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
NSF	NATIONAL SANITATION FOUNDATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE

TYPICAL SYMBOLS

SYMBOLS

- ∠ ANGLE
- ∅ DIAMETER OR ROUND
- ⊥ PERPENDICULAR
- & AND
- @ AT
- ℄ CENTER LINE
- # POUND OR NUMBER



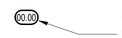
STATION LINE

DOOR SYMBOL

DOOR REFERENCE

WINDOW SYMBOL

WINDOW REFERENCE



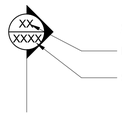
KEYNOTE SYMBOL

KEYNOTE REFERENCE, REFER TO KEYNOTE LIST ON SHEET

WORK POINT, CONTROL POINT OR DATUM POINT

WALL SYMBOL

WALL REFERENCE



SECTION

LOCATION ON SHEET REFERENCED

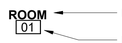
SHEET NUMBER WHERE SECTION IS LOCATED

DETAIL

LOCATION ON SHEET REFERENCED

SHEET NUMBER WHERE DETAIL IS LOCATED

ROOM IDENTIFICATION



ROOM NAME

ROOM NUMBER

CEILING HEIGHT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

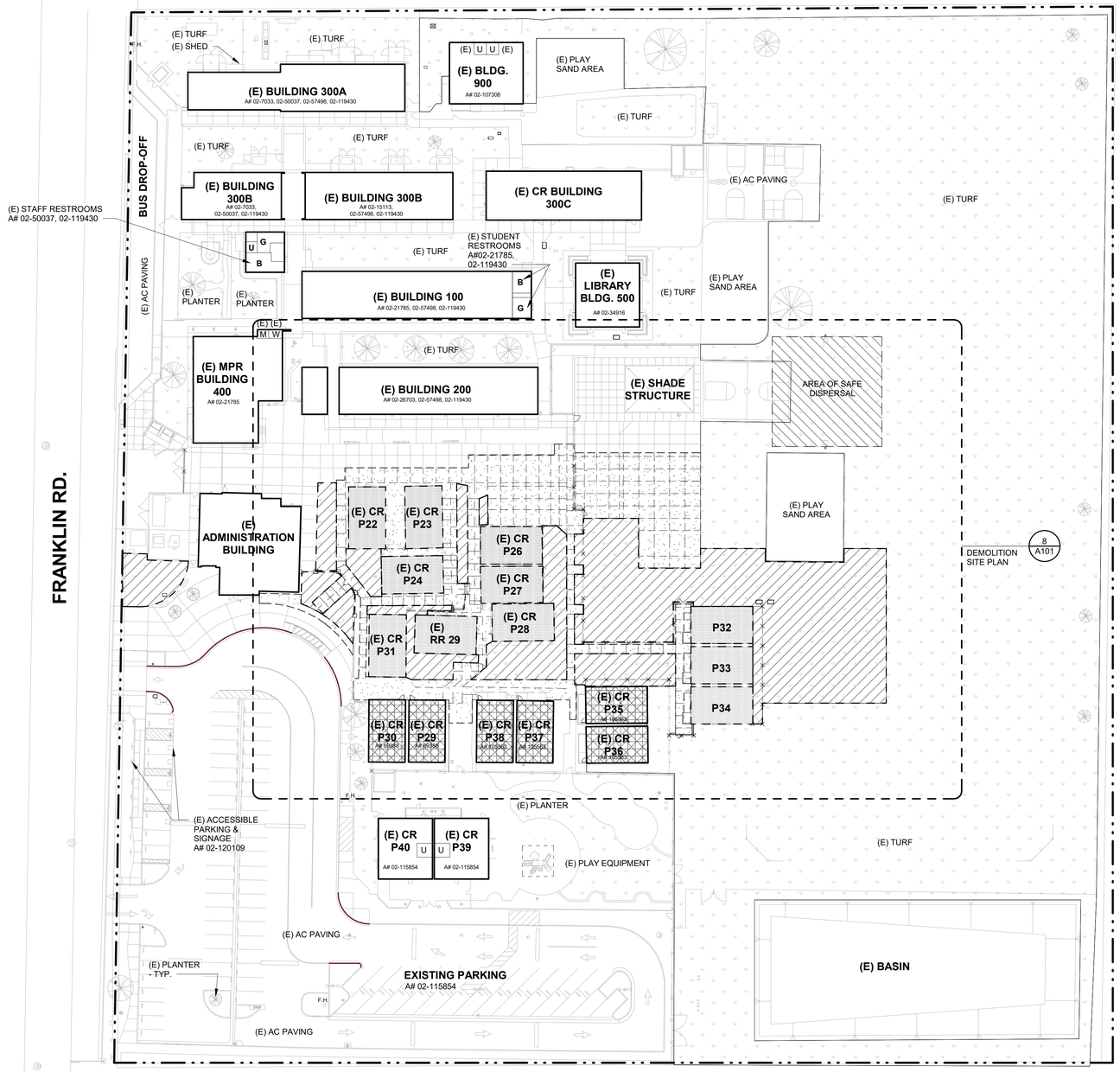
MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
LEGENDS AND ABBREVIATIONS

PROJECT NO.
23-12259.00

DRAWING
A000

PLOT DATE: 2/28/2025 11:24:26 AM



NORTH

KEYNOTES (00.00)

LEGEND

- **EXISTING BUILDING** NO WORK IN THIS SCOPE
- **EXISTING BUILDING** EXISTING BUILDING TO BE DEMOLISHED
- **EXISTING BUILDING** PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE SHEET A113
- EXISTING CONCRETE PAVEMENT TO REMAIN
- EXISTING TURF TO REMAIN
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TURF TO BE REMOVED
- EXISTING 6' HT. CHAIN LINK FENCE TO REMAIN
- EXISTING 6' HT. CHAIN LINK FENCE TO BE REMOVED
- (E) F.H. EXISTING FIRE HYDRANT
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- EXISTING 6' HT. DECORATIVE METAL FENCE TO BE REMOVED
- EXISTING 6' HT. DECORATIVE METAL FENCE TO REMAIN
- EXISTING TREE TO REMAIN

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY.

B. SEE CIVIL, LANDSCAPE, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. SCOPE MAY AFFECT AREAS NOT NOTED IN ARCHITECTURAL DRAWINGS.

C. REMOVE EXISTING SITE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO ACCOMMODATE NEW WORK. OVER EXCAVATE, FILL, AND COMPACT GRADES/SUBGRADE PER GEOTECHNICAL REPORT. PREPARE GROUND SURFACE FOR NEW WORK.

D. WHERE EXISTING FOOTING ARE TO BE REMOVED, CONTRACTOR SHALL BACKFILL AND COMPACT THE SOIL PER THE SPECIFICATIONS AND GEOTECHNICAL REPORT.

E. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL NEW AND EXISTING CONSTRUCTION DEBRIS AND CLEAR SITE FOR NEW SITE IMPROVEMENTS.

F. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE.

G. EXISTING TURF, PLANTS & TREES TO REMAIN AND PROTECT.
NOTE: THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY DAMAGED TURF, PLANT MATERIAL, OR TREES THAT ARE INDICATED TO REMAIN AND PROTECT. EXISTING TURF, PLANT MATERIAL OR TREES THAT ARE DAMAGED DUE TO CONSTRUCTION RELATED ACTIVITIES ASSOCIATED WITH THIS CONTRACT, VEHICLE DAMAGE, STRESS DUE TO LACK OF WATER OR OTHER DETERIORATION SHALL BE REPLACED. EXISTING AREAS INDICATED TO REMAIN ARE TO BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION PRIOR TO THE PROJECT'S COMPLETION AT NO ADDITIONAL COST TO THE DISTRICT.

H. DEMOLITION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33

I. DEMOLITION ITEMS INDICATED ON PLANS DESCRIBE AS SPECIFIC ITEM AND DO NOT CONSTITUTE THE COMPLETE EXTENT OF THE DEMOLITION REQUIRED FOR THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL PERFORM ALL DEMOLITION REQUIRED FOR THE INSTALLATION OF NEW IMPROVEMENTS. DEMOLITION TO BE COORDINATED IN THE FIELD WITH CIVIL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, FIRE ALARM DRAWINGS, ETC. AND ASSOCIATED TRADES.

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SELECTIVE DEMOLITION REQUIREMENTS.

2. COORDINATE WITH RESPECTIVE TRADES FOR THE EXTENT OF DEMOLITION REQUIRED TO PROPERLY INSTALL PROPOSED IMPROVEMENTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-35353 STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
OVERALL DEMOLITION SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
A100

OVERALL DEMOLITION SITE PLAN
1" = 40'-0"
8

PLOT DATE: 2/28/2025 11:24:29 AM
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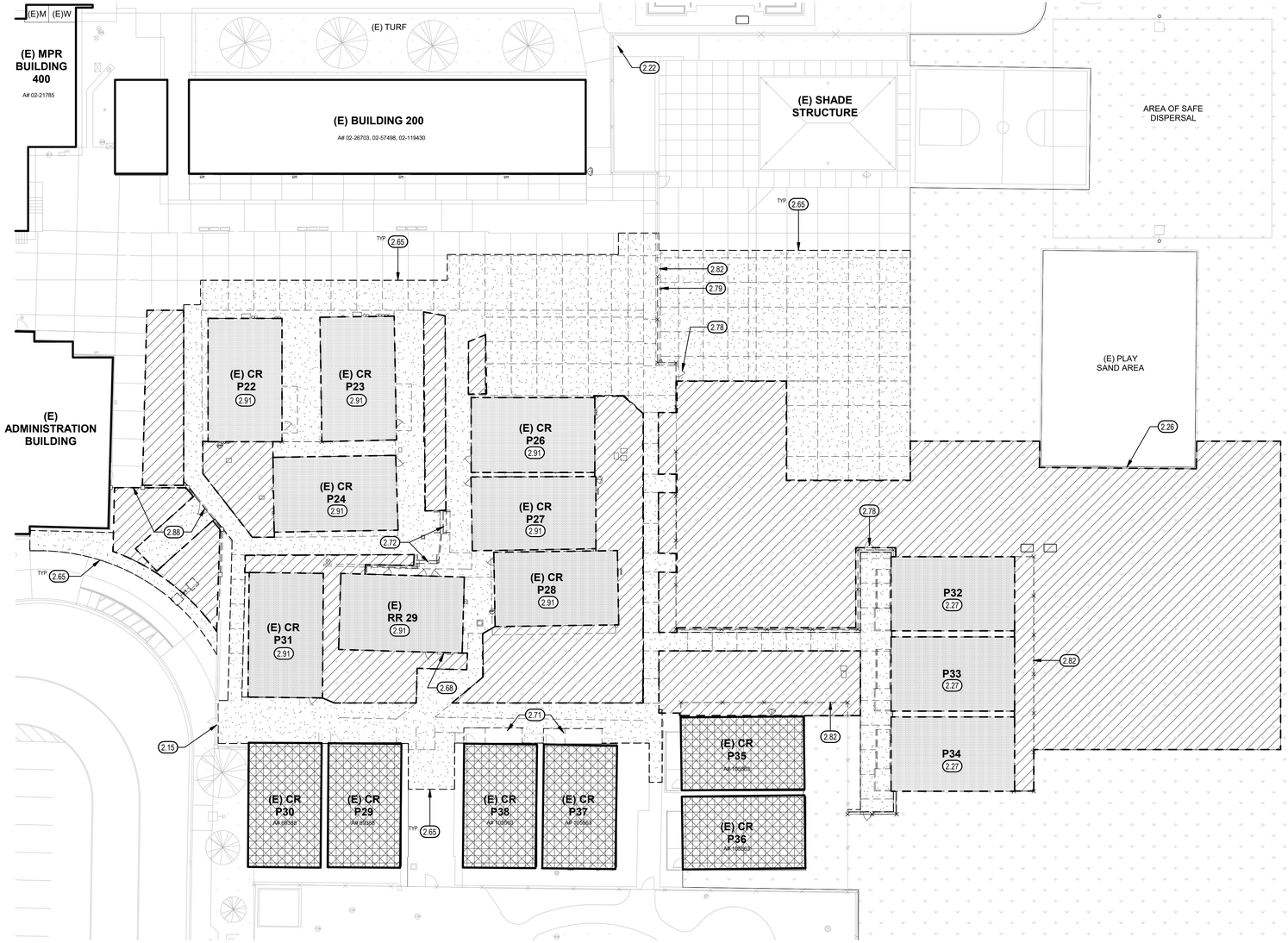

KEYNOTES (00.00)

2.15	EXISTING ACCESSIBLE GATE TO REMAIN, DSA A# 02-121019 INCREMENT 01
2.22	EXISTING 4' W/D. PEDESTRIAN GATE w/ PANIC HARDWARE TO REMAIN, DSA A#02-120780 ADDENDUM 1
2.26	EXISTING CONCRETE CURB/MOWSTRIP TO REMAIN, PROTECT FROM DAMAGE DURING CONSTRUCTION
2.27	TEMPORARY RELOCATABLE BUILDINGS P32, P33, & P34 TO REMAIN OPERATIONAL DURING CONSTRUCTION AND INSTALLATION OF NEW MODULAR CLASSROOM BUILDINGS. ONCE NEW BUILDINGS ARE OCCUPIED, THESE RELOCATBLES CAN BE REMOVED.
2.65	SAWCUT EXISTING CONCRETE TO THE NEAREST CONTROL OR EXPANSION JOINT. REFER TO CIVIL DRAWINGS FOR FURTHER CLARIFICATION
2.68	REMOVE EXISTING DRINKING FOUNTAIN
2.71	REMOVE EXISTING RAMPS AND RAILINGS
2.72	REMOVE EXISTING CONCRETE STEPS AND GUARD RAILING
2.78	REMOVE EXISTING CHAIN-LINK GATE, SEE CIVIL
2.79	REMOVE EXISTING CHAIN-LINK ROLLING GATE, SEE CIVIL
2.82	REMOVE EXISTING CHAIN-LINK FENCE, SEE CIVIL
2.88	REMOVE EXISTING DECORATIVE METAL GATE & FENCING FOR REUSE. SALVAGE FOR RE-INTALLATION AT NEW LOCATION. PROVIDE UNUSED PART TO DISTRICT MAINTENANCE. PROTECT ALL DECORATIVE FENCING EXISTING AND NEW FROM DAMAGE DURING CONSTRUCTION AND TRANSFER TO OWNER
2.91	REMOVE EXISTING MODULAR CLASSROOM,RAMP,GUARDRAIL AND DISCONNECT EXISTING UTILITIES

LEGEND

- **EXISTING BUILDING** — NO WORK IN THIS SCOPE
- **EXISTING BUILDING** — EXISTING BUILDING TO BE DEMOLISHED
- **EXISTING BUILDING** — PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE SHEET A113
- EXISTING CONCRETE PAVEMENT TO REMAIN
- EXISTING TURF TO REMAIN
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TURF TO BE REMOVED
- EXISTING 6' HT. CHAIN LINK FENCE TO REMAIN
- EXISTING 6' HT. CHAIN LINK FENCE TO BE REMOVED
- (E) F.H. — EXISTING FIRE HYDRANT
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- EXISTING 6' HT. DECORATIVE METAL FENCE TO BE REMOVED
- EXISTING 6' HT. DECORATIVE METAL FENCE TO REMAIN
- EXISTING TREE TO REMAIN

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY.

B. SEE CIVIL, LANDSCAPE, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. SCOPE MAY AFFECT AREAS NOT NOTED IN ARCHITECTURAL DRAWINGS.

C. REMOVE EXISTING SITE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO ACCOMMODATE NEW WORK, OVER EXCAVATE, FILL, AND COMPACT GRADES/SUBGRADE PER GEOTECHNICAL REPORT. PREPARE GROUND SURFACE FOR NEW WORK.

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H. DEMOLITION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33

I. DEMOLITION ITEMS INDICATED ON PLANS DESCRIBE AS SPECIFIC ITEM AND DO NOT CONSTITUTE THE COMPLETE EXTENT OF THE DEMOLITION REQUIRED FOR THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL PERFORM ALL DEMOLITION REQUIRED FOR THE INSTALLATION OF NEW IMPROVEMENTS. DEMOLITION TO BE COORDINATED IN THE FIELD WITH CIVIL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, FIRE ALARM DRAWINGS, ETC. AND ASSOCIATED TRADES.

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SELECTIVE DEMOLITION REQUIREMENTS.

2. COORDINATE WITH RESPECTIVE TRADES FOR THE EXTENT OF DEMOLITION REQUIRED TO PROPERLY INSTALL PROPOSED IMPROVEMENTS.

NORTH

ENLARGED DEMOLITION SITE PLAN

1" = 20'-0"

8

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT ★ CHRISTOPHER NIKKEL ★ C-35353 ★ STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
ENLARGED DEMOLITION SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
A101

PLOT DATE: 2/28/2025 11:24:32 AM
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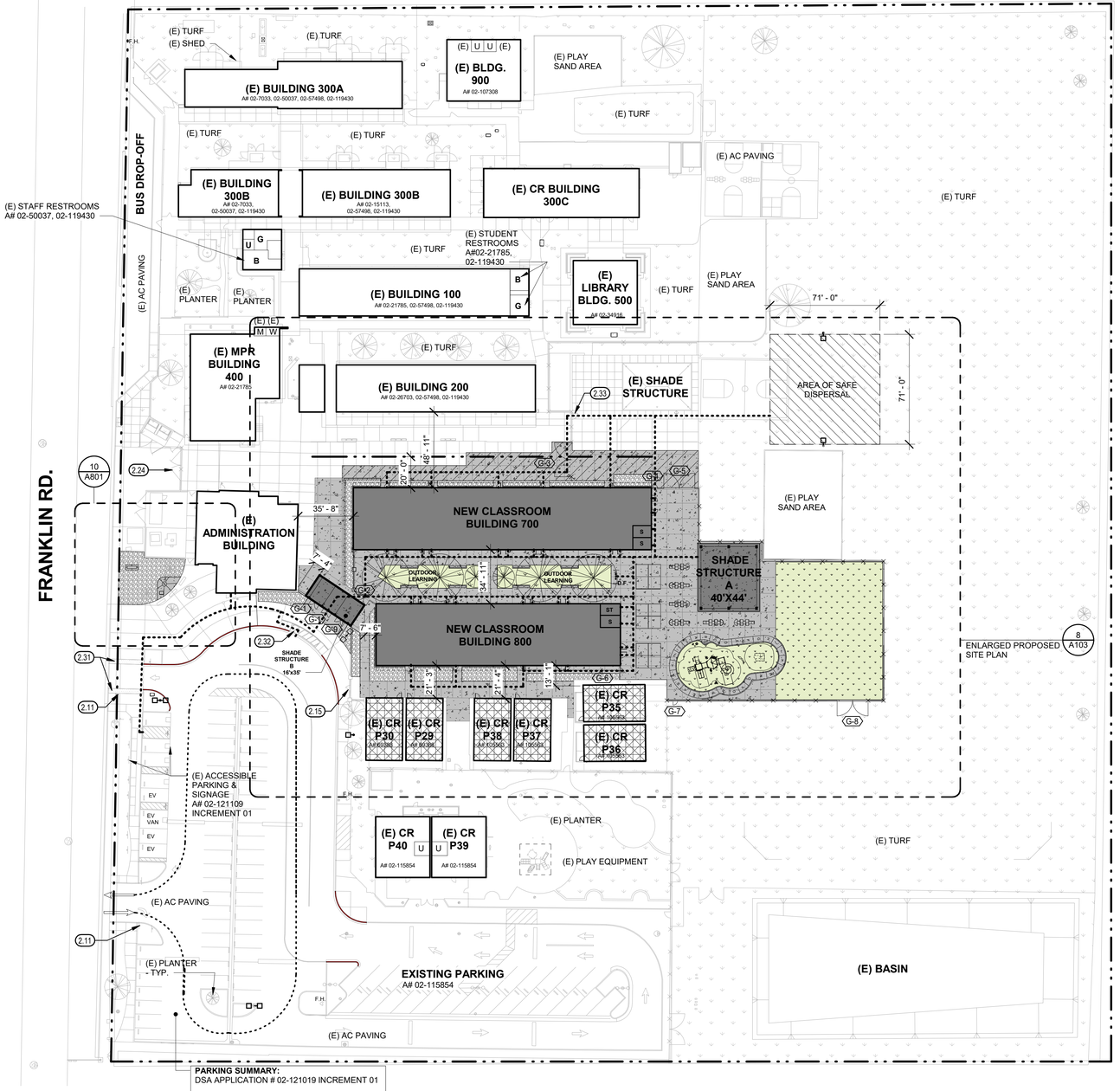

PARKING SUMMARY:
DSA APPLICATION # 02-121019 INCREMENT 01

84 TOTAL PARKING STALLS

4 REQUIRED ACCESSIBLE PARKING STALLS (1 IN 6 ACCESSIBLE STALLS TO BE VAN ACCESSIBLE)

4 ACTUAL NUMBER OF ACCESSIBLE STALLS PROVIDED (1 VAN ACCESSIBLE STALLS)

4 2022 ' CAL GREEN' EV STALLS REQUIRED PER TABLE 5.106.5.3.1

4 PROPOSED FUTURE EVCS

NORTH

GATE SCHEDULE

MARK	CLEAR WIDTH	HEIGHT	MATERIAL	GATE LEAF	DETAIL	REMARKS
G-1	6' - 0"	6' - 0"	DECORATIVE	DOUBLE	SEE CIVIL	A,C
G-2	8' - 0"	6' - 0"	DECORATIVE	DOUBLE	SEE CIVIL	A,C
G-3	20' - 0"	6' - 0"	CHAIN LINK	DOUBLE	SEE CIVIL	B
G-4	3' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	SINGLE	SEE CIVIL	A,C
G-5	20' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	DOUBLE	SEE CIVIL	B
G-6	3' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	SINGLE	SEE CIVIL	A,C
G-7	3' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	SINGLE	SEE CIVIL	B
G-8	20' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	DOUBLE	SEE CIVIL	B
G-9	6' - 0"	6' - 0"	DECORATIVE	DOUBLE	SEE CIVIL	A,C

REMARKS:
A. EGRESS GATE, PROVIDE PANIC HARDWARE, ACCESSIBLE
B. MAINTENANCE SERVICE GATE
C. ALL GATES TO HAVE LEVEL LANDINGS, 5'-0" PULL SIDE & 4'-0" PUSH SIDE, SEE 8 / A802 FOR ACCESSIBLE MANUVERING CLEARANCES

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY.

B. REFER TO CIVIL, LANDSCAPE, PLUMBING & ELECTRICAL FOR UTILITY INFORMATION. CONTRACTOR TO COORDINATE ALL TRADES TO MAINTAIN PROPER CLEARANCES & AVOID CONFLICTS.

C. EXISTING UNDERGROUND UTILITIES & IMPROVEMENTS ARE SHOWN IN THEIR APPROX. LOCATIONS BASED UPON RECORD INFO. AVAILABLE TO THE ARCHITECT AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD & NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFO. SHOWN. THE SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A), 7-800-642-2444.

D. PROTECT EXISTING TURF, PLANT & TREES TO REMAIN. THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY EXISTING TURF, PLANT MATERIALS OR TREES THAT ARE TO REMAIN AND BE PROTECTED AND SHALL INCLUDE BUT NOT LIMITED TO: EXISTING TURF, PLANT MATERIAL OR TREES THAT ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES, VEHICLE DAMAGE, AND STRESS DUE TO LACK OF WATER OR OTHER DETERIORATION. THE EXISTING AREAS TO REMAIN ARE TO BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION PRIOR TO THE PROJECT AT NO ADDITIONAL COST TO THE DISTRICT. THIS INCLUDES DAMAGE THAT MAY OCCUR AT ANY AREA OF THE CAMPUS DUE TO CONSTRUCTION RELATED ACTIVITIES ASSOCIATED WITH THIS CONTRACT.

E. PROPERTY DIMENSIONS AS SHOWN ARE BASED ON RECORD INFO. & SHOULD BE FIELD VERIFIED BY A PROPERTY SURVEY PRIOR TO CONSTRUCTION.

F. EXTERIOR CONC. LANDINGS AT DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN DOORWAY THRESHOLD WITH 1/4 INCH PER FOOT SLOPE MAX.

G. SEE CIVIL FOR A.C. & CONC. PAVING SECTIONS, AND CURB DETAILS.

H. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC AND CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION"

I. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE.

J. FINISH GRADE SHALL HAVE A 1.5% SLOPE AWAY FROM BLDG. FOR A DISTANCE NOT LESS THAN 5'-0" FROM BUILDING.

K. NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

L. ERRC IS NOT REQUIRED ON THIS PROJECT PER LFA.

KEYNOTES

2.11	EXISTING TOWAWAY SIGN TO REMAIN, DSA A#02-121019 INCREMENT 01
2.15	EXISTING ACCESSIBLE GATE TO REMAIN, DSA A# 02-121019 INCREMENT 01
2.24	EXISTING FIRE ACCESS GATE, KNOX BOX, EMERGENCY SERVICE KEY STORAGE, DSA A# 121019 INCREMENT 01
2.31	EXISTING DETECTABLE WARNING SURFACE, DSA A#02-121019 INCREMENT 01
2.32	EXISTING ACCESSIBLE DROP-OFF AREA, DSA A#02-121019 INCREMENT 01
2.33	EXISTING ACCESSIBLE GATE TO REMAIN, DSA A# 02-120780

LEGEND

- **EXISTING BUILDING** — NO WORK IN THIS SCOPE
- **PROPOSED NEW WORK** — NEW BUILDING AND STRUCTURE IN SCOPE
- **EXISTING BUILDING** — PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE SHEET A113
- EXISTING CONCRETE PAVEMENT TO REMAIN
- NEW CONCRETE PAVING, SEE CIVIL
- NEW HEAVY DUTY CONCRETE, SEE CIVIL
- EXISTING TURF TO REMAIN
- NEW TURF, SEE LANDSCAPE
- NEW SYNTHETIC TURF, SEE CIVIL
- NEW AGGREGATE BASE ROCK
- S — NEW STUDENT RESTROOM
- ST — NEW STAFF RESTROOM
- (E) F.H. — EXISTING FIRE HYDRANT
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- EXISTING 6' HT. DECORATIVE METAL FENCE TO REMAIN
- EXISTING 6' HT. CHAIN LINK FENCE TO REMAIN
- NEW 6' HT. DECORATIVE METAL FENCE, SEE CIVIL
- NEW CHAIN LINK FENCE, SEE CIVIL
- EXISTING TREE TO REMAIN
- NEW TREE, SEE LANDSCAPE
- ACCESSIBLE ROUTE, 2% MAX SLOPE ALL DIRECTIONS UNLESS RAMP OR SLOPED WALK DESIGNATES OTHER COMPLIANCE PER (2022 C.B.C. SECTION 11B - 206)
- ALTERNATE EMERGENCY VEHICLE AND PERSONNEL ACCESS ACCEPTED FOR PROVIDING FIRE SUPPRESSION AND PROTECTION OF LIFE AND PROPERTY
- SAFE DISPERSAL AREA

THE ACCESSIBLE ROUTE IS A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES OF AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES. ACCESSIBLE ROUTES SHALL COMPLY WITH CBC 11B-402. IN GENERAL, EXTERIOR ACCESSIBLE ROUTES SHALL COMPLY WITH THE FOLLOWING: SHALL BE STABLE, FIRM, AND SLIP RESISTANT; HAVE A 1:20 MAXIMUM RUNNING SLOPE FOR WALKS; HAVE A 1:12 MAXIMUM SLOPE FOR RAMPS AND CURB RAMPS; HAVE A 1/4:12 MAXIMUM CROSS SLOPE; HAVE A 48" MINIMUM WIDTH; HAVE NO VERTICAL OFFSETS GREATER THAN 1/4"; OFFSETS BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT EXCEEDING 1V:2H; HAVE NO OPENINGS ALLOWING THE PASSAGE OF A 1/2" DIAMETER SPHERE; ELONGATED OPENINGS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL; HAVE A MINIMUM 6" HIGH CURB OR GUARDRAIL AT EDGES WHERE THE DROP OFF EXCEEDS 4" EXCEPT WHERE ADJACENT TO VEHICULAR WAYS; BE FREE OF ELEMENTS PROJECTING MORE THAN 4" FROM WALLS BETWEEN 27" AND 80" ABOVE THE WALKING SURFACE; AND HAVE 80" MINIMUM VERTICAL CLEARANCE.

DESIGN PROFESSIONAL IN 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 BEEN 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 THRESHOLD 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 NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

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LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-35353 REN. 08-31-2026 STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
OVERALL PROPOSED SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
A102

PLOT DATE: 2/28/2025 11:24:34 AM

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OVERALL PROPOSED SITE PLAN

1" = 40'-0" | 8

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GATE SCHEDULE

MARK	CLEAR WIDTH	HEIGHT	MATERIAL	GATE LEAF	DETAIL	REMARKS
G-1	6' - 0"	6' - 0"	DECORATIVE	DOUBLE	SEE CIVIL	A,C
G-2	8' - 0"	6' - 0"	DECORATIVE	DOUBLE	SEE CIVIL	A,C
G-3	20' - 0"	6' - 0"	CHAIN LINK	DOUBLE	SEE CIVIL	B
G-4	3' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	SINGLE	SEE CIVIL	A,C
G-5	20' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	DOUBLE	SEE CIVIL	B
G-6	3' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	SINGLE	SEE CIVIL	A,C
G-7	3' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	SINGLE	SEE CIVIL	B
G-8	20' - 0"	4' - 0"	CHAIN LINK / POWDER COATED	DOUBLE	SEE CIVIL	B
G-9	6' - 0"	6' - 0"	DECORATIVE	DOUBLE	SEE CIVIL	A,C

REMARKS:
A. EGRESS GATE, PROVIDE PANIC HARDWARE, ACCESSIBLE
B. MAINTENANCE SERVICE GATE
C. ALL GATES TO HAVE LEVEL LANDINGS, 5'-0" PULL SIDE & 4'-0" PUSH SIDE, SEE 8 / A800 FOR ACCESSIBLE MANUVERING CLEARANCES

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY.

B. REFER TO CIVIL, LANDSCAPE, PLUMBING & ELECTRICAL FOR UTILITY INFORMATION. CONTRACTOR TO COORDINATE ALL TRADES TO MAINTAIN PROPER CLEARANCES & AVOID CONFLICTS.

C. EXISTING UNDERGROUND UTILITIES & IMPROVEMENTS ARE SHOWN IN THEIR APPROX. LOCATIONS BASED UPON RECORD INFO. AVAILABLE TO THE ARCHITECT AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD & NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFO, SHOWN. THE SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A), 7-800-642-2444.

D. PROTECT EXISTING TURF, PLANT & TREES TO REMAIN. THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY EXISTING TURF, PLANT MATERIALS OR TREES THAT ARE TO REMAIN AND BE PROTECTED AND SHALL INCLUDE BUT NOT LIMITED TO: EXISTING TURF, PLANT MATERIAL OR TREES THAT ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES, VEHICLE DAMAGE, AND STRESS DUE TO LACK OF WATER OR OTHER DETERIORATION. THE EXISTING AREAS TO REMAIN ARE TO BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION PRIOR TO THE PROJECT AT NO ADDITIONAL COST TO THE DISTRICT. THIS INCLUDES DAMAGE THAT MAY OCCUR AT ANY AREA OF THE CAMPUS DUE TO CONSTRUCTION RELATED ACTIVITIES ASSOCIATED WITH THIS CONTRACT.

E. PROPERTY DIMENSIONS AS SHOWN ARE BASED ON RECORD INFO. & SHOULD BE FIELD VERIFIED BY A PROPERTY SURVEY PRIOR TO CONSTRUCTION.

F. EXTERIOR CONC. LANDINGS AT DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN DOORWAY THRESHOLD WITH 1/4 INCH PER FOOT SLOPE MAX.

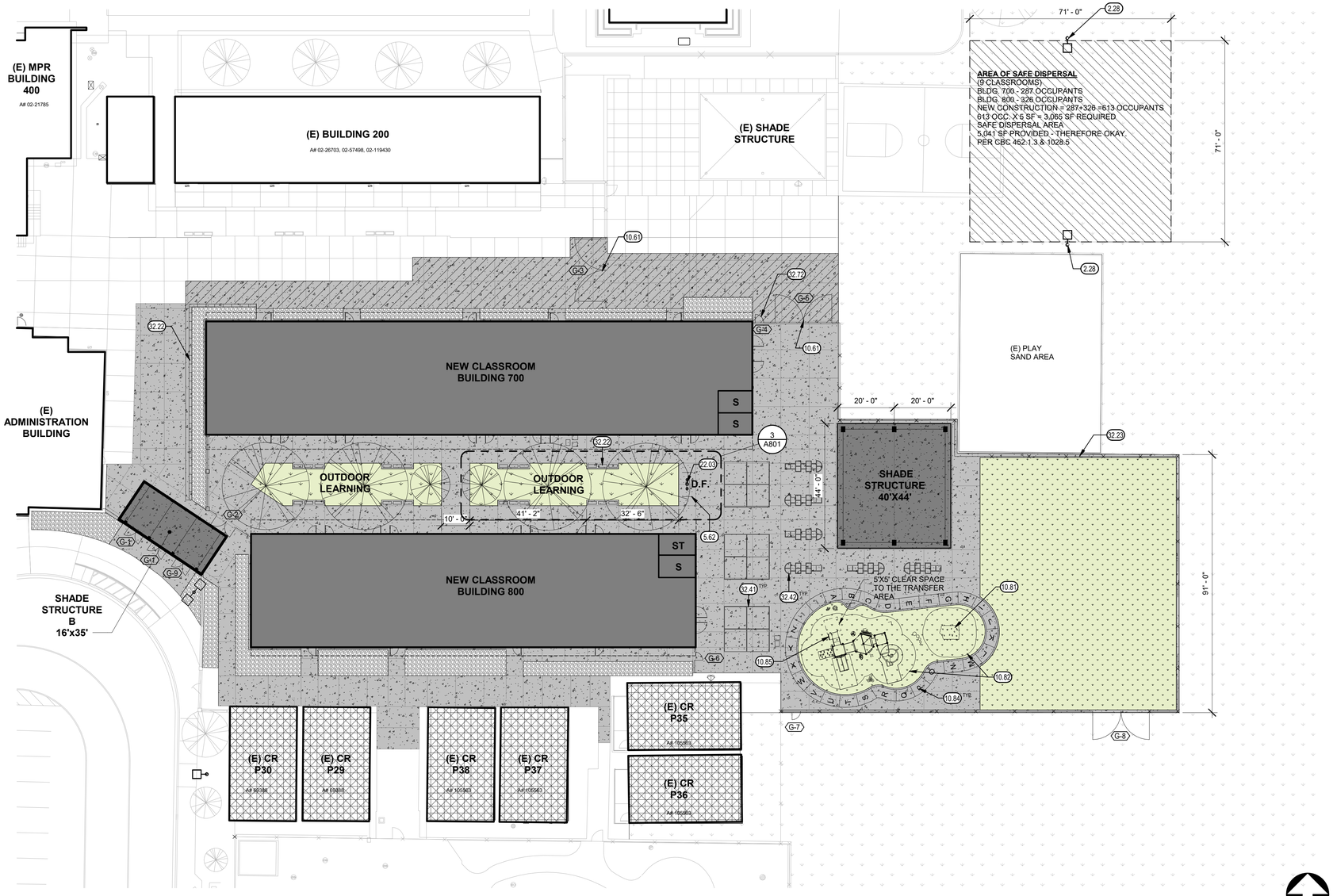
G. SEE CIVIL FOR A.C. & CONC. PAVING SECTIONS, AND CURB DETAILS.

H. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC AND CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION"

I. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE.

J. FINISH GRADE SHALL HAVE A 1.5% SLOPE AWAY FROM BLDG. FOR A DISTANCE NOT LESS THAN 5'-0" FROM BUILDING.

K. NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, SHALL BE PROVIDED TO THE SCHOOL DISTRICT.



KEYNOTES (00.00)

2.28	EXISTING LIGHT POLE TO REMAIN, DSA #02-121019 INCREMENT 01
5.62	GUARDRAILS, SEE 4 / A801
10.61	FIRE ACCESS GATE, KNOX BOX, EMERGENCY SERVICES KEY STORAGE
10.81	AGE APPROPRIATE PLAY EQUIPMENT, OWNER FURNISHED, CONTRACTOR INSTALLED SEE SHEETS PE101, PE 102, & PE103
10.82	PLAY EQUIPMENT, FALL LINE
10.84	PAINTED 'ABC' TRICYCLE TRACK, (5) TOTAL PAINT COLORS, FINAL COLORS TO BE SELECTED BY ARCHITECT, SEGMENTS COLORS TO BE; BLUE, RED, GREEN, & PURPLE. 24" LETTERS, COLOR=WHITE
10.85	PROVIDE CONTRASTING STRIP AT EACH STEP
22.03	ACCESSIBLE HIGH+LOW PEDISTAL DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE CIVIL
32.22	CONCRETE SEATING, SEE CIVIL
32.23	CONCRETE MOWSTRIP AT FENCING, SEE CIVIL
32.41	PAINTED FOUR SQUARE COURT, SEE CIVIL
32.42	PAINTED HOPSCOTCH COURT, SEE CIVIL
32.72	EGRESS GATE WITH PANIC HARDWARE, SEE CIVIL

LEGEND

- **EXISTING BUILDING** — NO WORK IN THIS SCOPE
- **PROPOSED NEW WORK** — NEW BUILDING OR STRUCTURE IN SCOPE
- **EXISTING BUILDING** — PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE SHEET A113
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- NEW AGGREGATE BASE ROCK
- (E) F.H. — EXISTING FIRE HYDRANT
- PROPERTY LINE
- ASSUMED PROPERTY LINE
- NEW 6' HT. DECORATIVE METAL FENCE
- EXISTING 6' HT. DECORATIVE METAL FENCE TO REMAIN
- EXISTING 6' HT. CHAIN LINK FENCE TO REMAIN
- NEW 6' HT. CHAIN LINK FENCE
- EXISTING TREE TO REMAIN
- NEW TREE, SEE LANDSCAPE
- SAFE DISPERSAL AREA

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VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
ENLARGED PROPOSED SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
A103

PLOT DATE: 2/28/2025 11:24:36 AM

NORTHEAST

EAST

SOUTHEAST

SOUTH

NORTHWEST

BUILDINGS P29 AND 30 — 5

NORTH

NORTHEAST

SOUTH

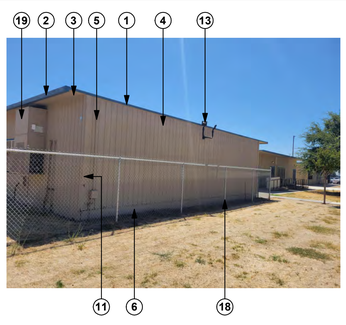
SOUTHWEST

BUILDINGS P37 AND P38 — 6

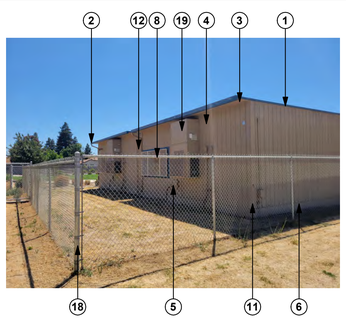
WEST

NORTHWEST

BUILDINGS P37 AND P38 — 7

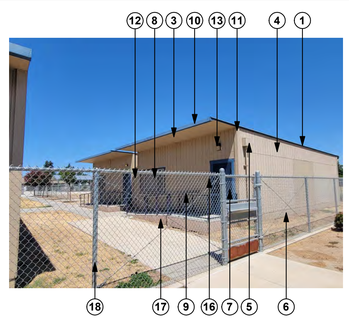


NORTH



NORTHEAST

SOUTH



SOUTHWEST

NORTHWEST

BUILDINGS P35 AND P36 — 8

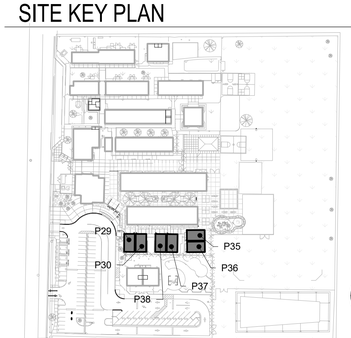
KEYNOTES

1. EXISTING ROOF FLASHING: INSPECT ALL FLASHING FOR ANY DAMAGES OR SEPARATED JOINTS, REPAIR AS NECESSARY TO INDUSTRY STANDARD. THIS INCLUDES THE SPACE BETWEEN BUILDINGS. FLASHING TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
2. EXISTING RAIN GUTTERS AND LEADERS/DOWNSPOUTS. INSPECT FOR DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED GUTTERS OR LEADERS/DOWNSPOUTS CONTAINING IMPACT DAMAGES, HOLES. GUTTERS AND LEADERS/DOWNSPOUTS TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
3. EXISTING EXTERIOR SOFFIT WOOD PANELING. INSPECT FOR ANY DAMAGES.REPAIR AND OR REPLACE ANY DAMAGED SOFFIT PANELS CONTAINING IMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT TO PROVIDE A COMPLETE BUILDING ENVELOPE. EXTERIOR TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
4. EXISTING EXTERIOR WALL SIDING: INSPECT FOR ANY DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED SIDING PANELS CONTAINING IMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT TO PROVIDE A COMPLETE BUILDING ENVELOPE. EXTERIOR TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT. WALLS BETWEEN BUILDINGS TO BE INCLUDED IN SCOPE, ALL (4) SIDES.
5. EXISTING UTILITY CONDUIT AND BOXES: INSPECT EXISTING MOUNTING HARDWARE AND REPLACE IF LOOSE OR DAMAGED. ALL EXPOSED CONDUIT AND UTILITY BOXES TO BE PAINTED TO MATCH ADJACENT AND OR MOUNTED TO SURFACES. COLOR TO BE SELECTED BY ARCHITECT.
6. EXISTING BUILDING SKIRT: INSPECT FOR ANY DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED SKIRTS CONTAINING IMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT TO PROVIDE A COMPLETE BUILDING ENVELOPE. SKIRTS TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT. SKIRTS BETWEEN BUILDINGS TO BE INCLUDED IN SCOPE, ALL (4) SIDES.
7. EXISTING DOOR AND WOOD TRIM: INSPECT FOR ANY DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED TRIM CONTAININGIMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT TO PROVIDE A COMPLETE BUILDING ENVELOPE. DOOR AND TRIM TO BE PAINTED. COLOR SELECTED BY ARCHITECT. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
8. EXISTING WINDOW METAL SCREEN: REMOVE EXISTING EXTRUDED METAL SCREEN TO BE PAINTED OFF BUILDING FRONT AND BACK THEN REPLACED AFTER PAINTING OF THE BUILDINGS EXTERIOR AND WINDOW TRIM. COLOR TO BE SELECTED BY ARCHITECT.
9. EXISTING RAMP RAILING: RAILING TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
10. EXISTING BUILDING FASCIA: INSPECT ALL FASCIA FOR DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED FASCIA BOARDS CONTAINING IMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT TO PROVIDE ACOMPLETE BUILDING ENVELOPE. FASCIAS TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT. FASCIA BETWEEN BUILDINGS TO BE INCLUDED IN SCOPE, ALL (4) SIDES.
11. EXISTING BUILDING WOOD TRIM: INSPECT FOR DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED WOOD TRIM CONTAINING IMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT TO PROVIDE A COMPLETE BUILDING ENVELOPE. WOOD TRIM TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT. WOOD TRIM BETWEEN BUILDINGS TO BE INCLUDED IN SCOPE, ALL (4) SIDES.
12. EXISTING BUILDING CLOSURE PANELS: INSPECT FOR DAMAGES. REPAIR AND OR REPLACE ANY DAMAGED CLOSURE PANELS CONTAINING IMPACT DAMAGES, MOLD, HOLES, ROT/DRY ROT. CLOSURE PANELS TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
13. EXISTING EXTERIOR LIGHT FIXTURES AND SPEAKERS WILL NOT RECEIVE NEW PAINT. ITEMS ARE TO BE PROTECTED DURING PAINTING INSTALLATIONS.
14. EXISTING DECORATIVE METAL FENCING NOT IN PAINT SCOPE. FENCING SHALL BE PROTECTED DURING PAINTING INSTALLATIONS.
15. EXISTING SPECIALITY SIGNAGE: SIGNAGE TO BE REMOVED, PROTECTED AND REINSTALLED IN THE SAME LOCATION AFTER PAINTING.
16. EXISTING ROOM SIGNAGE TO BE REMOVED AND RETURNED TO THE DISTRICT. NEW SIGNAGE WILL BE PROVIDED. SEE PLANS FOR NEW SIGNAGE.
17. EXISTING RAMP WOOD SKIRTS: REMOVE AND REPLACE WITH NEW 1/4" PLYWOOD TO MATCH EXISTING. SKIRTS TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
18. EXISTING CHAIN LINK FENCE NOT IN PAINT SCOPE. FENCING SHALL BE PROTECTED DURING PAINTING INSTALLATIONS.
19. EXISTING MECHANICAL UNITS: UNITS TO BE PAINTED TO MATCH THE BUILDING. PROTECT OPENINGS FROM OVER SPRAY CAUSING CLOGGED FILTERS.
20. EXISTING RAMP AND RAILING: RAMP AND RAILING TO BE REMOVED AND ACCOMMODATE NEW WORK.

GENERAL NOTES

1. PROTECT ALL EXISTING BUILDING TAGS, LABELS, ELECTRICAL TAGS, UTILITY TAGS, AND MECHANICAL LABELS FROM PAINT OVER-SPRAY. TAGS AND LABELS SHALL NOT BE PAINTED OVER.
2. NOTIFY ARCHITECT AND SCHOOL DISTRICT OF ANY UNFORSEEN CONDITIONS PRIOR TO REPAIR OR PAINT. ARCHITECT OR DISTRICT WILL DIRECT CONTRACTOR HOW TO PROCEED.
3. PROTECT ALL DOOR HARDWARE FROM OVER-SPRAY. HARDWARE SHALL NOT BE PAINTED OVER. SEE DOOR SCHEDULE FOR INFORMATION.
4. PROTECT ALL EXTERIOR AND INTERIOR MATERIALS FROM PAINT OVER-SPRAY. THIS INCLUDES ALL EXISTING EXTERIOR AND INTERIOR MATERIALS WITHIN AND OUT OF SCOPE LIKE CONCRETE, FENCING, AND PLANT MATERIALS.

SITE KEY PLAN



NORTH

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TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
PAINTING ELEVATIONS

PROJECT NO.
23-12259.00

DRAWING
A113

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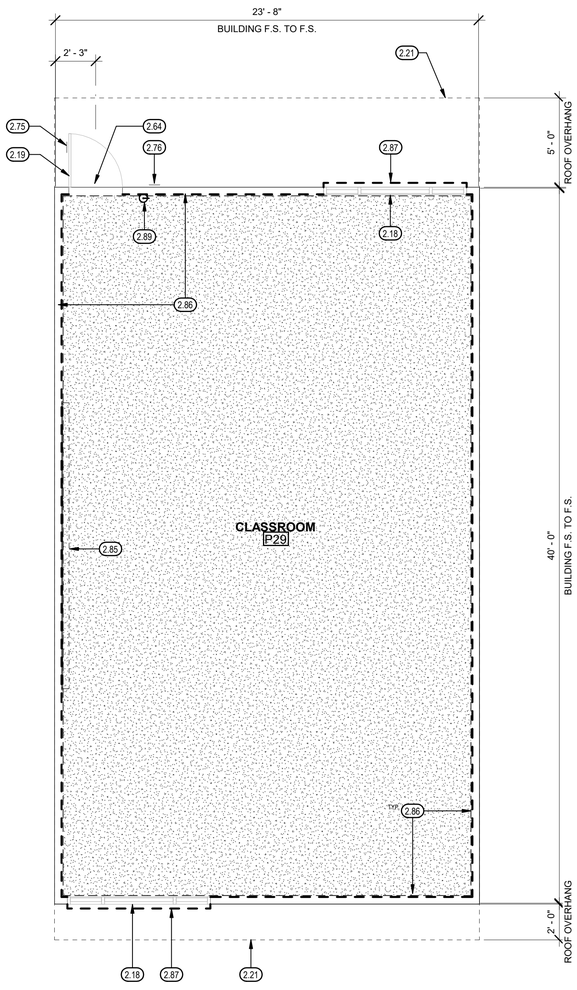
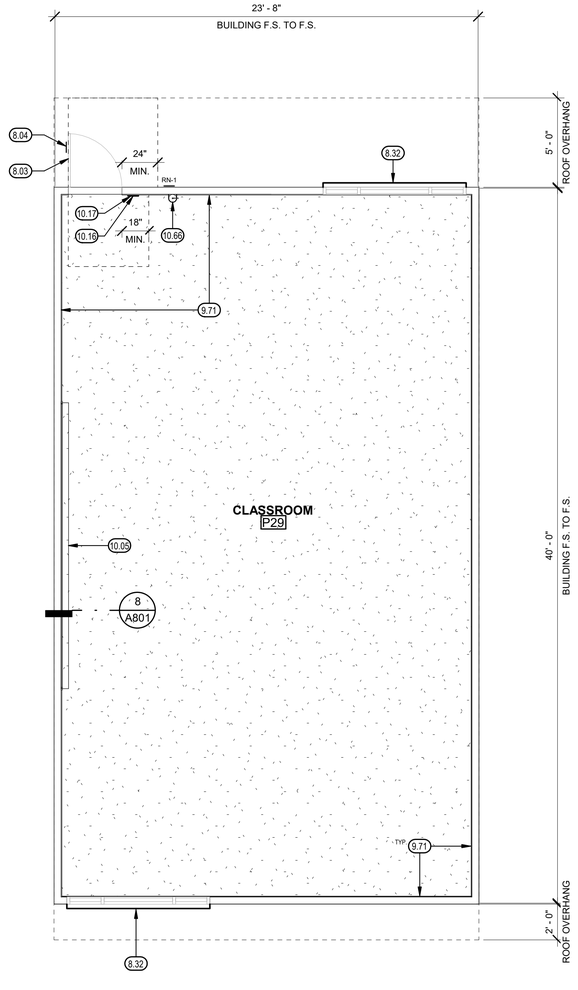
PLOT DATE: 2/28/2025 11:24:40 AM



NORTH

DEMO PLAN - CLASSROOM BLDG. P29 1/4" = 1'-0" | 16



NORTH

PROPOSED MODERNIZATION PLAN - CLASSROOM BLDG. P29 1/4" = 1'-0" | 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.64	REMOVE AND REPLACE EXISTING THRESHOLD AND SALVAGE DOOR FOR REINSTALLATION
2.75	REMOVE EXISTING DOOR HARDWARE
2.76	REMOVE EXISTING WALL SIGNAGE
2.85	REMOVE EXISTING WHITEBOARD AND SALVAGE FOR REINSTALLATION
2.86	REMOVE EXISTING TACKBOARD WALL FINISH AND RTB BASE TO ACCOMMODATE FOR NEW WORK
2.87	REMOVE EXISTING WINDOW SCREEN FOR PAINTING AND SALVAGE FOR REINSTALLATION
2.89	REMOVE EXISTING FIRE EXTINGUISHER
8.03	REINSTALL SALVAGED DOOR
8.04	NEW DOOR HARDWARE: EXISTING DOOR TO RECEIVE NEW DOOR HARDWARE, SEE DOOR SCHEDULE
8.32	REINSTALL SALVAGED WINDOW SCREEN AFTER PAINT, SEE SHEET A113
9.71	NEW TACKBOARD FINISH, SEE INTERIOR ELEVATIONS
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

WALL LEGEND

(E) 2x4 WOOD STUD @ 16" O.C.

LEGEND

REMOVE EXISTING CARPET TO ACCOMMODATE NEW WORK

NEW CARPET ON EXISTING FLOOR SLAB, ARCHITECT TO SELECT FINISH

TRD-U WALL SIGNAGE, SEE 3 / A800

ACCESSIBLE DOOR MANEUVERING CLEARANCE, SEE 8 / A800

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. ALL DIMENSIONS TO FACE OF STUD, U.N.O.

C. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE OF WALL FINISH.

D. PROVIDE WALL MOUNTED WHITEBOARDS WITH CONCEALED BLOCKING PER PLANS, TYP. SEE 12 / A800

E. ALL INTERIOR AND EXTERIOR SIGNAGE BY SITE CONTRACTOR.

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LICENSED ARCHITECT ★ CHRISTOPHER B. NIKKEL ★ C - 15363 ★ STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FLOOR PLANS - CLASSROOM BLDG. P29 - ALT. BID 2

PROJECT NO.
23-12259.00

DRAWING
A200

\\tetr-file1\Users\cesar.silva_TETR\Documents\12259-A-MCSD-FRANKLIN ES.PHASE 3_cesar.sil.rvt

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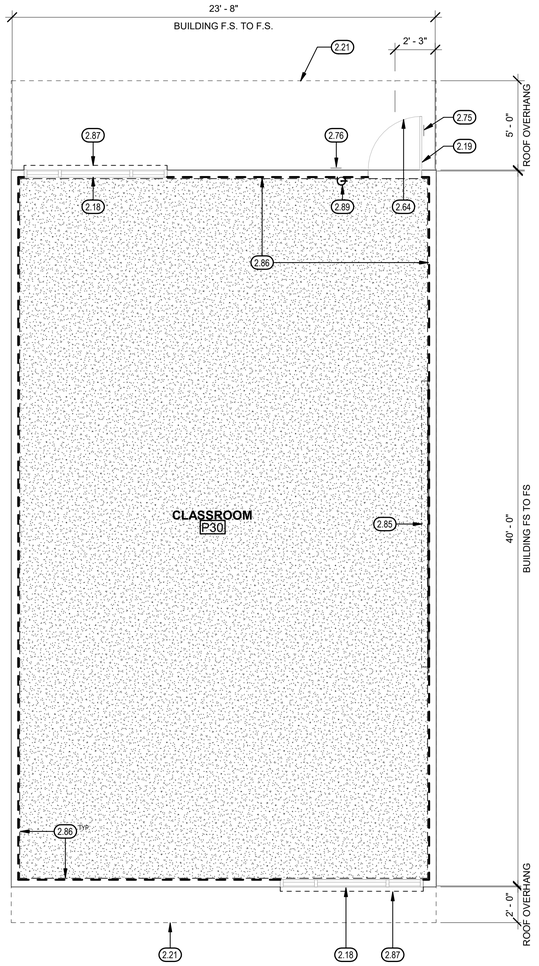
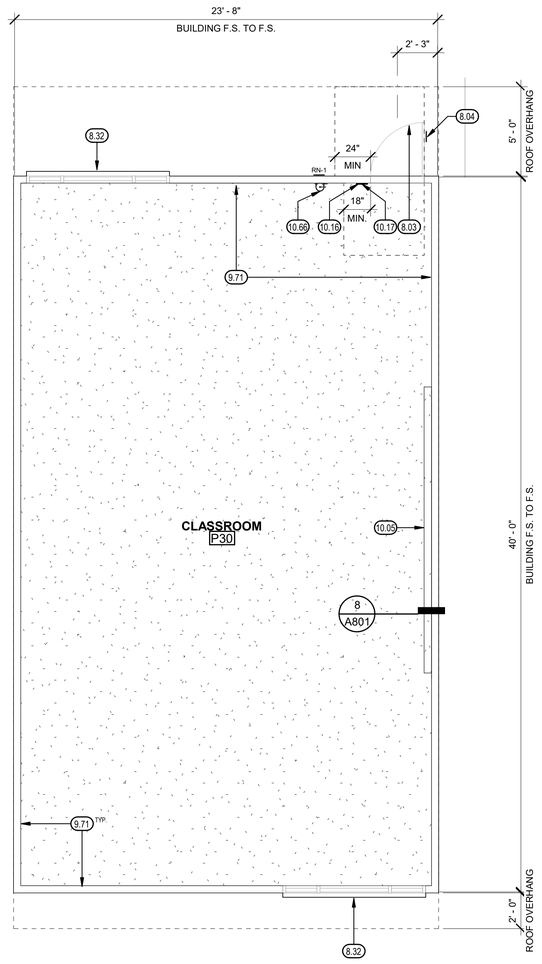


NORTH

DEMO PLAN - CLASSROOM BLDG. P30 1/4" = 1'-0" 16



NORTH

PROPOSED PLAN - CLASSROOM BLDG. P30 1/4" = 1'-0" 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.64	REMOVE AND REPLACE EXISTING THRESHOLD AND SALVAGE DOOR FOR REINSTALLATION
2.75	REMOVE EXISTING DOOR HARDWARE
2.76	REMOVE EXISTING WALL SIGNAGE
2.85	REMOVE EXISTING WHITEBOARD AND SALVAGE FOR REINSTALLATION
2.86	REMOVE EXISTING TACKBOARD WALL FINISH AND RTB BASE TO ACCOMMODATE FOR NEW WORK
2.87	REMOVE EXISTING WINDOW SCREEN FOR PAINTING AND SALVAGE FOR REINSTALLATION
2.89	REMOVE EXISTING FIRE EXTINGUISHER
8.03	REINSTALL SALVAGED DOOR
8.04	NEW DOOR HARDWARE: EXISTING DOOR TO RECEIVE NEW DOOR HARDWARE, SEE DOOR SCHEDULE
8.32	REINSTALL SALVAGED WINDOW SCREEN AFTER PAINT, SEE SHEET A113
9.71	NEW TACKBOARD FINISH, SEE INTERIOR ELEVATIONS
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

WALL LEGEND

(E) 2x4 WOOD STUD @ 16" O.C.

LEGEND

REMOVE EXISTING CARPET TO ACCOMMODATE NEW WORK

NEW CARPET ON EXISTING FLOOR SLAB. ARCHITECT TO SELECT FINISH

TRD-U 8 — WALL SIGNAGE, SEE 3 / A800

ACCESSIBLE DOOR MANEUVERING CLEARANCE, SEE 8 / A800

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. ALL DIMENSIONS TO FACE OF STUD, U.N.O.

C. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE OF WALL FINISH.

D. PROVIDE WALL MOUNTED WHITEBOARDS WITH CONCEALED BLOCKING PER PLANS, TYP. SEE 12 / A800

E. ALL INTERIOR AND EXTERIOR SIGNAGE BY SITE CONTRACTOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

CHRISTOPHER A. NIKKEL LICENSED ARCHITECT STATE OF CALIFORNIA C-45363 Exp. 08-31-26

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

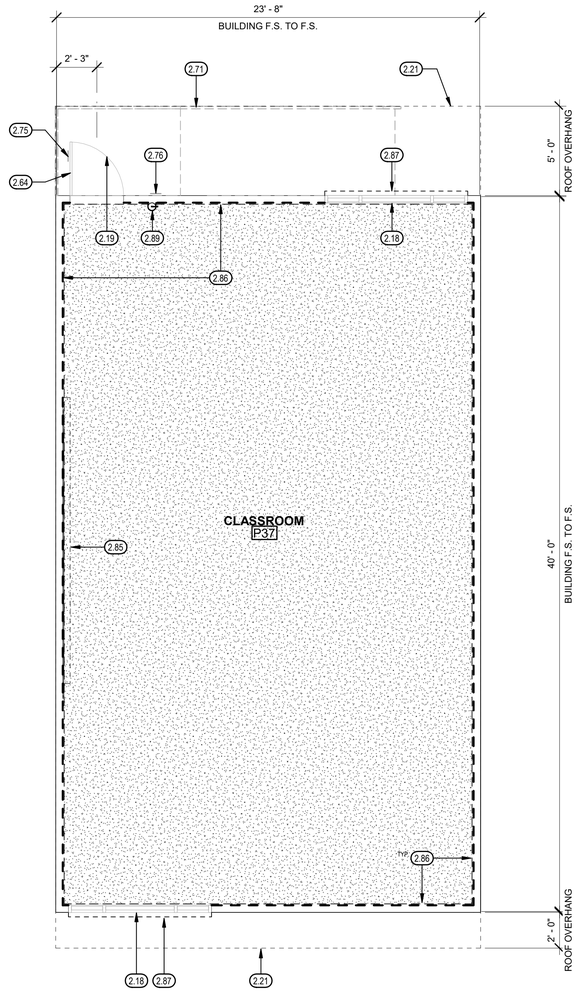
MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FLOOR PLANS - CLASSROOM BLDG. P30 - ALT. BID 2

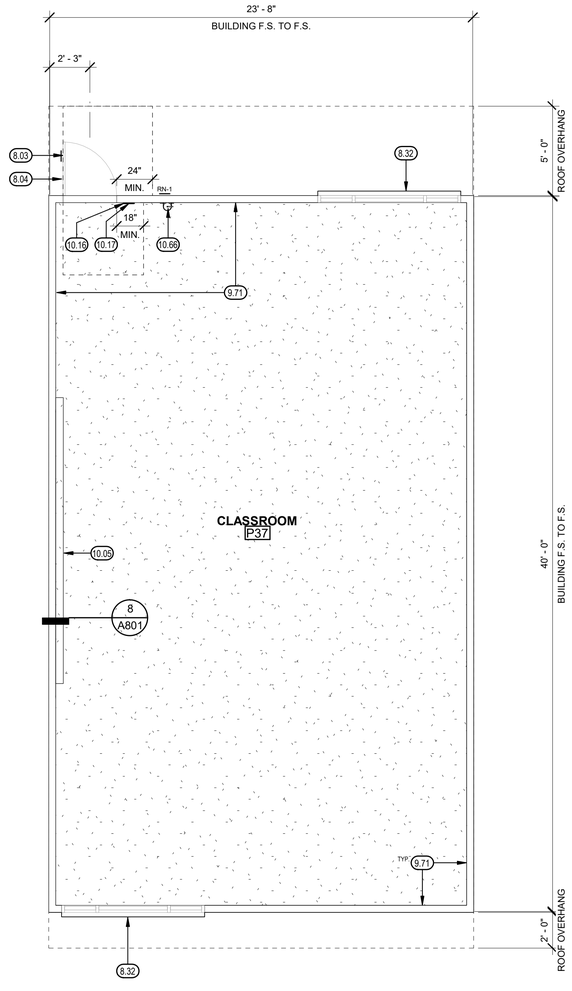
PROJECT NO.
23-12259.00

DRAWING
A201

PLOT DATE: 2/28/2025 11:24:45 AM



DEMO PLAN - CLASSROOM BLDG. P37 1/4" = 1'-0" | 16



PROPOSED PLAN - CLASSROOM BLDG. P37 1/4" = 1'-0" | 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.64	REMOVE AND REPLACE EXISTING THRESHOLD AND SALVAGE DOOR FOR REINSTALLATION
2.71	REMOVE EXISTING RAMPS AND RAILINGS
2.75	REMOVE EXISTING DOOR HARDWARE
2.76	REMOVE EXISTING WALL SIGNAGE
2.85	REMOVE EXISTING WHITEBOARD AND SALVAGE FOR REINSTALLATION
2.86	REMOVE EXISTING TACKBOARD WALL FINISH AND RTB BASE TO ACCOMMODATE FOR NEW WORK
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8.32	REINSTALL SALVAGED WINDOW SCREEN AFTER PAINT, SEE SHEET A113
9.71	NEW TACKBOARD FINISH, SEE INTERIOR ELEVATIONS
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

WALL LEGEND

(E) 2x4 WOOD STUD @ 16" O.C.

LEGEND

REMOVE EXISTING CARPET TO ACCOMMODATE NEW WORK

NEW CARPET ON EXISTING FLOOR SLAB, ARCHITECT TO SELECT FINISH

TRD-U 8 WALL SIGNAGE, SEE 3 / A800

ACCESSIBLE DOOR MANEUVERING CLEARANCE, SEE 8 / A800

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. ALL DIMENSIONS TO FACE OF STUD, U.N.O.

C. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE OF WALL FINISH.

D. PROVIDE WALL MOUNTED WHITEBOARDS WITH CONCEALED BLOCKING PER PLANS, TYP. SEE 12 / A800

E. ALL INTERIOR AND EXTERIOR SIGNAGE BY SITE CONTRACTOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-45363 STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FLOOR PLANS - CLASSROOM BLDG. P37 - ALT. BID 2

PROJECT NO.
23-12259.00

DRAWING
A202

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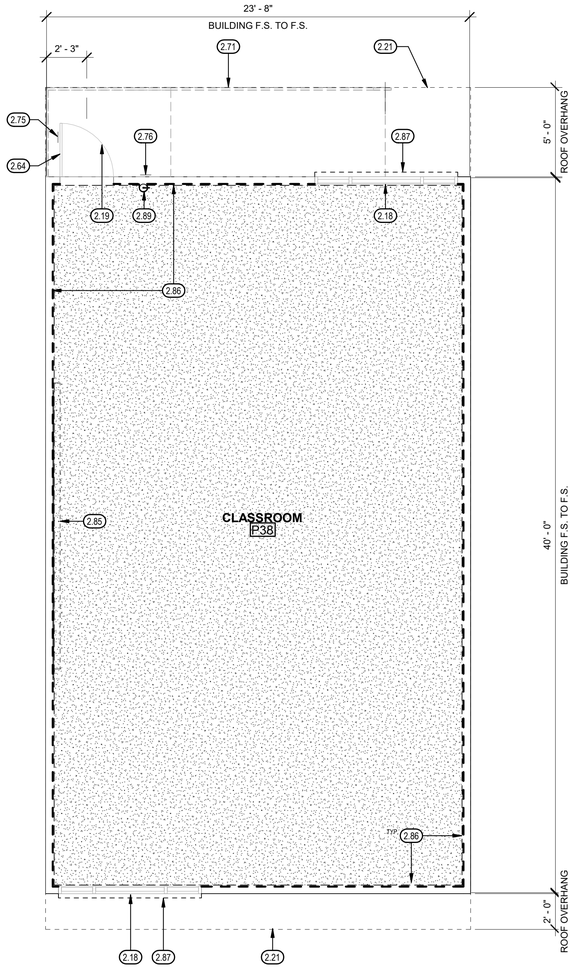
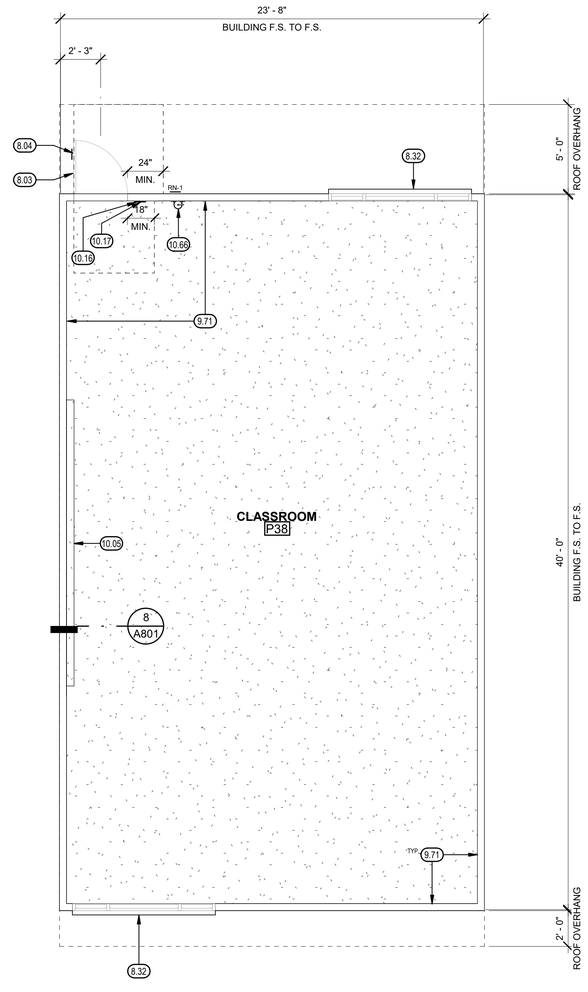


NORTH

DEMO PLAN - CLASSROOM BLDG. P38 1/4" = 1'-0" | 16



NORTH

PROPOSED PLAN - CLASSROOM BLDG. P38 1/4" = 1'-0" | 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
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9.71	NEW TACKBOARD FINISH, SEE INTERIOR ELEVATIONS
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

WALL LEGEND

(E) 2x4 WOOD STUD @ 16" O.C.

LEGEND

REMOVE EXISTING CARPET TO ACCOMMODATE NEW WORK

NEW CARPET ON EXISTING FLOOR SLAB, ARCHITECT TO SELECT FINISH

TRD-U WALL SIGNAGE, SEE 3 / A800

ACCESSIBLE DOOR MANEUVERING CLEARANCE, SEE 8 / A800

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. ALL DIMENSIONS TO FACE OF STUD, U.N.O.

C. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE OF WALL FINISH.

D. PROVIDE WALL MOUNTED WHITEBOARDS WITH CONCEALED BLOCKING PER PLANS, TYP. SEE 12 / A800

E. ALL INTERIOR AND EXTERIOR SIGNAGE BY SITE CONTRACTOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-15353 STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FLOOR PLANS - CLASSROOM BLDG. P38 - ALT. BID 2

PROJECT NO.
23-12259.00

DRAWING
A203

PLOT DATE: 2/28/2025 11:24:49 AM

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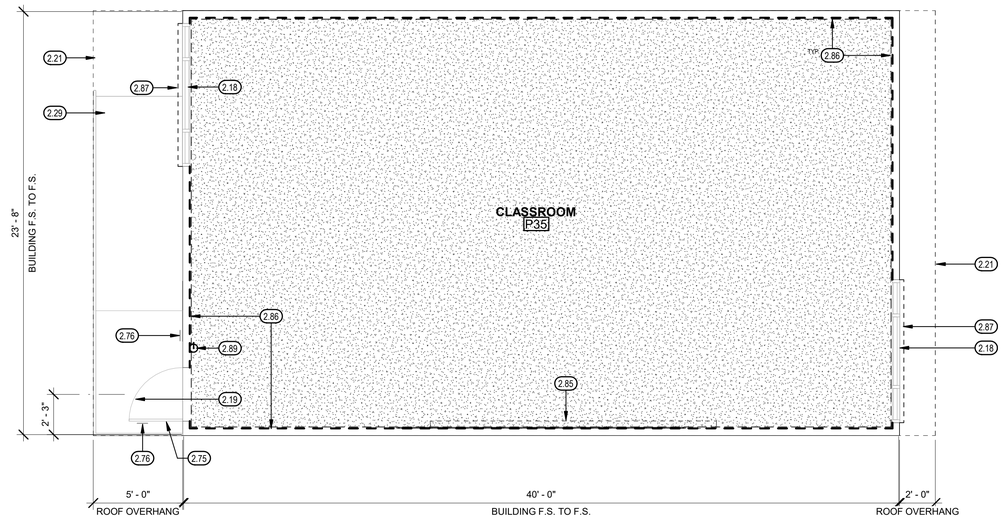
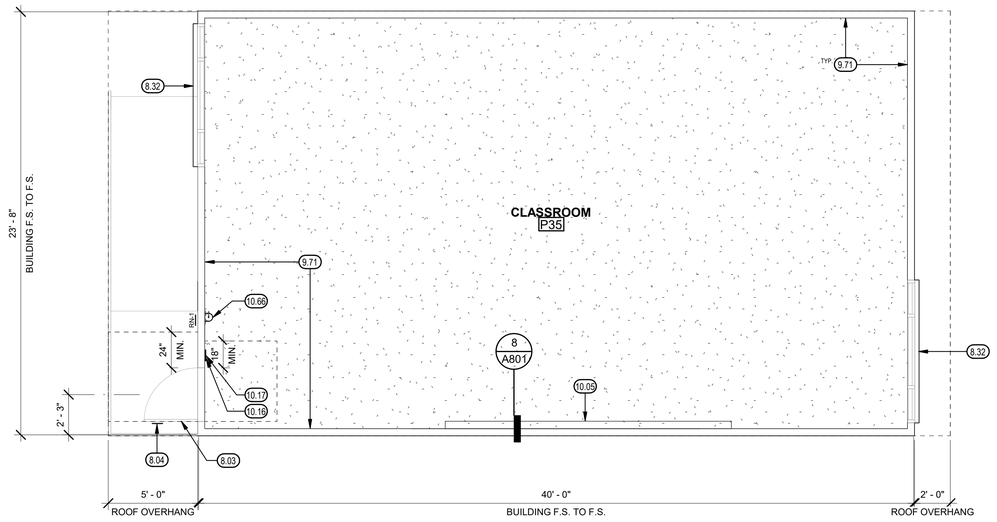


NORTH

DEMO PLAN - CLASSROOM BLDG. P35

1/4" = 1'-0" | 6



NORTH

PROPOSED PLAN - CLASSROOM BLDG. P35

1/4" = 1'-0" | 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.29	EXISTING RAMP TO REMAIN
2.75	REMOVE EXISTING DOOR HARDWARE
2.76	REMOVE EXISTING WALL SIGNAGE
2.85	REMOVE EXISTING WHITEBOARD AND SALVAGE FOR REINSTALLATION
2.86	REMOVE EXISTING TACKBOARD WALL FINISH AND RTB BASE TO ACCOMMODATE FOR NEW WORK
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9.71	NEW TACKBOARD FINISH, SEE INTERIOR ELEVATIONS
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

WALL LEGEND

(E) 2x4 WOOD STUD @ 16" O.C.

LEGEND

REMOVE EXISTING CARPET TO ACCOMMODATE NEW WORK

NEW CARPET ON EXISTING FLOOR SLAB, ARCHITECT TO SELECT FINISH

TRD-U — WALL SIGNAGE, SEE 3 / A800

ACCESSIBLE DOOR MANEUVERING CLEARANCE, SEE 8 / A800

GENERAL NOTES

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C. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE OF WALL FINISH.

D. PROVIDE WALL MOUNTED WHITEBOARDS WITH CONCEALED BLOCKING PER PLANS, TYP. SEE 12 / A800

E. ALL INTERIOR AND EXTERIOR SIGNAGE BY SITE CONTRACTOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-15363 STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FLOOR PLANS - CLASSROOM BLDG. P35 - ALT. BID 2

PROJECT NO.
23-12259.00

DRAWING
A204

PLOT DATE: 2/28/2025 11:24:51 AM

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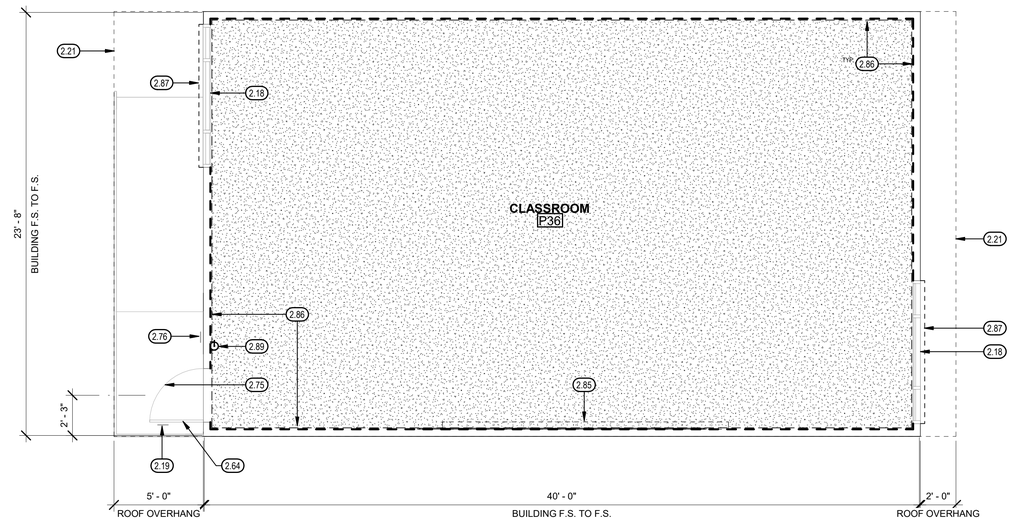
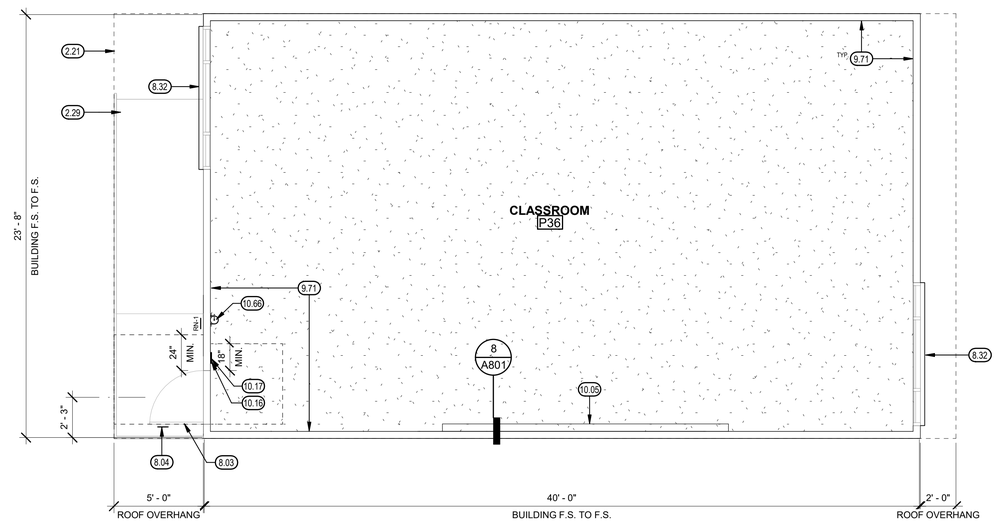


NORTH

DEMO PLAN - CLASSROOM BLDG. P36 — 1/4" = 1'-0" — 6



NORTH

PROPOSED PLAN - CLASSROOM BLDG. P36 — 1/4" = 1'-0" — 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.29	EXISTING RAMP TO REMAIN
2.64	REMOVE AND REPLACE EXISTING THRESHOLD AND SALVAGE DOOR FOR REINSTALLATION
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10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

WALL LEGEND

(E) 2x4 WOOD STUD @ 16" O.C.

LEGEND

REMOVE EXISTING CARPET TO ACCOMMODATE NEW WORK

NEW CARPET ON EXISTING FLOOR SLAB, ARCHITECT TO SELECT FINISH

TRD-U — WALL SIGNAGE, SEE 3 / A800

ACCESSIBLE DOOR MANEUVERING CLEARANCE, SEE 8 / A800

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. ALL DIMENSIONS TO FACE OF STUD, U.N.O.

C. DIMENSIONS WITH "MIN.","CLR.", OR "ABSOLUTE" IS MEASURED FROM FACE OF WALL FINISH.

D. PROVIDE WALL MOUNTED WHITEBOARDS WITH CONCEALED BLOCKING PER PLANS, TYP. SEE 12 / A800

E. ALL INTERIOR AND EXTERIOR SIGNAGE BY SITE CONTRACTOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C-15363 STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FLOOR PLANS - CLASSROOM BLDG. P36 - ALT. BID 2

PROJECT NO.
23-12259.00

DRAWING
A205

PLOT DATE: 2/28/2025 11:24:54 AM

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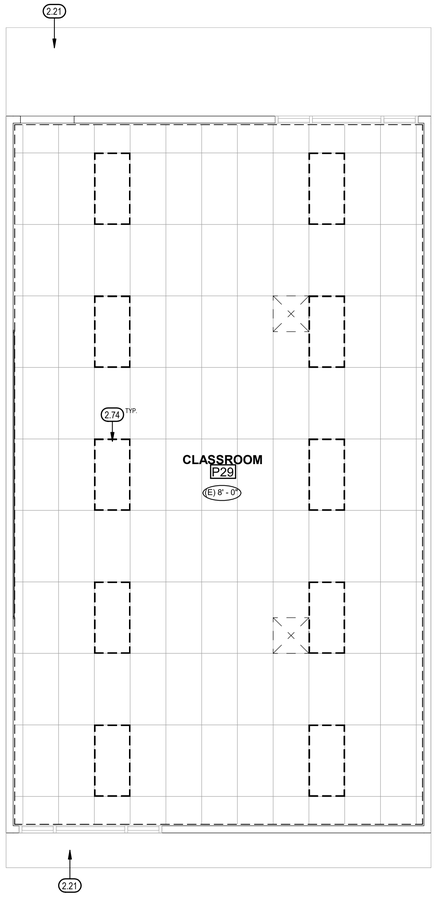
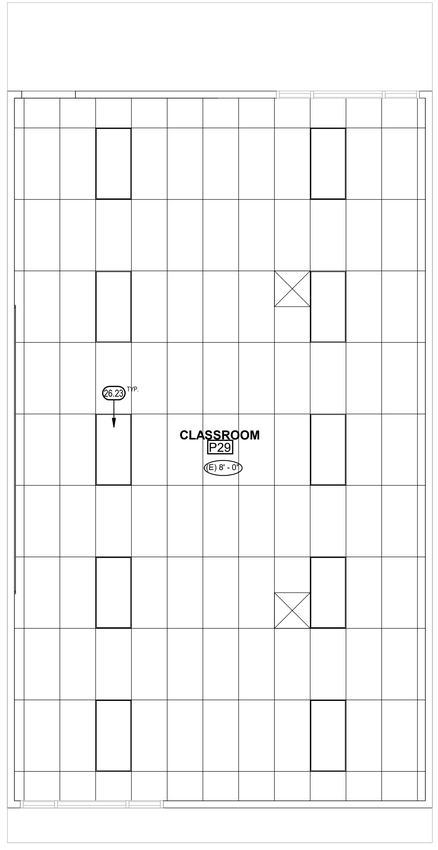


DEMO REFLECTED CEILING PLAN - BULDING P29 1/4" = 1'-0" 16

NORTH



PROPOSED REFLECTED CEILING PLAN - BULDING P29 1/4" = 1'-0" 8

NORTH

KEYNOTES (00.00)

2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.74	REMOVE EXISTING FLUORESCENT LIGHT LENS, EXISTING LIGHT FIXTURE TO REMAIN
26.23	NEW FLUORESCENT LIGHT LENS INSTALLED ON EXISTING LIGHT FIXTURE

LEGEND

EXISTING 2' x 4' SUSPENDED ACOUSTIC CEILING PANELS TO BE REMOVED. FRAME TO REMAIN. REPAIR ANY DAMAGED FRAME TO RECEIVE NEW CEILING TILES.

PROVIDE NEW 2' x 4' SUSPENDED ACOUSTIC CEILING TILES IN EXISTING SUSPENDED FRAME. FRAME TO BE PAINTED. ARCHITECT TO SELECT COLOR.

ROOM 101 — ROOM SYMBOL

1'-0" — CEILING HEIGHT

EXISTING MECHANICAL GRILLES AND DUCTS TO REMAIN. PROTECT DURING MODERNIZATION

EXISTING MECHANICAL GRILLES TO BE PAINTED. ARCHITECT TO SELECT COLOR.

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. CONTRACTOR SHALL PATCH, REPAIR OR REPLACE ANY ADJACENT WORK (WALL, CEILING, FLOOR SURFACES, ETC.) THAT IS DAMAGED, REMOVED AND/OR DEMOLISHED DURING THE COURSE OF CONSTRUCTION. SEE SPECIFICATION REQUIREMENTS FOR CUTTING AND PATCHING.

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DATE: 03/07/2025

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FRESNO HEADQUARTERS
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TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

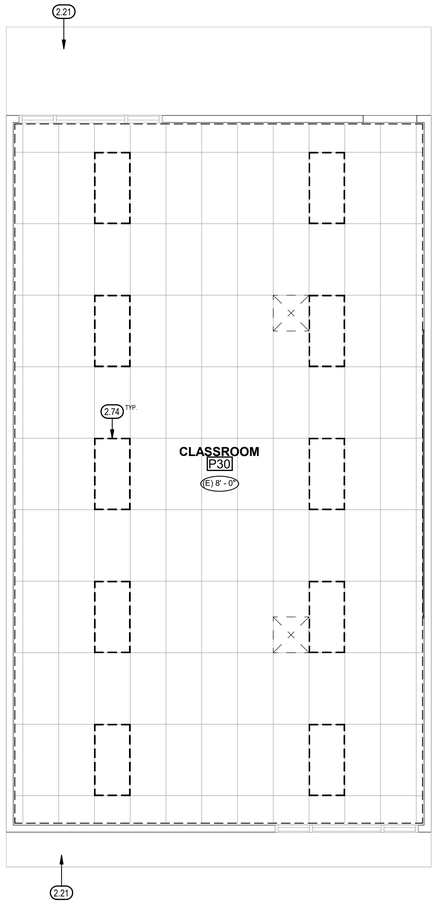
DRAWING TITLE
REFLECTED CEILING PLAN - CLASSROOM BLDG. P29

PROJECT NO.
23-12259.00

DRAWING
A600

PLOT DATE: 2/28/2025 11:24:56 AM

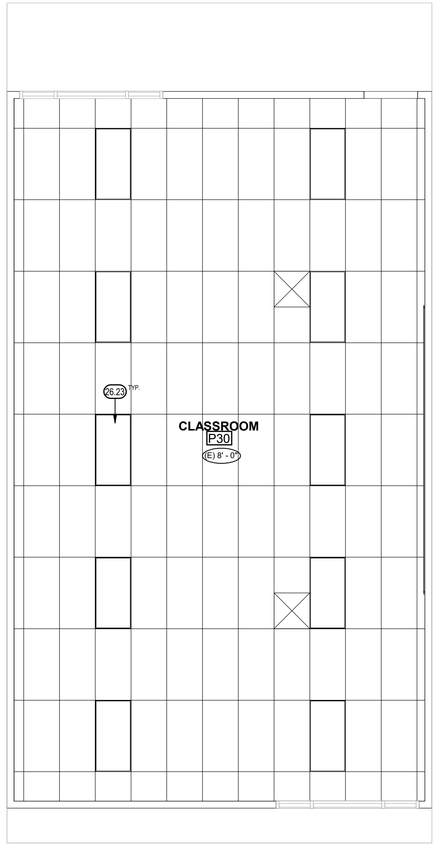
\\tetr-file1\Users\cesar.silva_TETR\Documents\12259-A-MCSD-FRANKLIN ES.PHASE 3_cesar.sil.rvt



DEMO REFLECTED CEILING PLAN - BULDING P30 1/4" = 1'-0"

NORTH

16



PROPOSED REFLECTED CEILING PLAN - BULDING P30 1/4" = 1'-0"

NORTH

8

KEYNOTES (00.00)

2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.74	REMOVE EXISTING FLUORESCENT LIGHT LENS, EXISTING LIGHT FIXTURE TO REMAIN
26.23	NEW FLUORESCENT LIGHT LENS INSTALLED ON EXISTING LIGHT FIXTURE

LEGEND

EXISTING 2' x 4' SUSPENDED ACOUSTIC CEILING PANELS TO BE REMOVED. FRAME TO REMAIN. REPAIR ANY DAMAGED FRAME TO RECEIVE NEW CEILING TILES.

PROVIDE NEW 2' x 4' SUSPENDED ACOUSTIC CEILING TILES IN EXISTING SUSPENDED FRAME. FRAME TO BE PAINTED. ARCHITECT TO SELECT COLOR.

ROOM 101 — ROOM SYMBOL

1'-0" — CEILING HEIGHT

EXISTING MECHANICAL GRILLES AND DUCTS TO REMAIN. PROTECT DURING MODERNIZATION

EXISTING MECHANICAL GRILLES TO BE PAINTED. ARCHITECT TO SELECT COLOR.

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2736 Franklin Road, Merced, CA

DRAWING TITLE
REFLECTED CEILING PLAN - CLASSROOM BLDG. P30

PROJECT NO.
23-12259.00

DRAWING
A601

PLOT DATE: 2/28/2025 11:24:57 AM

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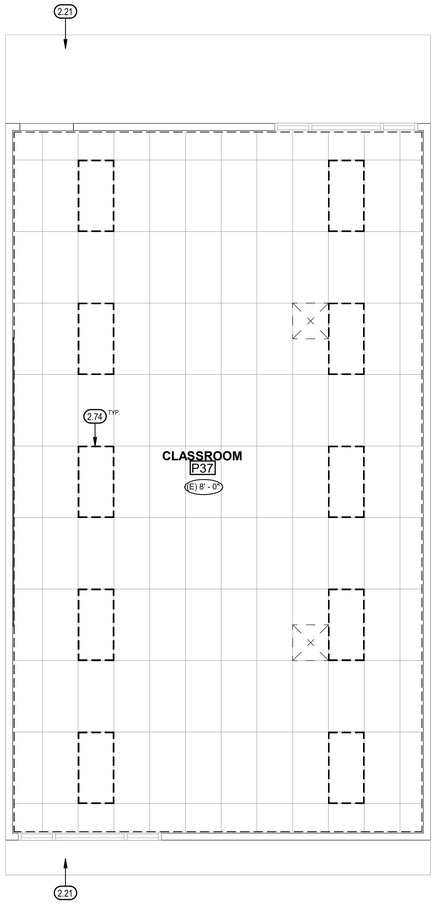
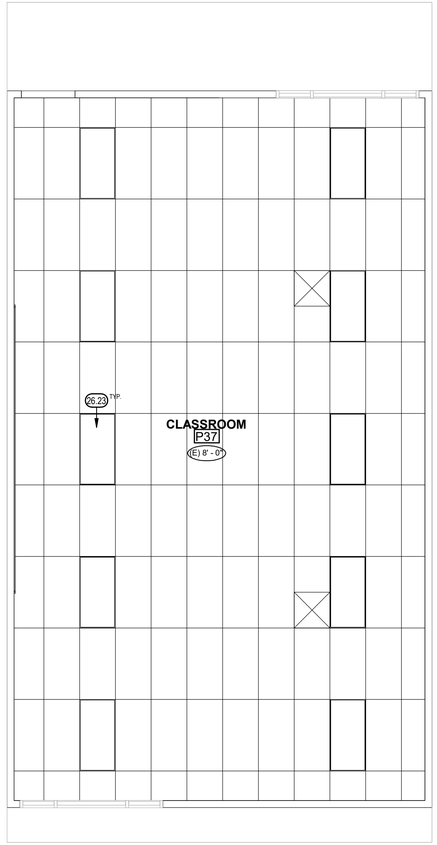


DEMO REFLECTED CEILING PLAN - BUILDING P37

1/4" = 1'-0"

NORTH

16



PROPOSED REFLECTED CEILING PLAN - BUILDING P37

1/4" = 1'-0"

NORTH

8

KEYNOTES (00.00)

2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
2.74	REMOVE EXISTING FLUORESCENT LIGHT LENS, EXISTING LIGHT FIXTURE TO REMAIN
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1'-0" — CEILING HEIGHT

EXISTING MECHANICAL GRILLES AND DUCTS TO REMAIN. PROTECT DURING MODERNIZATION

EXISTING MECHANICAL GRILLES TO BE PAINTED. ARCHITECT TO SELECT COLOR.

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2736 Franklin Road, Merced, CA

DRAWING TITLE
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PROJECT NO.
23-12259.00

DRAWING
A602

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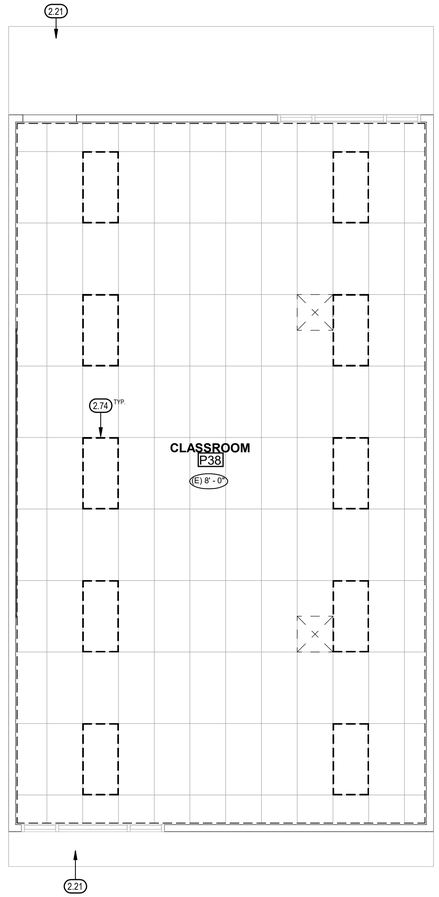
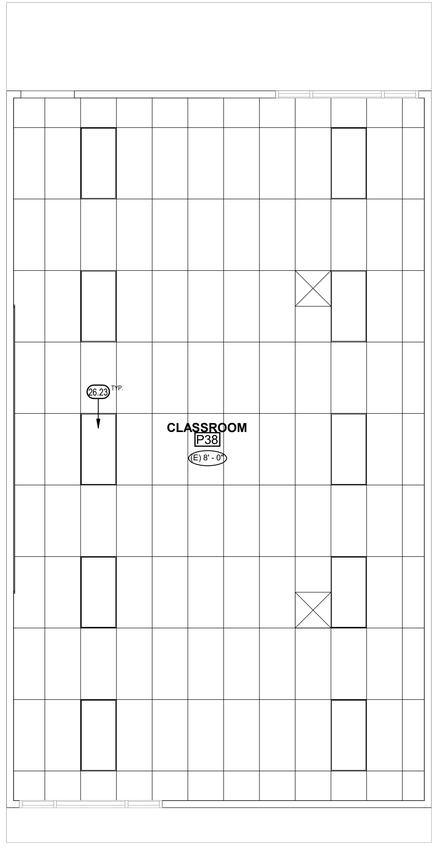


DEMO REFLECTED CEILING PLAN - BUILDING P38 1/4" = 1'-0" 16

NORTH



PROPOSED REFLECTED CEILING PLAN - BUILDING P38 1/4" = 1'-0" 8

NORTH

KEYNOTES (00.00)

2.21	EXISTING ROOF OVERHANG ABOVE TO BE PREPPED TO RECEIVE NEW PAINT
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PROJECT NO.
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DRAWING
A603

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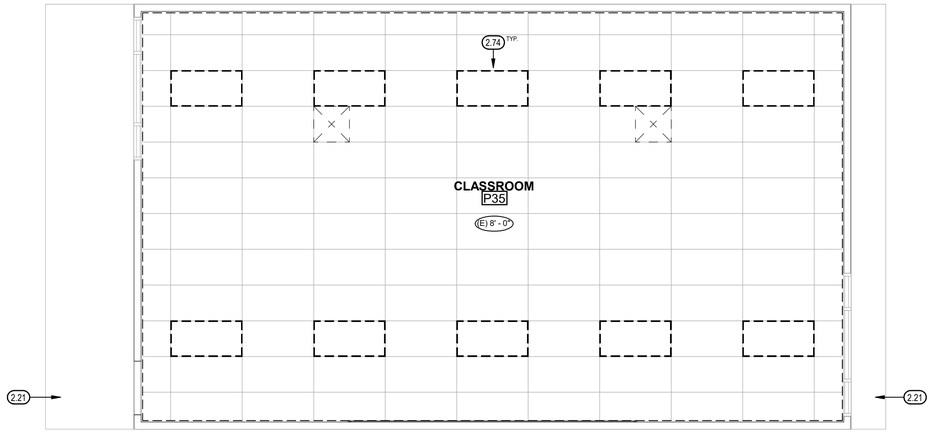
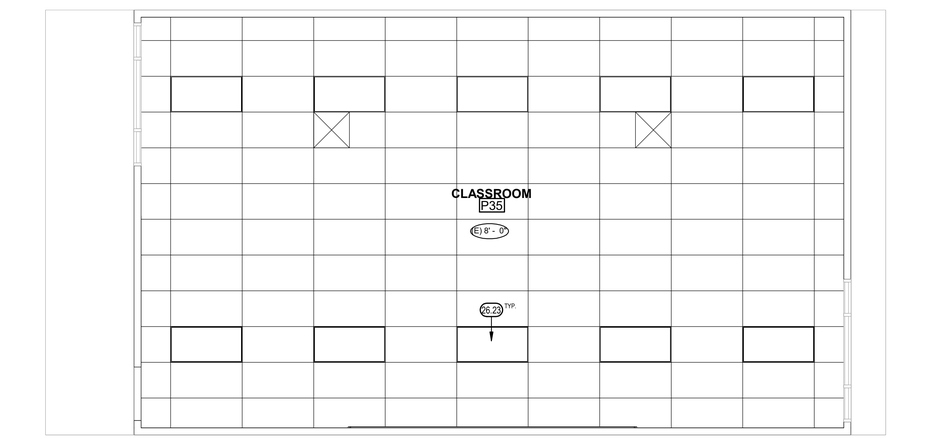


NORTH

DEMO REFLECTED CEILING PLAN - BUILDING P35

1/4" = 1'-0" | 6



NORTH

PROPOSED REFLECTED CEILING PLAN - BUILDING P35

1/4" = 1'-0" | 8

KEYNOTES (00.00)

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2.74	REMOVE EXISTING FLUORESCENT LIGHT LENS, EXISTING LIGHT FIXTURE TO REMAIN
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1'-0" — CEILING HEIGHT

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MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
REFLECTED CEILING PLAN - CLASSROOM BLDG. P35

PROJECT NO.
23-12259.00

DRAWING
A604

PLOT DATE: 2/28/2025 11:25:03 AM

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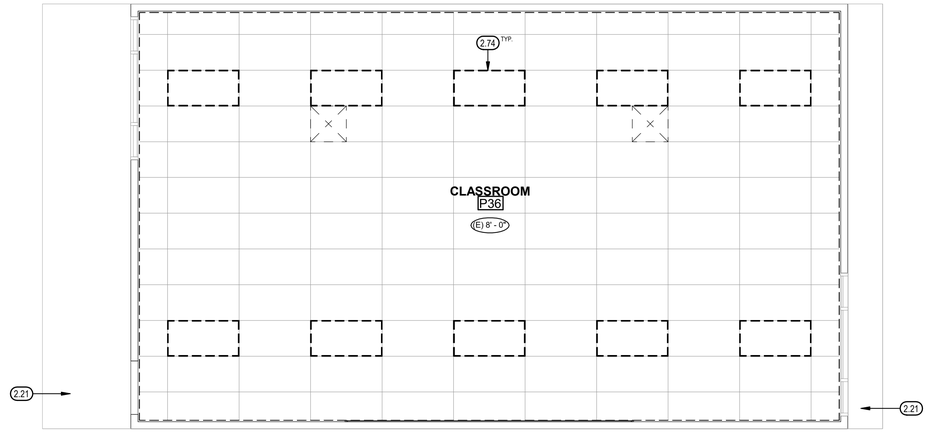
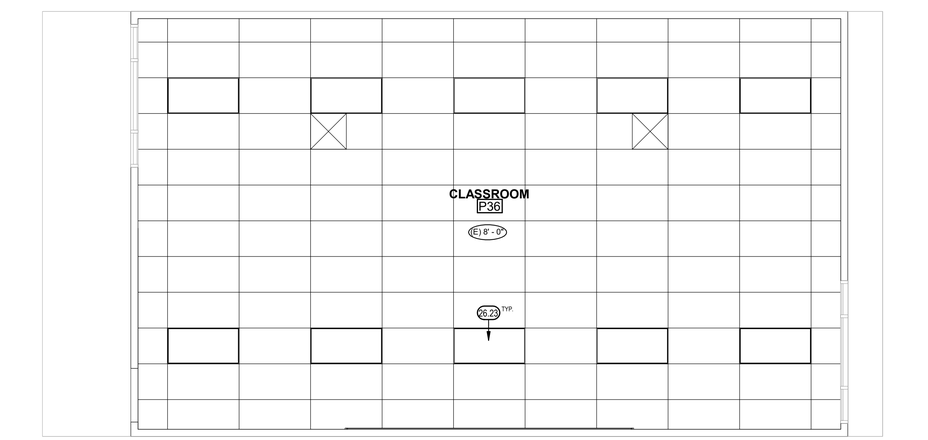


NORTH

DEMO REFLECTED CEILING PLAN - BUILDING P36

1/4" = 1'-0" | 6



NORTH

PROPOSED REFLECTED CEILING PLAN - BUILDING P36

1/4" = 1'-0" | 8

KEYNOTES (00.00)

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1'-0" — CEILING HEIGHT

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DRAWING TITLE
REFLECTED CEILING PLAN - CLASSROOM BLDG. P36

PROJECT NO.
23-12259.00

DRAWING
A605

PLOT DATE: 2/28/2025 11:25:05 AM

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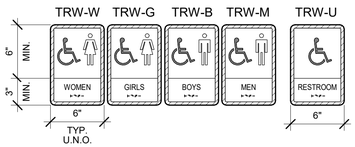
TYPICAL ROOM IDENTIFICATION

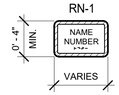
WALL MOUNTED TOILET SIGNAGE AT ACCESSIBLE TOILETS (TRW)



WALL MOUNTED IDENTIFICATION SIGNAGE @ FUNCTIONAL ROOMS (RN)

COORDINATE ROOM NAME AND NUMBER WITH OWNER PRIOR TO FABRICATION. DO NOT USE IDENTIFICATION FOUND ON THE DRAWINGS, U.N.O.

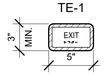
RN-1



WALL MOUNTED TACTILE EXIT SIGN (TE)

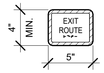
1. EXIT DOOR LEADS DIRECTLY TO GRADE LEVEL EXTERIOR EXIT, SIGN TO STATE: "EXIT"

TE-1



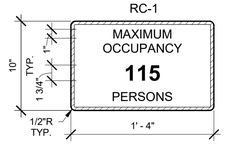
2. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE."

TE-2



ROOM CAPACITY SIGN (RC)

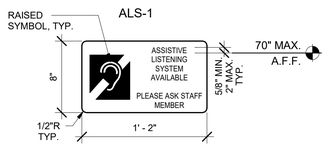
RC-1

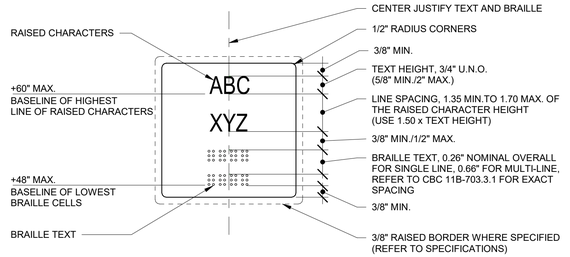


ASSISTED LISTENING DEVICE (ALS)

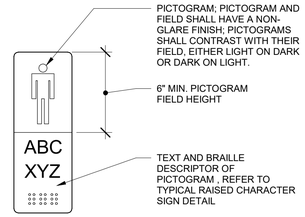
1. SEE FLOOR PLAN FOR POSTED LOCATION.

ALS-1

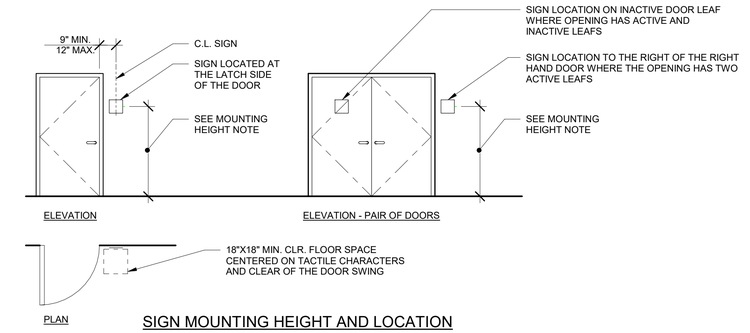




TYPICAL ROOM IDENTIFICATION OR TACTILE EXIT SIGN



SIGN WITH PICTOGRAM



SIGN MOUNTING HEIGHT AND LOCATION

NOTES:

GENERAL: SIGNAGE SHALL COMPLY WITH CBC SECTION 11B-703, RAISED CHARACTER SIGNS SHALL COMPLY WITH CBC 11B-703.2, 11B-703.3 AND 11B-703.4

RAISED CHARACTERS (CBC 11B-703.2): RAISED CHARACTERS (TEXT) SHALL COMPLY WITH CBC SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE. RAISED CHARACTERS SHALL BE UPPER CASE AND BE RAISED 1/32-INCH MINIMUM ABOVE THEIR BACKGROUND. CHARACTERS SHALL BE SANS SERIF AND NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OTHER UNUSUAL FORMS. CHARACTERS 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". CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8-INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. TEXT SHALL BE IN A HORIZONTAL FORMAT. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

BRAILLE (CBC 11B-703.3): BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 703.3.1. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, CENTER JUSTIFIED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM AND FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

MOUNTING HEIGHT (CBC 11B-703.4.1): TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FORM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

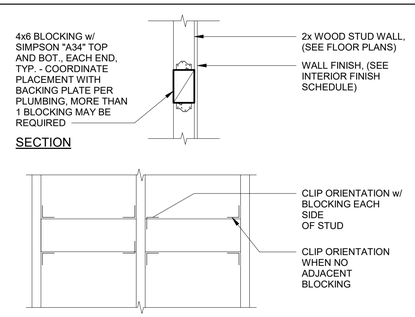
LOCATION (CBC 11B-703.4.2): SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED 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 INCHES MINIMUM BY 18 INCHES MINIMUM, 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.

PICTOGRAMS (CBC 11B-703.6): PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM, CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH, PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD AND BRAILLE TRANSLATION BELOW TEXT DESCRIPTION, TEXT DESCRIPTORS SHALL COMPLY WITH CBC SECTIONS 11B-703.2, 11B-703.3, AND 11B-703.4.1.

SRH_12_2019

TYPICAL ROOM SIGNAGE IDENTIFICATION AND TACTILE SIGNAGE

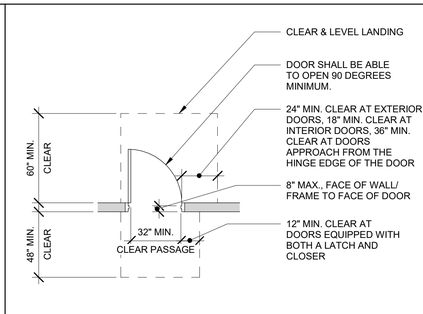
1 1/2" = 1'-0" | 3



WOOD BLOCKING AT WOOD STUDS

BLOCKING DETAIL

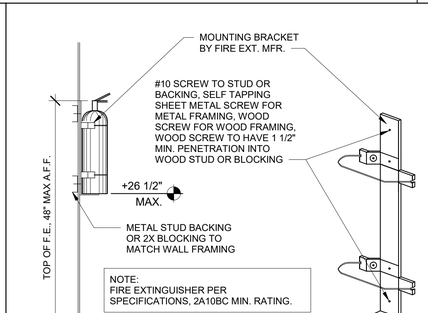
1" = 1'-0" | 12



SRH_12_2019

ACCESSIBLE MANEUVERING CLEARANCE AT DOORS

1/4" = 1'-0" | 8



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FIRE EXTINGUISHER BRACKET

12" = 1'-0" | 4

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ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
DETAILS

PROJECT NO.
23-12259.00

DRAWING
A800

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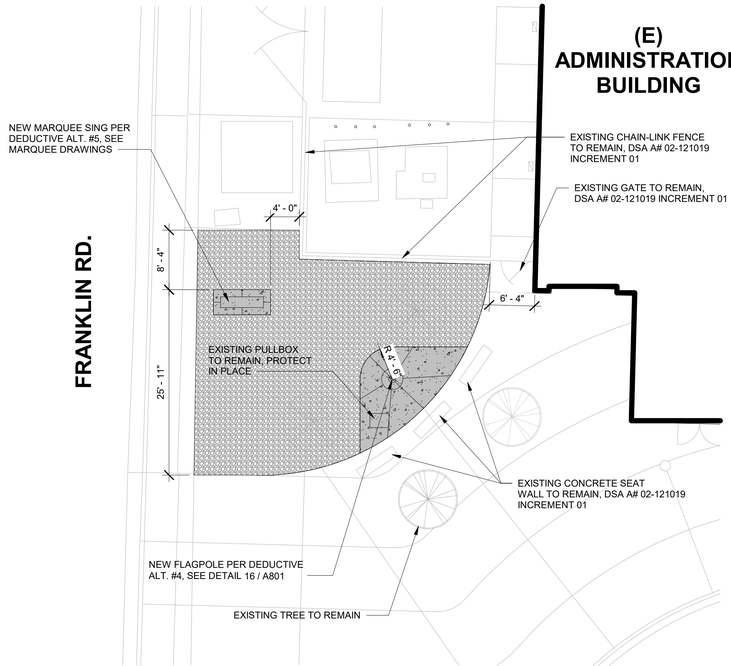
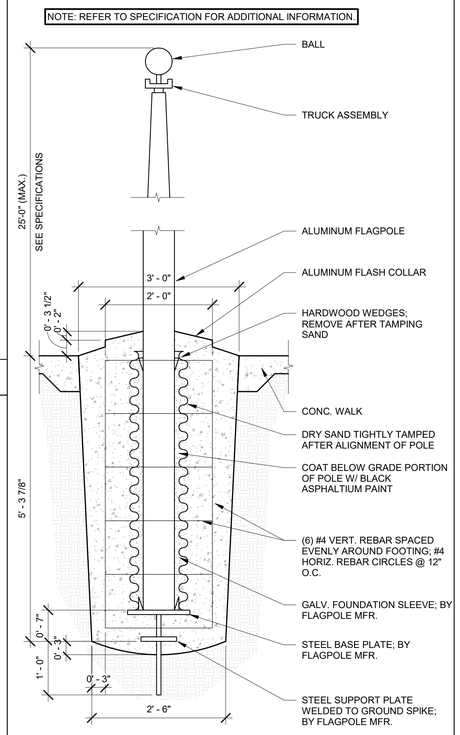
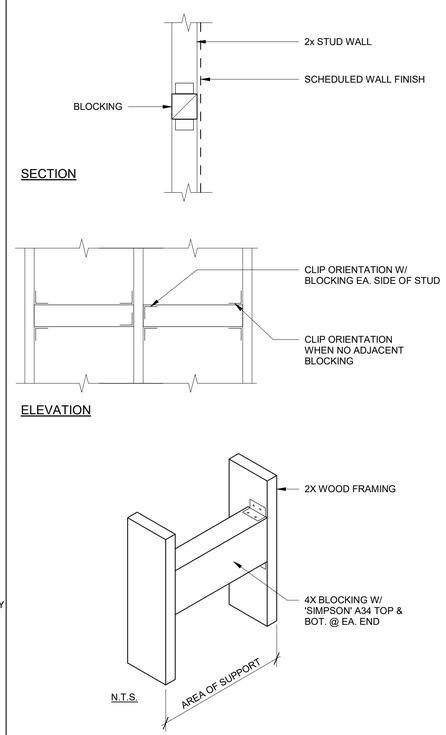


ENLARGED SITE PLAN - MARQUEE AND FLAGPOLE 1" = 10'-0" | 10

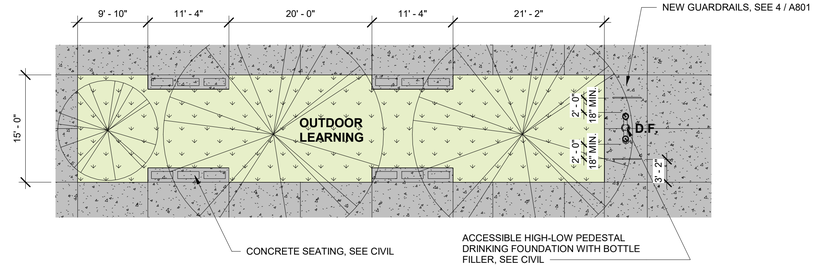
NOTE: REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.



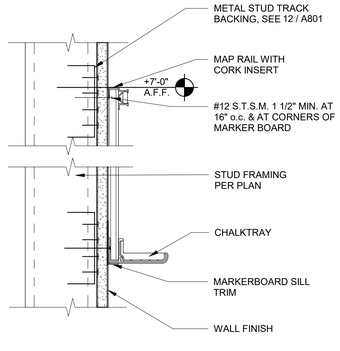
FLAGPOLE 3/4" = 1'-0" | 16



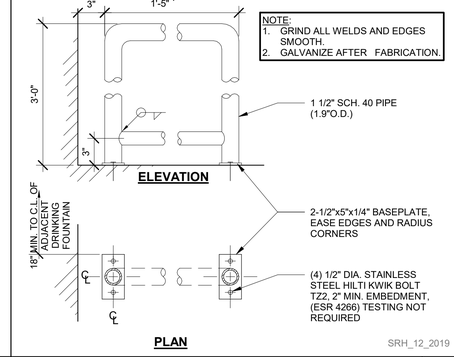
WALL BLOCKING 1 1/2" = 1'-0" | 12



ENLARGED SITE PLAN - OUTDOOR LEARNING AREA 1" = 10'-0" | 3



MARKERBOARD 3" = 1'-0" | 8



GUARDRAIL AT EXTERIOR D.F. 1 1/2" = 1'-0" | 4

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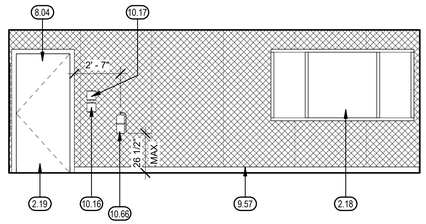
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
DETAILS

PROJECT NO.
23-12259.00

DRAWING
A801



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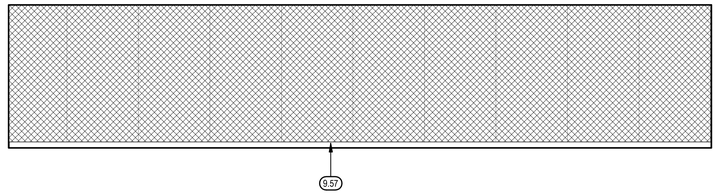

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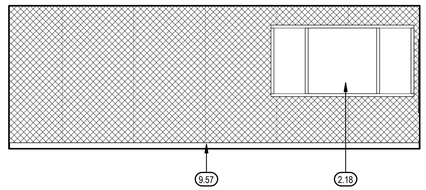

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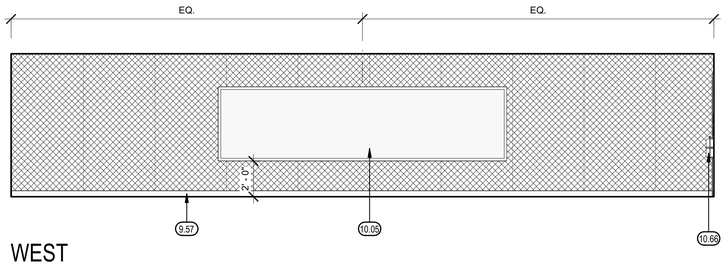
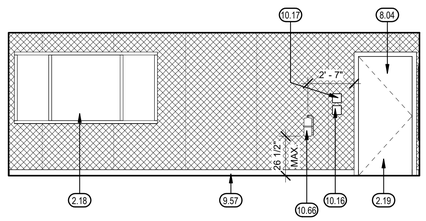


WEST

CLASSROOM P29 — 1/4" = 1'-0" — 6



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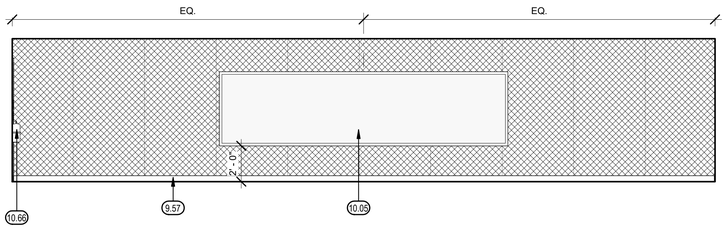

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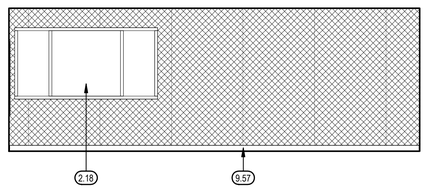

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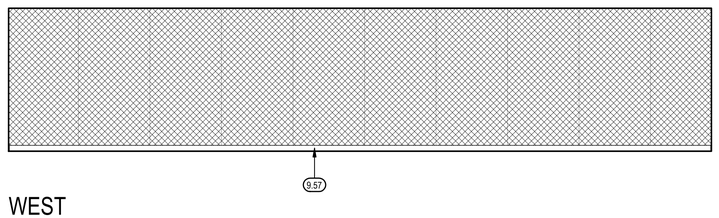

WEST

CLASSROOM P30 — 1/4" = 1'-0" — 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
8.04	NEW DOOR HARDWARE: EXISTING DOOR TO RECEIVE NEW DOOR HARDWARE, SEE DOOR SCHEDULE
9.57	NEW 4" RUBBER TOPSET BASE (RTB), COLOR TO BE SELECTED BY ARCHITECT
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

LEGEND

NEW VINYL COVERED TACKBOARD, COLOR TO BE SELECTED BY ARCHITECT

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. REFER TO SHEET A000 FOR ABBREVIATIONS AND SYMBOLS.

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FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
INTERIOR ELEVATIONS

PROJECT NO.
23-12259.00

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A900

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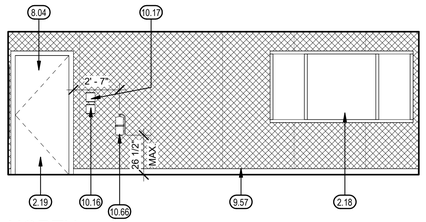

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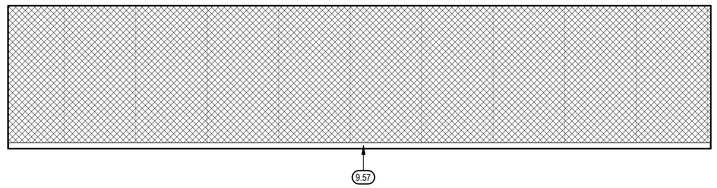

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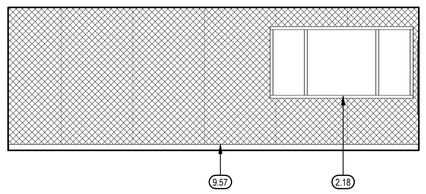

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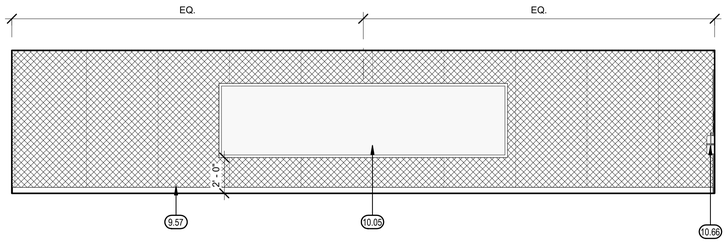
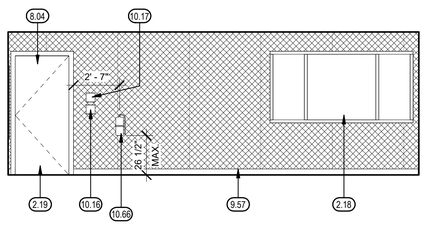


WEST

CLASSROOM P32 — 1/4" = 1'-0" — 6



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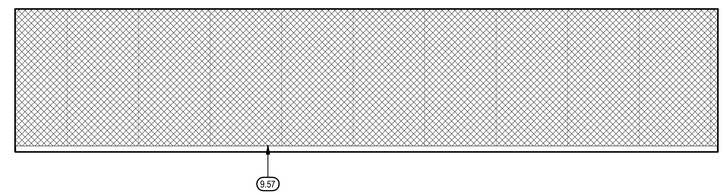

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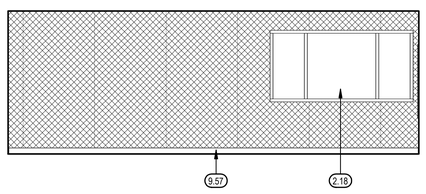

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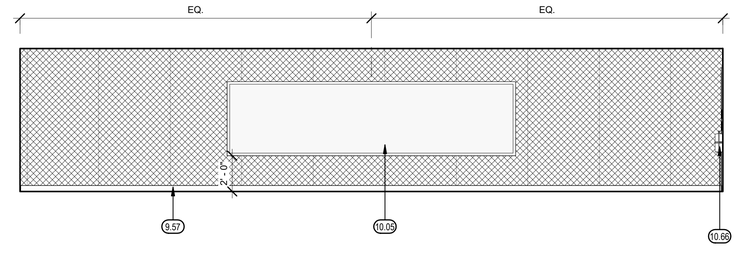

WEST

CLASSROOM P33 — 1/4" = 1'-0" — 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
8.04	NEW DOOR HARDWARE: EXISTING DOOR TO RECEIVE NEW DOOR HARDWARE, SEE DOOR SCHEDULE
9.57	NEW 4" RUBBER TOPSET BASE (RTB), COLOR TO BE SELECTED BY ARCHITECT
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

LEGEND

NEW VINYL COVERED TACKBOARD, COLOR TO BE SELECTED BY ARCHITECT

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. REFER TO SHEET A000 FOR ABBREVIATIONS AND SYMBOLS.

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TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
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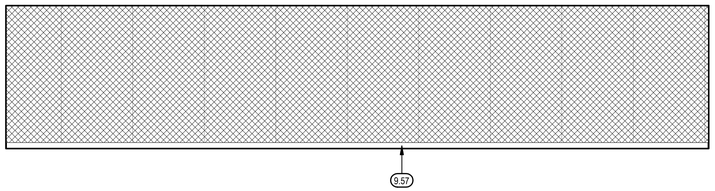

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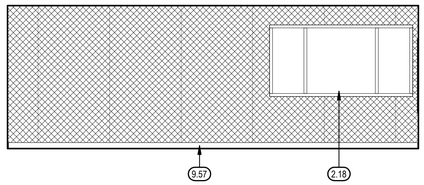

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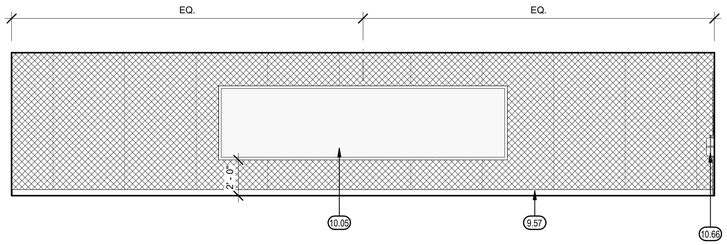

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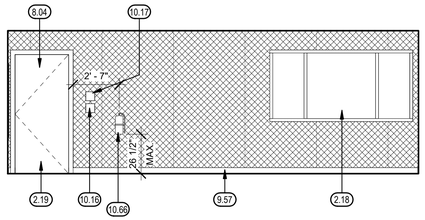
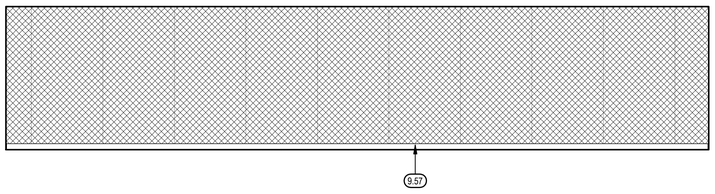


WEST

CLASSROOM P34 — 1/4" = 1'-0" — 6



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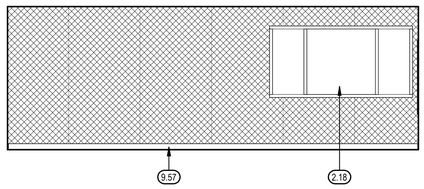

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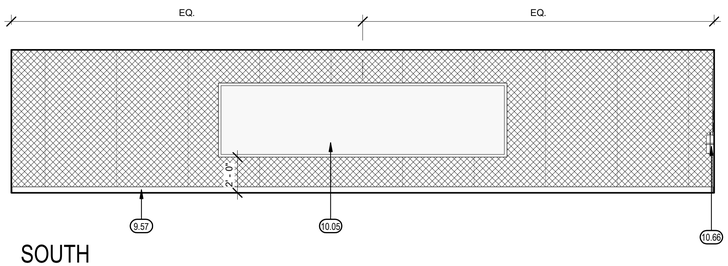

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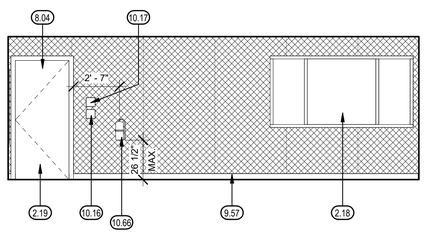

WEST

CLASSROOM P35 — 1/4" = 1'-0" — 8

KEYNOTES (00.00)

2.18	EXISTING WINDOW TO REMAIN
2.19	EXISTING DOOR: DOOR TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT
8.04	NEW DOOR HARDWARE: EXISTING DOOR TO RECEIVE NEW DOOR HARDWARE, SEE DOOR SCHEDULE
9.57	NEW 4" RUBBER TOPSET BASE (RTB), COLOR TO BE SELECTED BY ARCHITECT
10.05	REINSTALL SALVAGED WHITEBOARD
10.16	TACTILE EXIT SIGNAGE, SEE 3/A800
10.17	ALS SIGNAGE, SEE 3/A800
10.66	NEW BRACKET & 2A10BC MIN. RATED FIRE EXTINGUISHER, SEE 4 / A800

LEGEND

NEW VINYL COVERED TACKBOARD, COLOR TO BE SELECTED BY ARCHITECT

GENERAL NOTES

A. KEYNOTES APPLY TO THIS DRAWING ONLY

B. REFER TO SHEET A000 FOR ABBREVIATIONS AND SYMBOLS.

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APP: 02-122839 INC:
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DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER B. NIKKEL C - 15363 STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

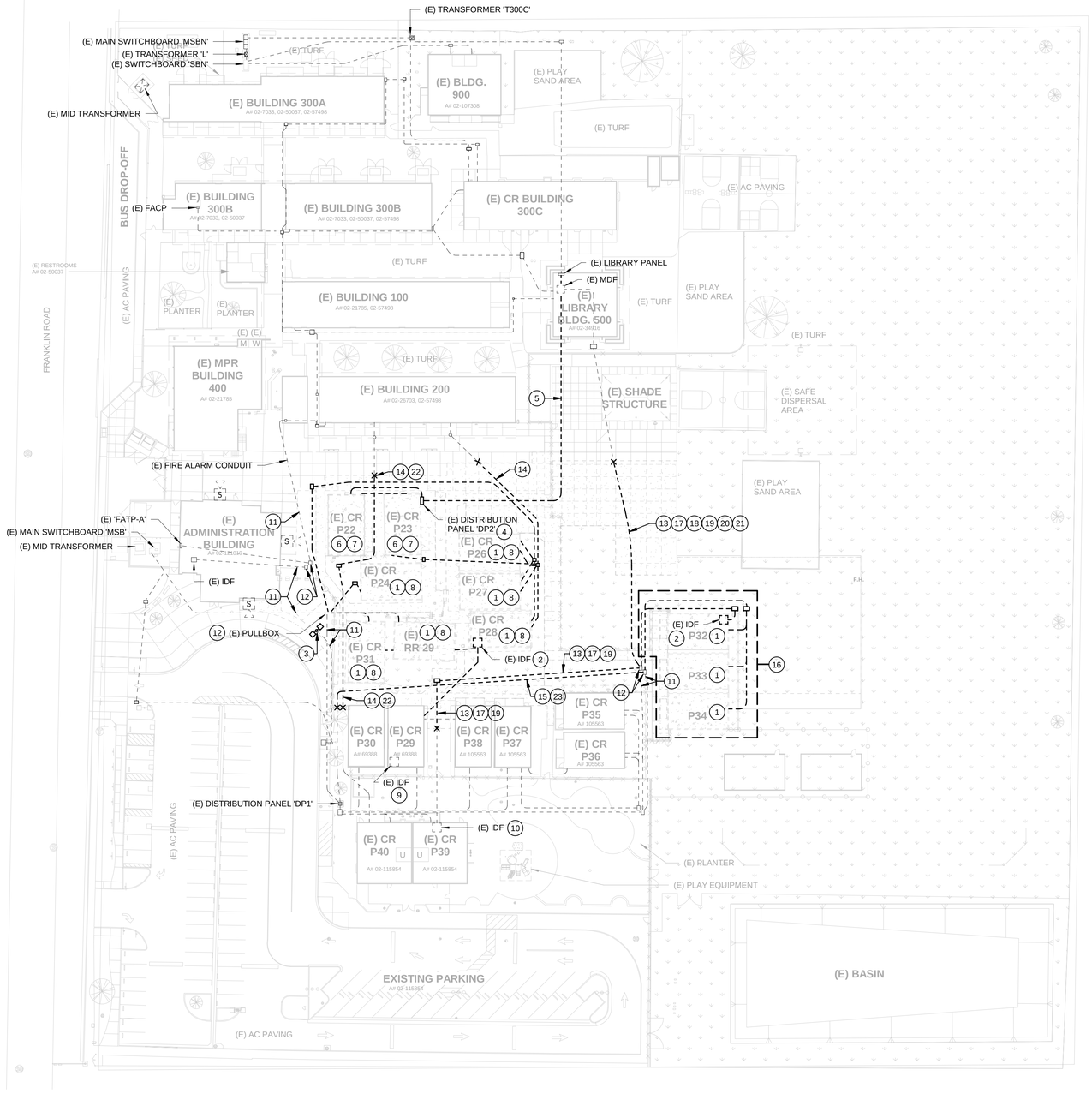
MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
INTERIOR ELEVATIONS

PROJECT NO.
23-12259.00

DRAWING
A902

PLOT DATE: 2/28/2025 11:25:16 AM



NORTH

DEMOLITION ELECTRICAL SITE PLAN

1" = 40'-0"

1

KEYNOTES

1. DISCONNECT (E) SIGNAL AND FIRE ALARM DEVICES IN (E) RELOCATABLE CLASSROOM BEING REMOVED. RETURN (E) FIRE ALARM DEVICES TO OWNER. REMOVE (E) SIGNAL CABLING TO PULLCAN AT BUILDING EXTERIOR.
2. DISCONNECT AND REMOVE (E) IDF AND RETURN TO OWNER.
3. DISCONNECT AND REMOVE (E) LIGHT POLE, FIXTURES AND FOOTING AND PRESERVE FOR RE-INSTALLATION AT NEW LOCATION. PRESERVE (E) UNDERGROUND LIGHTING BRANCH CIRCUIT FOR EXTENSION TO NEW LOCATION.
4. DISCONNECT AND REMOVE (E) DISTRIBUTION PANEL 'DP2'.
5. DISCONNECT AND REMOVE (E) FEEDER BETWEEN (E) PANEL 'DP2' AND (E) LIBRARY PANEL. REMOVE (E) UNDERGROUND CONDUIT UP TO LIMIT OF EXCAVATION FOR NEW BUILDINGS. REMOVE (E) FEEDER CONDUCTORS BACK TO (E) LIBRARY PANEL AND ABANDON REMAINING PORTION OF (E) UNDERGROUND FEEDER CONDUIT BELOW GRADE.
6. PRESERVE (E) TELECOMMUNICATIONS, DATA, FIRE ALARM, AND SECURITY DEVICES IN (E) RELOCATABLE BUILDING TO BE RELOCATED. REFER TO DRAWING E101 FOR RECONNECTION.
7. DISCONNECT (E) POWER PANEL AT RELOCATABLE BUILDING TO BE RELOCATED. REMOVE (E) FEEDER BACK TO (E) PANEL 'DP2'. REFER TO DRAWING E101 FOR RECONNECTION.
8. DISCONNECT (E) POWER PANEL AT RELOCATABLE BUILDING TO BE RELOCATED. REMOVE (E) FEEDER CONDUCTORS BACK TO (E) MAIN SWITCHBOARD 'MSB' AND RELABEL (E) FEEDER CIRCUIT BREAKER AS SPARE. REMOVE (E) UNDERGROUND CONDUIT BACK TO LIMIT OF EXCAVATION FOR NEW BUILDINGS. ABANDON REMAINING PORTION OF (E) UNDERGROUND FEEDER CONDUIT BELOW GRADE.
9. (E) IDF SHALL REMAIN. REMOVE (E) FIBER OPTIC CABLING BETWEEN (E) IDF AND (E) MDF AT LIBRARY. REFER TO KEYNOTE 17 ON THIS SHEET FOR ADDITIONAL INFORMATION.
10. (E) IDF SHALL REMAIN. REMOVE (E) FIBER OPTIC CABLING BETWEEN (E) IDF AND (E) MDF AT LIBRARY. REFER TO KEYNOTE 19 ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. PORTION OF (E) UNDERGROUND CONDUIT IN AREA OF WORK SHALL REMAIN. TRACE, LOCATE AND PROTECT DURING CONSTRUCTION.
12. (E) PULLBOX SHALL REMAIN. ADJUST PULLBOX ELEVATION TO NEW GRADE.
13. REMOVE (E) UNDERGROUND SIGNAL CONDUIT UP TO LIMIT OF EXCAVATION FOR NEW BUILDINGS.
14. REMOVE (E) UNDERGROUND FIRE ALARM CONDUIT UP TO LIMIT OF EXCAVATION FOR NEW BUILDINGS.
15. REMOVE (E) UNDERGROUND POWER CONDUIT UP TO LIMIT OF EXCAVATION FOR NEW BUILDINGS.
16. (E) CLASSROOMS 32, 33 AND 34 SHALL REMAIN IN OPERATION FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL NOT COMMENCE DEMOLITION WORK IN THIS AREA UNTIL NEW BUILDINGS ARE OCCUPIED. REFER TO DRAWING E101 FOR RE-CONNECTION OF POWER, DATA AND FIRE ALARM SITE CABLING TO THESE BUILDINGS THAT IS AFFECTED BY DEMOLITION WORK FOR THE NEW BUILDINGS.
17. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE DATA SERVICE TO (E) CLASSROOM BUILDINGS 29, 30, 35, 36, 37 AND 38. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REFER TO DRAWING E101 FOR RE-CONNECTION OF DATA SERVICE TO BUILDINGS.
18. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE DATA SERVICE TO (E) CLASSROOM BUILDINGS 32, 33 AND 34. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REFER TO DRAWING E101 FOR RE-CONNECTION OF DATA SERVICE TO BUILDINGS.
19. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE DATA SERVICE TO (E) CLASSROOM BUILDINGS 39 AND 40. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REFER TO DRAWING E101 FOR RE-CONNECTION OF DATA SERVICE TO BUILDINGS.
20. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE FIRE ALARM SERVICE TO (E) CLASSROOM BUILDINGS 29, 30, 35, 36, 37 AND 38. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REFER TO DRAWING E101 FOR RE-CONNECTION OF FIRE ALARM SERVICE TO BUILDINGS.
21. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE FIRE ALARM SERVICE TO (E) CLASSROOM BUILDINGS 32, 33 AND 34. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REFER TO DRAWING E101 FOR RE-CONNECTION OF FIRE ALARM SERVICE TO BUILDINGS.
22. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE FIRE ALARM SERVICE TO (E) CLASSROOM BUILDINGS 39 AND 40. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REFER TO DRAWING E101 FOR RE-CONNECTION OF FIRE ALARM SERVICE TO BUILDINGS.
23. REMOVAL OF THIS PORTION OF UNDERGROUND CONDUIT AND CABLING WILL REMOVE POWER CONNECTION TO (E) CLASSROOM BUILDINGS 32, 33, AND 34. THESE BUILDINGS WILL REMAIN OCCUPIED DURING THE COURSE OF CONSTRUCTION. COORDINATE TIMING OF REMOVAL WITH THE OWNER. REMOVE FEEDER CONDUCTORS BACK TO THE LIMIT OF EXCAVATION AND PRESERVE FOR SPLICING. REFER TO DRAWING E101 FOR RE-CONNECTION OF POWER CONNECTION TO BUILDINGS.

DEMOLITION NOTES

A. ELECTRICAL FACILITIES SHOWN DASHED ARE EXISTING:
   1. THOSE SHOWN LIGHTWEIGHT (FADED) SHALL REMAIN AND REQUIRE MODIFICATION AS NOTED.
   2. THOSE SHOWN HEAVYWEIGHT (DARK) REQUIRE REMOVAL OR RELOCATION AS NOTED.

B. EXISTING ELECTRICAL FACILITIES AND CIRCUITING SHOWN ARE BASED ON LIMITED RECORD DRAWINGS AND LIMITED SITE VISITS. THE DRAWINGS MAY NOT ACCURATELY REPRESENT ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND RING OUT EXISTING CIRCUITS TO DETERMINE EXACT ROUTING.

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
KIMBERLY M. BASTIAN
No. E19509
Exp. 6-30-25
ELECTRICAL

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

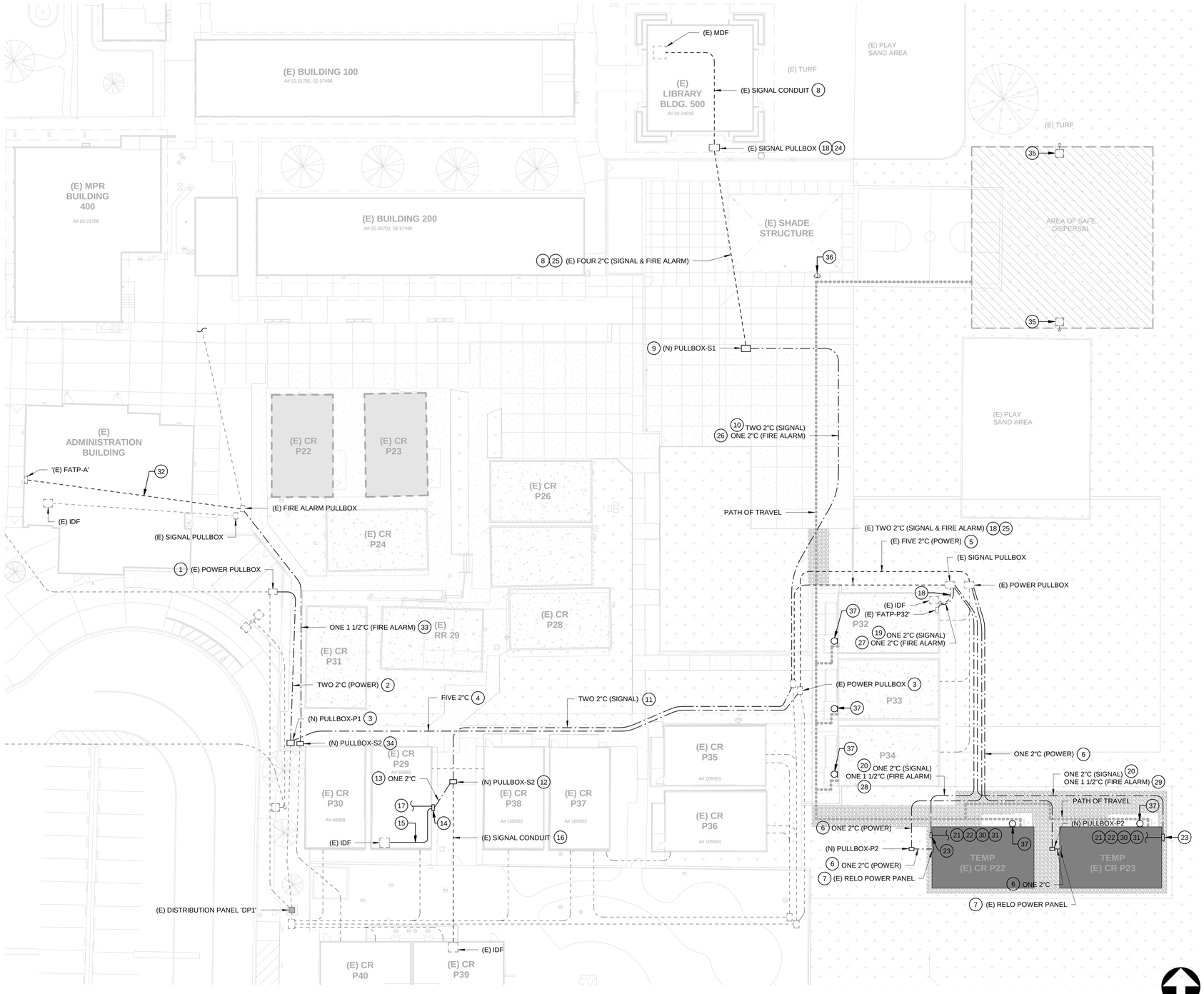
DRAWING TITLE
OVERALL DEMOLITION ELECTRICAL SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
E100

PLOT DATE: 2/28/2025 12:38:26 PM

\\tet-file1\Users\tatyana.aleksen_TETER\Documents\12259-E-MCSD-FRANKLIN ES PHASE 3_tatyana.aleksenko.rvt



KEYNOTES

1. INTERCEPT TWO (E) 100A 1-PHASE, 3-WIRE FEEDERS THAT PREVIOUSLY SUPPLIED REMOVED CLASSROOM BUILDINGS 26 AND 27 FROM MAIN SWITCHBOARD 'MSB'. (E) FEEDER CONDUCTORS SHALL BE UTILIZED TO SUPPLY RE-LOCATED BUILDINGS 22 & 23. SPLICE (N) PORTION OF FEEDER TO (E) PORTION OF FEEDER AT PULLBOX WITH INSULATED SUBMERSIBLE POWER CABLE CONNECTORS, POLARIS OR EQUAL.
2. TWO 2"C (POWER) WITH (N) PORTION OF FEEDERS TO RE-LOCATED BUILDINGS 22 & 23 PER SINGLE LINE DIAGRAM.
3. INTERCEPT (3) 100A, 3-PHASE, 4-WIRE FEEDERS THAT SUPPLY (E) CLASSROOM BUILDINGS 32, 33 AND 34 FROM MAIN SWITCHBOARD 'MSB'. PROVIDE (N) PULLBOX AT INTERCEPT LOCATION. SPLICE (N) PORTION OF FEEDER AT PULLBOX WITH INSULATED SUBMERSIBLE POWER CABLE CONNECTORS, POLARIS OR EQUAL.
4. FIVE 2"C (POWER) WITH (N) PORTIONS OF FEEDERS TO CLASSROOM BUILDINGS 22, 23, 32, 33 AND 24 PER SINGLE LINE DIAGRAM.
5. (E) FIVE 2"C (POWER). PORTIONS OF (E) FEEDERS IN THREE (E) 2"C SUPPLYING (E) CLASSROOM BUILDINGS 32, 33 AND 34 SHALL REMAIN. PROVIDE (N) PORTION OF FEEDERS IN TWO 2"C SPARES TO SUPPLY RE-LOCATED CLASSROM BUILDINGS 22 AND 23 PER SINGLE LINE DIAGRAM.
6. ONE 2"C (POWER). PROVIDE (N) PORTION OF FEEDER TO RE-LOCATED BUILDING PER SINGLE LINE DIAGRAM.
7. PROVIDE CONNECTION TO RE-LOCATED BUILDING POWER PANEL. PROVIDE GROUND ROD AND GROUNDING FACILITIES AT BUILDING PER DETAIL 7/E600.
8. PROVIDE THREE TYPE 'FO' CABLES AND TWO TYPE 'T12' CABLES IN (E) SIGNAL CONDUIT.
9. INTERCEPT (E) UNDERGROUND SIGNAL CONDUIT. PROVIDE PULLBOX AT INTERCEPT LOCATION.
10. ONE 2"C, THREE TYPE 'FO' CABLES + ONE 2"C, TWO TYPE 'T12' CABLES.
11. ONE 2"C, TWO TYPE 'FO' CABLES + ONE 2"C, ONE TYPE 'T12' CABLE.
12. INTERCEPT (E) SIGNAL CONDUIT TO CLASSROOM BUILDINGS 39 AND 40. PROVIDE (N) PULLBOX AT INTERCEPT LOCATION.
13. ONE 2"C, ONE TYPE 'FO' CABLE + ONE TYPE 'T12' CABLE.
14. PROVIDE 12" x 12" x 6" NEMA 3R PULLCAN AT BUILDING EXTERIOR FOR SIGNAL CABLE PENETRATION INTO BUILDING. INSTALL PULLCAN AT +80" AFG MINIMUM TO BOTTOM OF PULLCAN.
15. ROUTE ONE TYPE 'FO' CABLE TO RE-CONNECT (E) IDF.
16. ROUTE ONE TYPE 'FO' CABLE IN (E) UNDERGROUND SIGNAL CONDUIT TO RE-CONNECT (E) IDF.
17. UTILIZE (N) MULTI-PAIR COPPER CABLE TO RE-CONNECT (E) SECURITY DEVICES AND (E) PA SYSTEM SPEAKERS IN THIS GROUP OF CLASSROOMS AS NECESSARY. TRACE AND LOCATE (E) PUNCH BLOCK AND CONNECT (N) TYPE 'T12' CABLE TO THAT LOCATION.
18. ROUTE ONE TYPE 'FO' CABLE IN TO RE-CONNECT (E) IDF + ONE TYPE 'T12' CABLE (E) UNDERGROUND SIGNAL CONDUIT.
19. TWO 2"C, EIGHT TYPE 'DS' CABLES + ONE TYPE 'T6' CABLE, IN EACH CONDUIT.
20. ONE 2"C, EIGHT TYPE 'DS' CABLES + ONE TYPE 'T6' CABLE.
21. PROVIDE EIGHT TYPE 'D' CABLES IN CLASSROOM TO RE-CONNECT (E) DATA DEVICES IN RE-LOCATED CLASSROOM FROM (E) IDF IN CLASSROOM 32.
22. UTILIZE (N) MULTI-PAIR COPPER CABLE TO RE-CONNECT (E) SECURITY DEVICES AND (E) PA SYSTEM SPEAKERS IN THIS CLASSROOM AS NECESSARY.
23. PROVIDE 12" x 12" x 6" NEMA 3R PULLCAN MOUNTED TO BUILDING EXTERIOR.
24. CONNECT (N) PORTION OF FIRE ALARM SITE NETWORK CABLE TO (E) FIRE ALARM PANEL AT PULLBOX.
25. PROVIDE ONE TYPE 'FNET' CABLE IN (E) FIRE ALARM CONDUIT FOR RE-CONNECTION TO (E) FIRE ALARM TRANSPONDER PANEL IN CLASSROOM 32.
26. ONE 2"C, ONE TYPE 'FNET' CABLE.
27. ONE 2"C, TWO TYPE 'FAS' CABLES AND TWO TYPE 'FNS' CABLES TO RE-CONNECT (E) FIRE ALARM DEVICES IN CLASROOMS 22 AND 23 TO (E) FIRE ALARM TRANSPONDER PANEL AND (E) FIRE ALARM BOOSTER PANEL IN CLASSROOM 32.
28. ONE 1 1/2"C, ONE TYPE 'FAS' CABLE AND ONE TYPE 'FNS' CABLE TO RE-CONNECT (E) FIRE ALARM DEVICES IN CLASSROOM 22 TO (E) FIRE ALARM TRANSPONDER PANEL AND (E) FIRE ALARM BOOSTER PANEL IN CLASSROOM 32.
29. ONE 1 1/2"C, ONE TYPE 'FAS' CABLE AND ONE TYPE 'FNS' CABLE TO RE-CONNECT (E) FIRE ALARM DEVICES IN CLASSROOM 23 TO (E) FIRE ALARM TRANSPONDER PANEL AND (E) FIRE ALARM BOOSTER PANEL IN CLASSROOM 32.
30. PROVIDE TYPE 'FA' CABLE IN CLASSROOM TO RE-CONNECT (E) INITIATION DEVICES.
31. PROVIDE TYPE 'FN' CABLE IN CLASSROOM TO RE-CONNECT (E) NOTIFICATION DEVICES.
32. PROVIDE ONE TYPE 'FAS' CABLE, ONE TYPE 'FNS' CABLE, AND ONE TYPE 'FVS' CABLE IN (E) UNDERGROUND FIRE ALARM CONDUIT TO RE-CONNECT (E) FIRE ALARM DEVICES IN CLASSROOMS 39 AND 40 TO (E) FIRE ALARM TRANSPONDER PANEL AND (E) FIRE ALARM BOOSTER PANEL IN BUILDING A.
33. ONE 1 1/2"C, ONE TYPE 'FAS' CABLE, ONE TYPE 'FNS' CABLE, AND ONE TYPE 'FVS' CABLE.
34. INTERCEPT (E) UNDERGROUND FIRE ALARM CONDUIT SUPPLYING (E) FIRE ALARM DEVICES IN CLASSROOMS 39 AND 40. PROVIDE PULLBOX AT INTERCEPT LOCATION. SPLICE (E) FIRE ALARM CABLING TO (N) FIRE ALARM CABLING AT PULLBOX.
35. (E) POLE MOUNTED FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT AREA OF SAFE DISPERSAL.
36. (E) FLOOD LIGHTING FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL.
37. (E) EXTERIOR WALL MOUNTED LIGHTING FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. PROVIDE PULLBOXES PER DETAIL 1/E600.

C. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 2/E600. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINAL GRADE TO TOP OF CONDUIT.

D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

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REGISTERED PROFESSIONAL ENGINEER
KIMBERLY M. BASTIAN
No. E19509
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

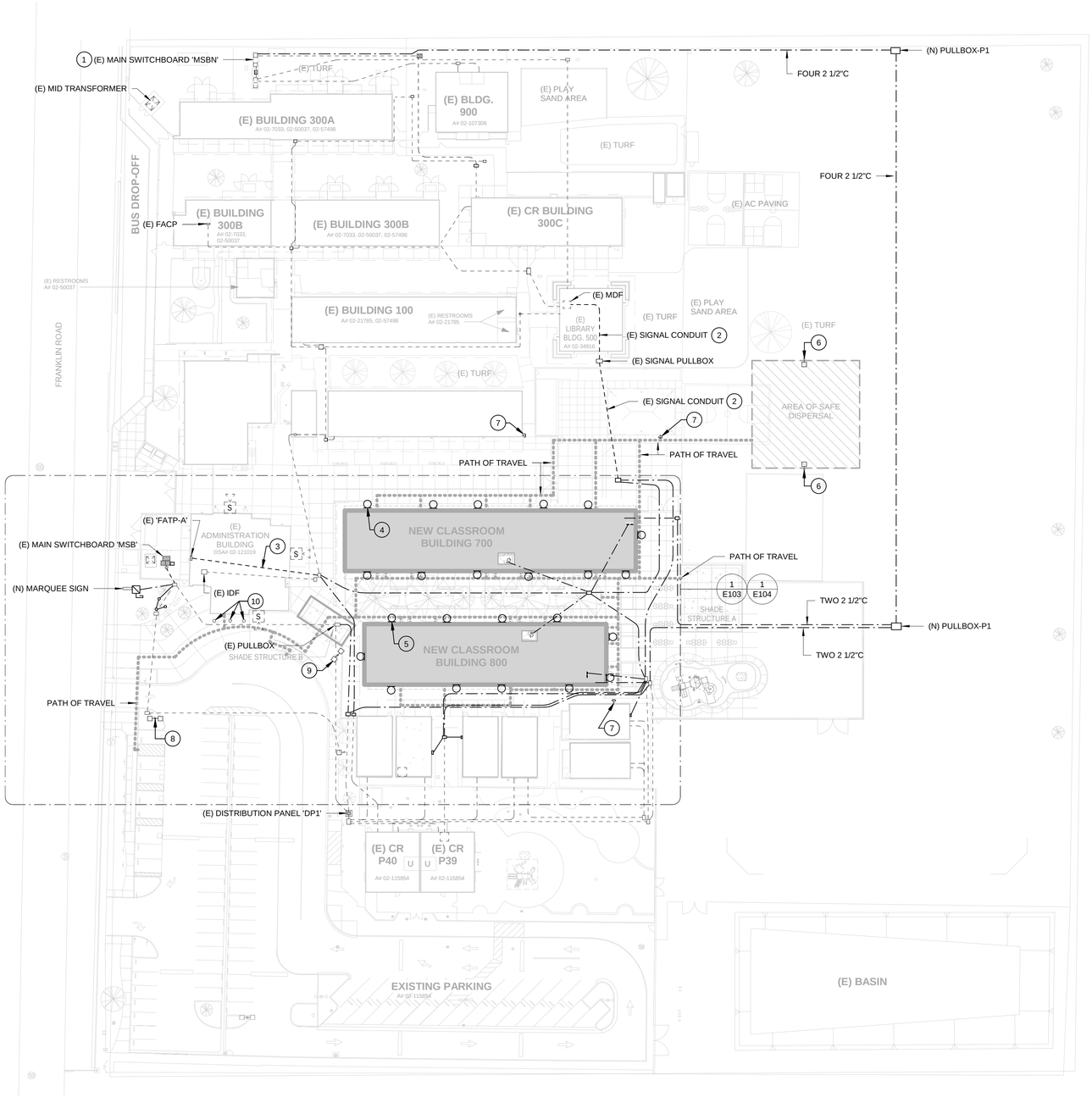
DRAWING TITLE
ELECTRICAL SITE PLAN - TEMP RELO

PROJECT NO.
23-12259.00

DRAWING
E101

ELECTRICAL SITE PLAN - TEMP RELO
1" = 20'-0"
1

PLOT DATE: 2/28/2025 12:38:30 PM
\\tet-file1\Users\tatyana.aleksen_TETR\Documents\12259-E-MCSD-FRANKLIN ES PHASE 3_tatyana.aleksenko.rvt



KEYNOTES

1. PROVIDE TWO 200A, 3-POLE CIRCUIT BREAKERS AT (E) MAIN SWITCHBOARD 'MSBN' FOR PROTECTION OF (N) FEEDERS TO (N) BUILDINGS PER SINGLE LINE DIAGRAM.
2. IN ADDITION TO CABLING INDICATED ON DRAWING E101, PROVIDE TWO TYPE 'FO' CABLES AND TWO TYPE 'T12' CABLES IN (E) SIGNAL CONDUIT.
3. IN ADDITION TO CABLING INDICATED ON DRAWING E101, PROVIDE TWO TYPE 'FNET' CABLES IN (E) FIRE ALARM CONDUIT.
4. (N) EXTERIOR WALL MOUNTED LIGHTING FIXTURES BY MODULAR BUILDING MANUFACTURER TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL, TYPICAL OF (12) AT CLASSROOM BUILDING 700.
5. (N) EXTERIOR WALL MOUNTED LIGHTING FIXTURES BY MODULAR BUILDING MANUFACTURER TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL, TYPICAL OF (12) AT CLASSROOM BUILDING 800.
6. (E) POLE MOUNTED AREA LIGHTING FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT AREA OF SAFE DISPERSAL.
7. (E) FLOOD LIGHTING FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL.
8. (E) POLE MOUNTED AREA LIGHTING FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL.
9. (E) RE-LOCATED POLE MOUNTED AREA LIGHTING FIXTURE TO REMAIN TO PROVIDE EGRESS ILLUMINATION AT PATH OF TRAVEL.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. PROVIDE PULLBOXES PER DETAIL 1/E600.

C. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 2/E600. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINAL GRADE TO TOP OF CONDUIT.

D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

OVERALL ELECTRICAL SITE PLAN

1" = 40'-0"

1

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REGISTERED PROFESSIONAL ENGINEER
CEM BASTIAN
No. E19509
Exp. 6-30-25
ELECTRICAL

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
ELECTRICAL SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
E102

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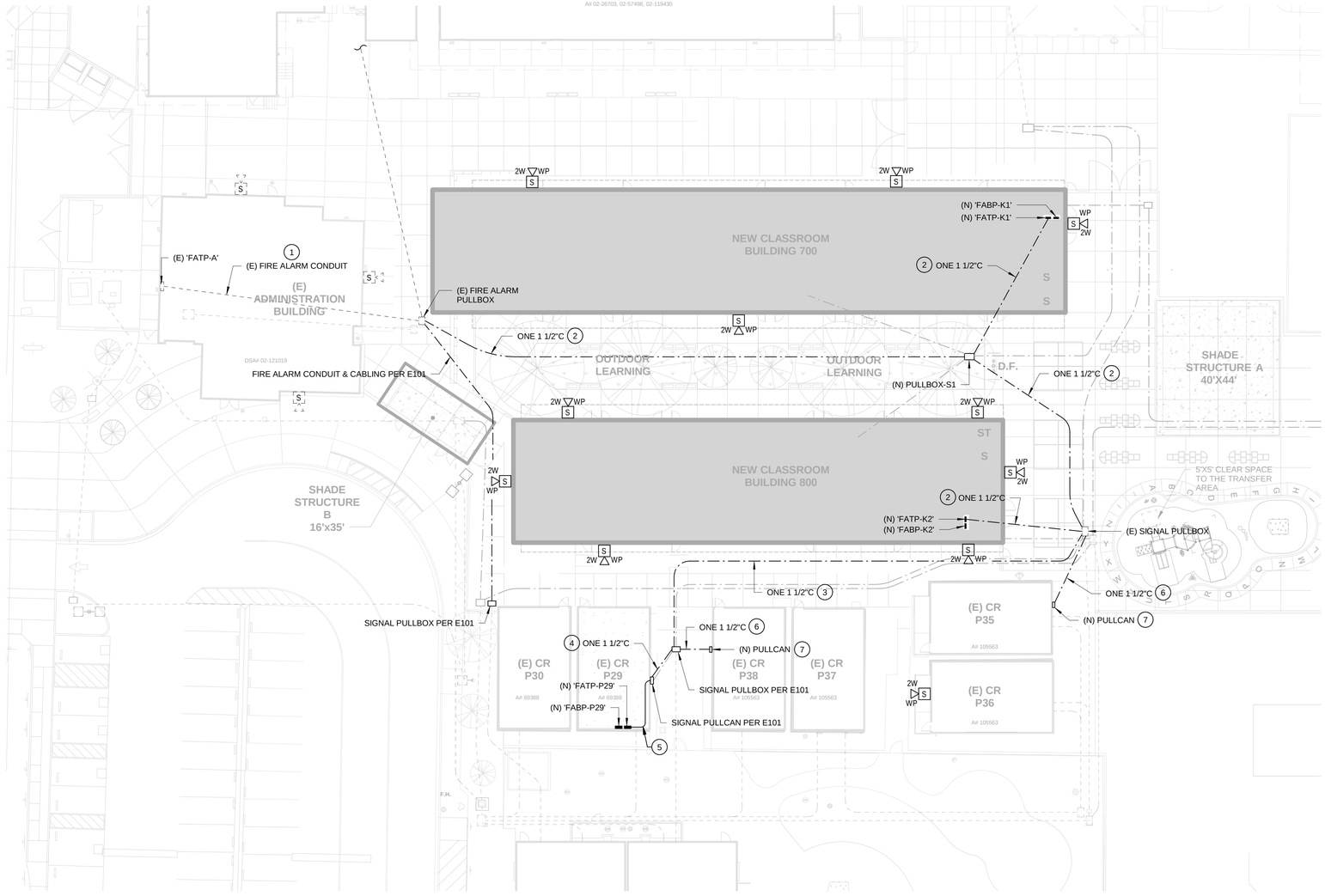

NORTH

FIRE ALARM SITE PLAN — 1" = 20'-0" — 1

KEYNOTES

1. IN ADDITION TO CABLING INDICATED ON DRAWING E101, PROVIDE (2) TYPE 'FNET' CABLES IN (E) FIRE ALARM CONDUIT.
2. ONE 1 1/2"C, (2) TYPE 'FNET' CABLES.
3. ONE 1 1/2"C WITH CABLES AS FOLLOWS:
   (2) 'FNET'
   (1) 'FAS'
   (1) 'FNS'
   (1) 'FVS'
4. ONE 1 1/2"C WITH CABLES AS FOLLOWS:
   (2) 'FNET'
   (2) 'FAS'
   (2) 'FNS'
   (2) 'FVS'
5. PROVIDE CABLES AS FOLLOWS IN ATTIC SPACE:
   (2) 'FNET'
   (2) 'FAS'
   (2) 'FNS'
   (2) 'FVS'
6. ONE 1 1/2"C WITH CABLES AS FOLLOWS:
   (1) 'FAS'
   (1) 'FNS'
   (1) 'FVS'
7. PROVIDE 12" x 12" x 6" NEMA 3R PULLCAN AT BUILDING EXTERIOR FOR CABLE PENETRATION INTO BUILDING. INSTALL PULLCAN AT +80" AFG MINIMUM TO BOTTOM OF PULLCAN.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. PROVIDE PULLBOXES PER DETAIL 1/E600.

C. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 2/E600. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINAL GRADE TO TOP OF CONDUIT.

D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

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REGISTERED PROFESSIONAL ENGINEER — KEVIN M. BASTIAN — No. E19509 Exp. 6-30-25 — ELECTRICAL

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
E103

PLOT DATE: 2/28/2025 12:38:37 PM

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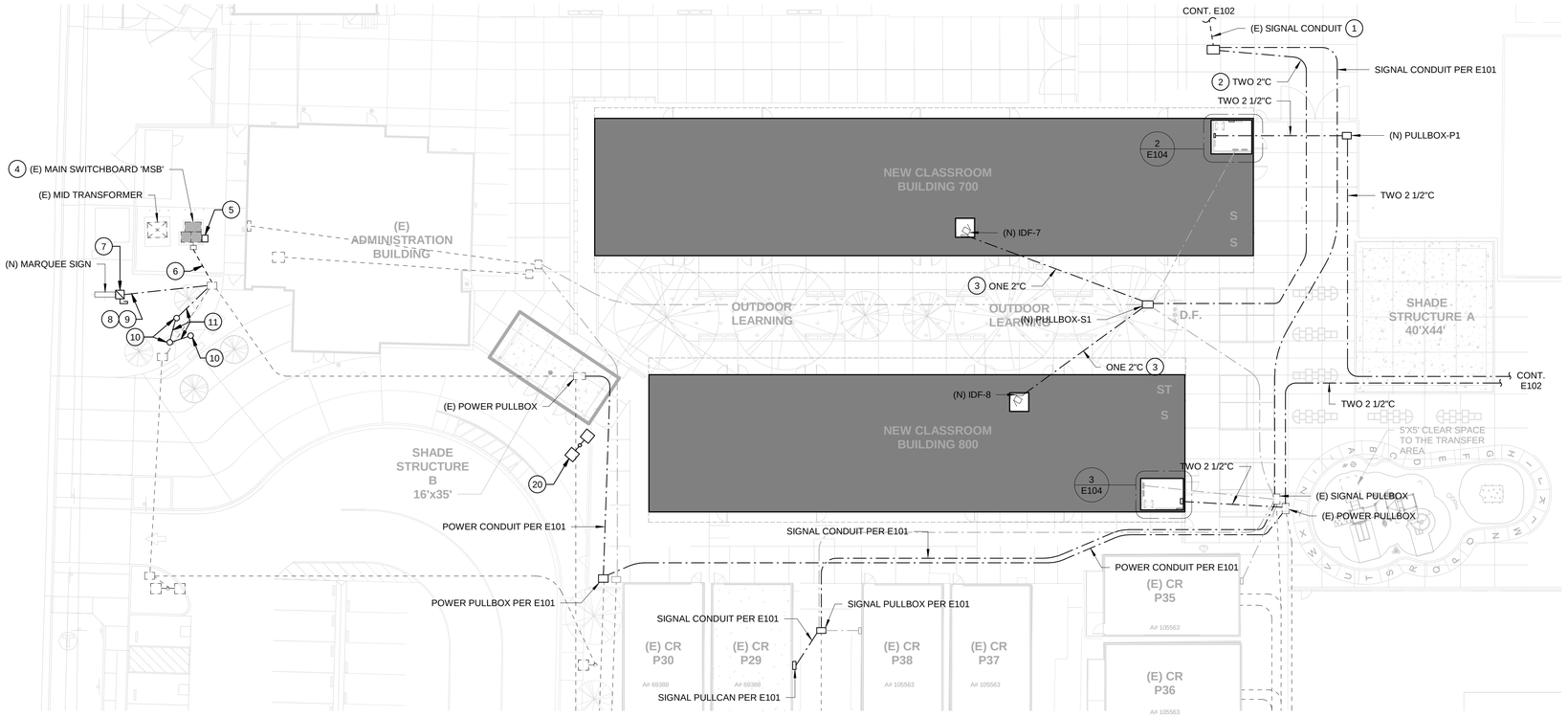
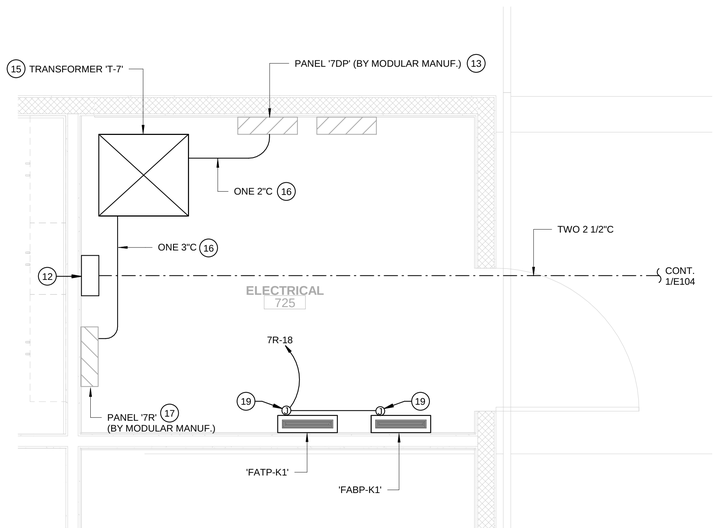
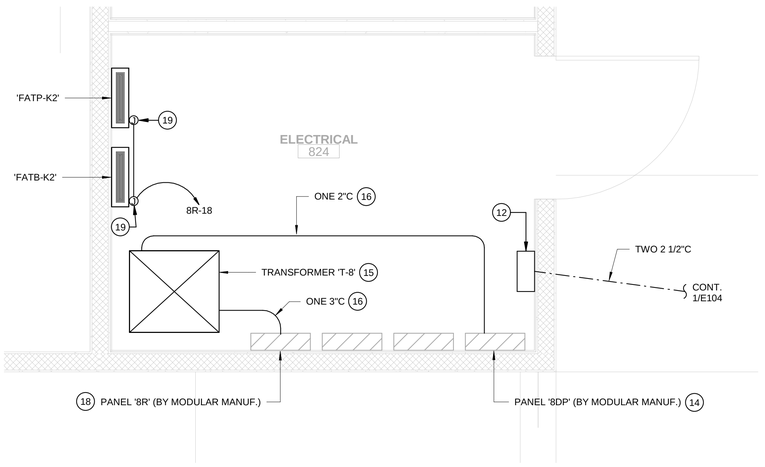


ENLARGED ELECTRICAL SITE PLAN — 1" = 20'-0" — 1



ENLARGED ELECTRICAL ROOM PLAN - BUILDING 700 — 1/2" = 1'-0" — 2



ENLARGED PLAN ELECTRICAL ROOM - BUILDING 800 — 1/2" = 1'-0" — 3

KEYNOTES

1. IN ADDITION TO CABLING INDICATED ON DRAWING E101, PROVIDE TWO TYPE 'FO' CABLES AND TWO TYPE 'T12' CABLES IN (E) SIGNAL CONDUIT.
2. TWO 2"C, ONE TYPE 'FO' CABLE AND ONE TYPE 'T12' CABLE IN EACH CONDUIT.
3. ONE 2"C, ONE TYPE 'FO' CABLE AND ONE TYPE 'T12' CABLE.
4. PROVIDE THREE 20A, 1-POLE CIRCUIT BREAKERS AT (E) MAIN SWITCHBOARD 'MSB' FOR PROTECTION OF (N) BRANCH CIRCUITS TO MARQUEE SIGN AND FLAGPOLE UPLIGHTING FIXTURES.
5. PROVIDE WEATHERPROOF ELECTRONIC 1-CIRCUIT TIME CLOCK, INTERMATIC #ET8215CR OR EQUAL, MOUNTED TO SIDE OF SWITCHBOARD FOR ON/OFF CONTROL OF FLAGPOLE UPLIGHTING FIXTURES. ROUTE (N) FLAGPOLE UPLIGHT BRANCH CIRCUIT THROUGH TIME CLOCK.
6. ROUTE 6#12 CU THWN, 2#12 CU GND THROUGH (E) UNDERGROUND POWER CONDUIT LEFT SPARE BY REMOVAL OF (E) BUILDINGS.
7. PROVIDE GENERAL DUTY NEMA 3R 250V, 30A, 2-POLE NON-FUSED DISCONNECT AT +6'-0" AFG ON MARQUEE SIGN COLUMN. PROVIDE (2) 120VAC POWER CONNECTIONS TO DUAL-FACE MARQUEE SIGN.
8. PROVIDE ONE 3/4"C, 4#12 CU THWN, 1#12 CU GND TO MARQUEE SIGN.
9. PROVIDE CHRISTY #F8 BOX AND GROUND ROD AT MARQUEE SIGN. PROVIDE 1#6 CU GND FROM GROUND ROD AND BOND TO SCOREBOARD COLUMN.
10. PROVIDE (3) IN-GRADE LIGHTING FIXTURES FOR FLAGPOLE UPLIGHTING AT 120-DEGREE SEPARATION, HYDREL #M9420C-A-LED-P1-40K-MVOLT-NFL-FLC10SR-34B-STR-DNA OR EQUAL. INSTALL PER DETAIL 17/E600. INSTALL 4'-0" FROM CENTER OF FLAGPOLE AND ADJUST FIXTURE AIMING AS NECESSARY.
11. ONE 3/4"C, 2#12 CU THWN, 1#12 CU GND BETWEEN IN-GRADE FIXTURES.
12. SITE CONTRACTOR SHALL PROVIDE 600V, 200A, 3-POLE FUSED DISCONNECT IN ELECTRICAL ROOM FOR CONNECTION TO MODULAR BUILDING. CONNECT TO SITE FEEDER PER SINGLE LINE DIAGRAM.
13. PANEL '7DP' BY MODULAR BUILDING MANUFACTURER. SITE CONTRACTOR SHALL PROVIDE ONE 125A, 3-POLE CIRCUIT BREAKER AT PANEL '7DP' FOR PROTECTION OF (N) TRANSFORMER 'T-7' PRIMARY FEEDER.
14. PANEL '8DP' BY MODULAR BUILDING MANUFACTURER. SITE CONTRACTOR SHALL PROVIDE ONE 125A, 3-POLE CIRCUIT BREAKER AT PANEL '7DP' FOR PROTECTION OF (N) TRANSFORMER 'T-7' PRIMARY FEEDER.
15. TRANSFORMER PROVIDED BY SITE CONTRACTOR. REFER TO DETAIL B/E1.1-PS FOR TRANSFORMER ANCHORAGE.
16. FEEDER BY SITE CONTRACTOR. REFER TO SINGLE LINE DIAGRAM.
17. SITE CONTRACTOR SHALL PROVIDE ONE 20A, 1-POLE CIRCUIT BREAKER AT PANEL '7R' FOR PROTECTION OF (N) FIRE ALARM PANEL BRANCH CIRCUIT. CIRCUIT BREAKER SHALL HAVE A RED MARKING, SHALL BE LABELED 'FIRE ALARM / ECS" AND SHALL HAVE A MECHANICAL LOCK-ON DEVICE.
18. SITE CONTRACTOR SHALL PROVIDE ONE 20A, 1-POLE CIRCUIT BREAKER AT PANEL '8R' FOR PROTECTION OF (N) FIRE ALARM PANEL BRANCH CIRCUIT. CIRCUIT BREAKER SHALL HAVE A RED MARKING, SHALL BE LABELED 'FIRE ALARM / ECS" AND SHALL HAVE A MECHANICAL LOCK-ON DEVICE.
19. PROVIDE 120VAC POWER CONNECTION TO FIRE ALARM PANEL.
20. RE-INSTALL (E) AREA LIGHT POLE AND FIXTURE AT THIS LOCATION. PROVIDE (N) FOOTING PER DETAIL 19/E600. INTERCEPT (E) UNDERGROUND LIGHTING BRANCH CIRCUIT THAT SUPPLIED (E) LIGHTING FIXTURE AT REMOVED LOCATION AND RE-ROUTE TO NEW LOCATION.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. PROVIDE PULLBOXES PER DETAIL 1/E600.

C. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 2/E600. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINAL GRADE TO TOP OF CONDUIT.

D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

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REGISTERED PROFESSIONAL ENGINEER
EVAN M. BASTIAN
No. E19509
Exp. 6-30-25
ELECTRICAL

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

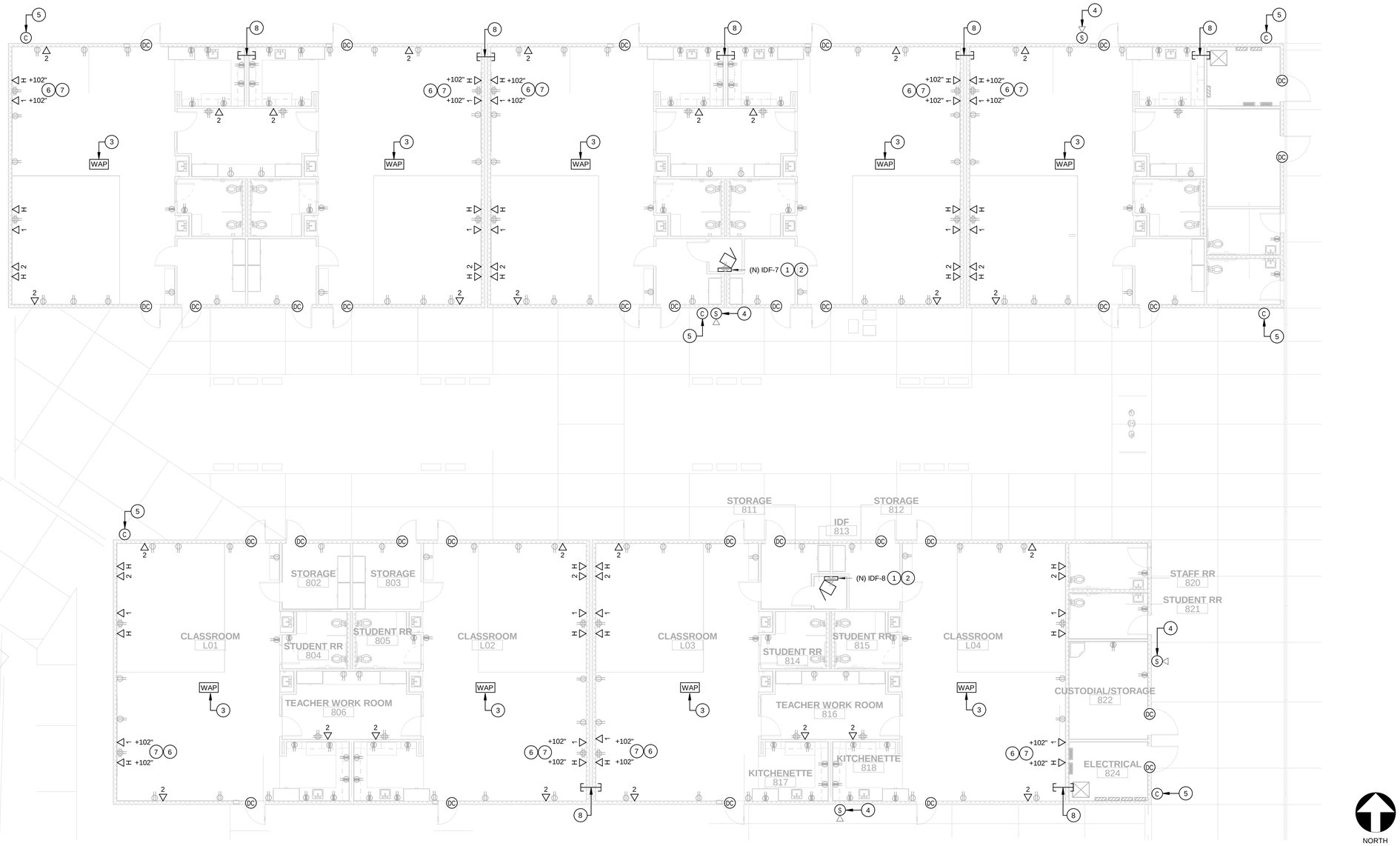
MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
ENLARGED ELECTRICAL SITE PLAN

PROJECT NO.
23-12259.00

DRAWING
E104

PLOT DATE: 2/28/2025 12:38:41 PM



SIGNAL PLAN - CLASSROOMS 700 & 800

1/8" = 1'-0" | 1

KEYNOTES

1. PROVIDE WALL MOUNT IDF CABINET. REFER TO DETAIL 12/E800.
2. PROVIDE ONE TYPE 'FO' CABLE FROM (N) IDF TO (E) MDF IN LIBRARY.
3. PROVIDE TWO TYPE 'D' CABLES TERMINATED IN SURFACE MOUNTED TWO PORT KEYSTONE JACK BOX ABOVE CEILING TO ACCOMMODATE INSTALLATION OF WIRELESS ACCESS POINT.
4. INSTALL OWNER FURNISHED IP PAGING SPEAKER.
5. INSTALL OWNER FURNISHED IP CAMERA.
6. INSTALL OWNER FURNISHED CLASSROOM PROJECTOR & SPEAKERS.
7. PROVIDE AUDIO-VISUAL CABLES PER DETAIL 11/E601.
8. PROVIDE ONE 2"C (LIQUID TIGHT FLEXIBLE METAL CONDUIT) BETWEEN ACCESSIBLE ATTIC SPACES TO FACILITATE SIGNAL CABLE INSTALLATION. REFER TO DETAIL 3/E600.

TELECOMMUNICATION PATHWAY NOTES

A. PROVIDE TWO 3"C.O. SLEEVES BETWEEN ROOM ATTIC SPACES TO FACILITATE TELECOMMUNICATION CABLE INSTALLATION.

TELECOMMUNICATION CABLING NOTES

A. EACH TELECOMMUNICATION CABLE SHALL BE HOMERUN FROM THE TELECOMMUNICATION OUTLET TO A PATCH PANEL LOCATED IN THE TELECOMMUNICATION ROOM.

B. TELECOMMUNICATION CABLES SHALL BE NEATLY BUNDLED WITH VELCRO STRAPS AT 36"O.C.

C. TELECOMMUNICATION CABLES SHALL BE INDEPENDENTLY SUPPORTED FROM J-HOOKS WITHIN THE ACCESSIBLE ATTIC SPACE WHERE THEY ARE NOT WITHIN CONDUIT OR SUPPORTED ON CABLE TRAY.

D. TELECOMMUNICATION CABLES SHALL BE TERMINATED WITH MODULAR JACKS ON PATCH PANELS IN THE TELECOMMUNICATION ENCLOSURE AND ON MODULAR JACKS AT THE TELECOMMUNICATION OUTLETS.

SECURITY AND ACCESS ROUGH-IN NOTES

A. SECURITY AND ACCESS SYSTEM ROUGH-IN REQUIREMENTS:

a. AT DOOR CONTACT LOCATIONS - DRILL 1/2" HOLE IN STRIKE SIDE OF DOOR FRAME AND THROUGH HEADER, INSTALL A PULL WIRE BETWEEN OPENING IN DOOR FRAME AND ACCESSIBLE ATTIC.

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ARCHITECTS ENGINEERS CONNECTED
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TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
SIGNAL PLAN - CLASSROOMS 700 & 800

PROJECT NO.
23-12259.00

DRAWING
E402

PLOT DATE: 2/28/2025 12:38:45 PM

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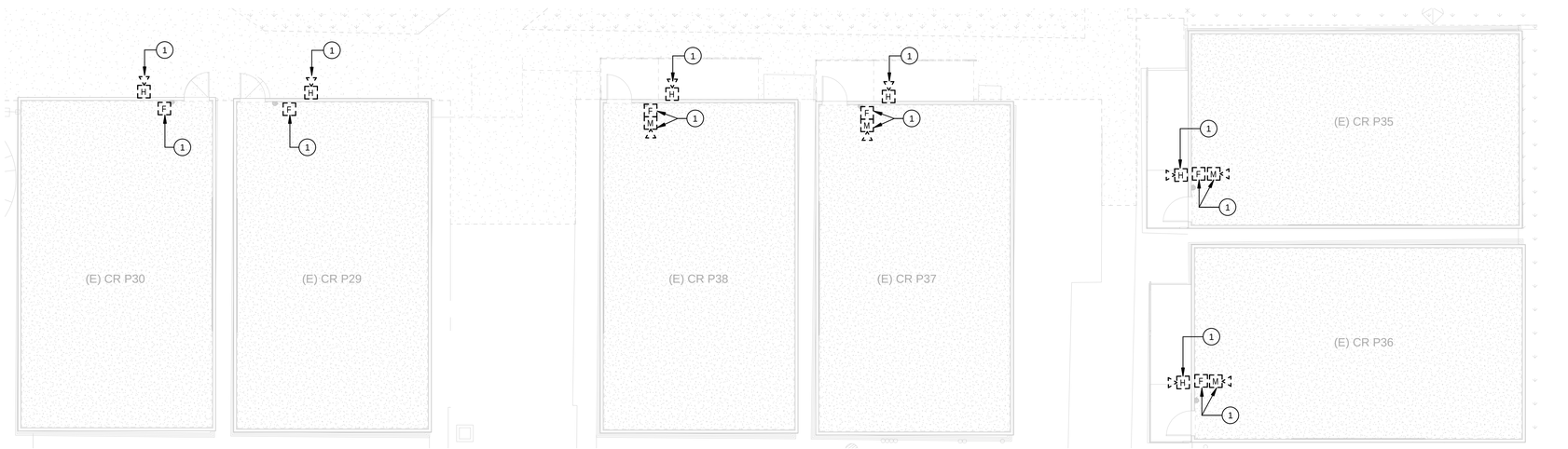
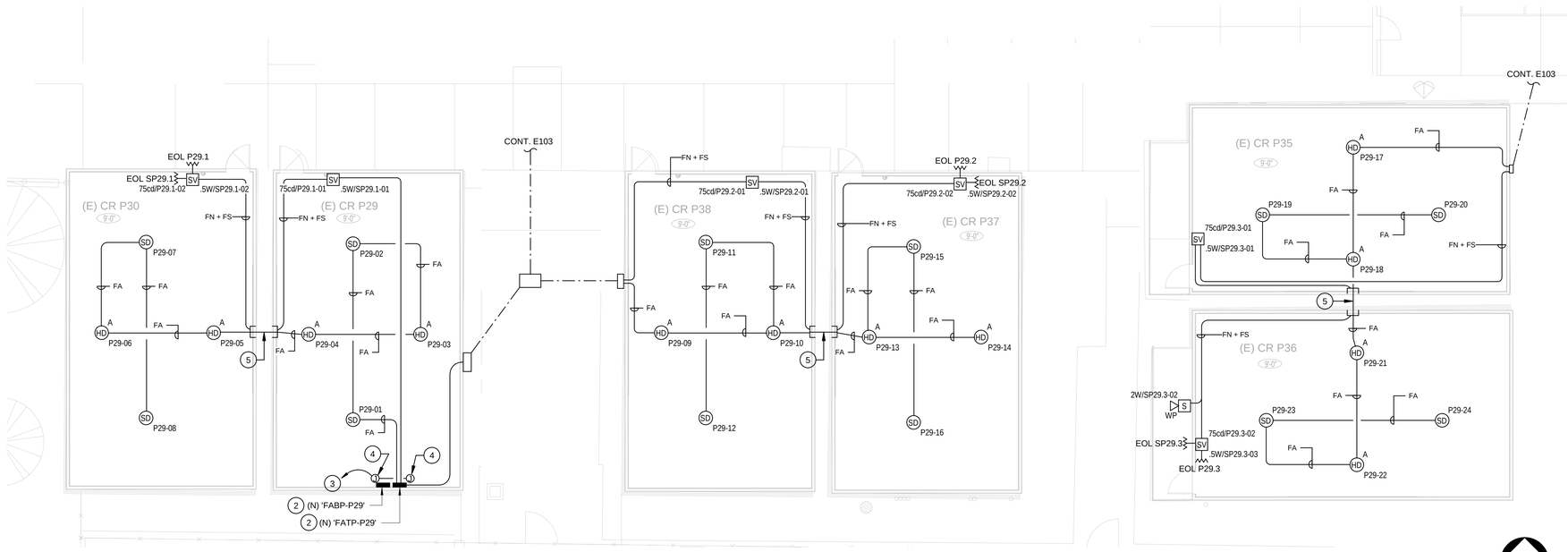


DEMOLITION FIRE ALARM PLAN - RELOCATABLE CLASSROOMS 29, 30, 35, 36, 37, 38 | 1/8" = 1'-0" | 1



FIRE ALARM PLAN - RELOCATABLE CLASSROOMS 29, 30, 35, 36, 37, 38 | 1/8" = 1'-0" | 2

PLOT DATE: 2/28/2025 12:38:46 PM

KEYNOTES

1. DISCONNECT AND REMOVE (E) FIRE ALARM DEVICE AND RETURN TO OWNER.
2. PROVIDE INTELLIGENT NETWORK TRANSPONDER PANEL 'FATP-P29', AND FIRE ALARM BOOSTER PANEL 'FABP-P29'. INSTALL PER DETAIL 6/E600.
3. PROVIDE ONE 20A, 1-POLE CIRCUIT BREAKER AT (E) CLASSROOM 29 POWER PANEL FOR PROTECTION OF (N) FIRE ALARM PANEL BRANCH CIRCUIT. CIRCUIT BREAKER SHALL HAVE A RED MARKING, SHALL BE LABELED 'FIRE ALARM / ECS" AND SHALL HAVE A MECHANICAL LOCK-ON DEVICE.
4. PROVIDE 120VAC POWER CONNECTION TO FIRE ALARM PANEL.
5. PROVIDE ONE 1"C (LIQUID TIGHT FMC) BETWEEN ACCESSIBLE ATTIC SPACES TO FACILITATE FIRE ALARM CABLE INSTALLATION. REFER TO DETAIL 3/E600.

FIRE ALARM SYSTEM INSTALLATION NOTES

A. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL PULL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY, AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.

B. ALL DRAWINGS ARE DIAGRAMMATIC ONLY, AND SHALL NOT BE USED IN DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION PROGRESSES.

C. ALL FIRE ALARM DATA, COMMUNICATIONS AND INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COVERING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DAMPER AND REMOTE TROUBLE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT.

D. ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. 'T' TAPPING IS ALLOWED ONLY IN INITIATION LOOPS CONNECTING ADDRESSABLE DEVICES AND ONLY UNDER THESE CONDITIONS. UNDER NO CIRCUMSTANCES SHALL 'T' TAPPING BE PERMITTED BETWEEN CONVENTIONAL DEVICES.

E. SMOKE DETECTORS SHALL BE INSTALLED AWAY FROM AIR SUPPLY GRILLES AT A MINIMUM DISTANCE OF 3' PER NFPA 72 29.8.3.4 OR GREATER AS RECOMMENDED BY THE MANUFACTURER.

F. CONTRACTOR SHALL SYNCHRONIZE TWO OR MORE STROBES IN ONE ROOM AND TWO OR MORE SPEAKERS WITHIN HEARING OF EACH OTHER.

G. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND THE 2022 CALIFORNIA FIRE CODE (CFC) § 105.7 & § 907, AND CALIFORNIA BUILDING CODE (CBC) 907.

H. CARBON MONOXIDE DETECTORS NOT REQUIRED IN CLASSROOMS DUE TO NO FUEL BURNING APPLIANCES PRESENT.

I. ATTIC HEAT DETECTORS SHALL BE LOCATED WITHIN 36" OF ROOF PEAK PER NFPA 72, 17.6.3.4.2.1.

DEMOLITION NOTES

A. ELECTRICAL FACILITIES SHOWN DASHED ARE EXISTING:

1. THOSE SHOWN LIGHTWEIGHT (FADED) SHALL REMAIN AND REQUIRE MODIFICATION AS NOTED.
2. THOSE SHOWN HEAVYWEIGHT (DARK) REQUIRE REMOVAL OR RELOCATION AS NOTED.

B. EXISTING ELECTRICAL FACILITIES AND CIRCUITING SHOWN ARE BASED ON LIMITED RECORD DRAWINGS AND LIMITED SITE VISITS. THE DRAWINGS MAY NOT ACCURATELY REPRESENT ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND RING OUT EXISTING CIRCUITS TO DETERMINE EXACT ROUTING.

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REGISTERED PROFESSIONAL ENGINEER CLYDE M. BASTIAN No. E19509 Exp. 6-30-25 ELECTRICAL

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM PLAN - RELOCATABLES

PROJECT NO.
23-12259.00

DRAWING
E501

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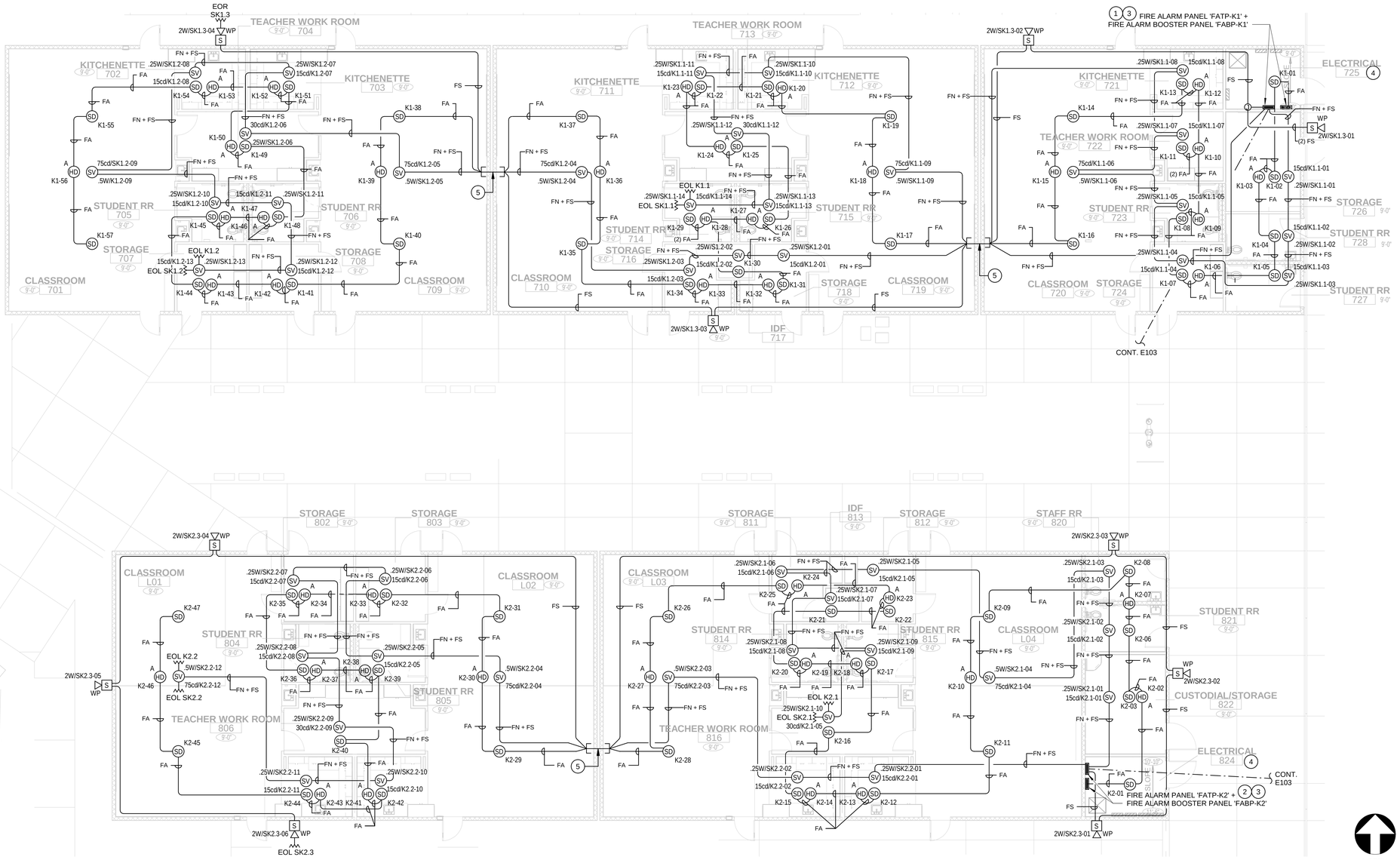

FIRE ALARM PLAN - NEW CLASSROOMS BUILDING '700' AND '800'

1/8" = 1'-0" | 1

KEYNOTES

1. PROVIDE INTELLIGENT NETWORK TRANSPONDER PANEL 'FATP-K1', AND FIRE ALARM BOOSTER PANEL 'FABP-K1'. INSTALL PER DETAIL 6/E600.
2. PROVIDE INTELLIGENT NETWORK TRANSPONDER PANEL 'FATP-K2', AND FIRE ALARM BOOSTER PANEL 'FABP-K2'. INSTALL PER DETAIL 6/E600.
3. PROVIDE POWER CONNECTION TO FIRE ALARM PANEL, REFER TO DRAWING E104.
4. NO ATTIC SPACE IN THIS AREA, CEILING IS ATTACHED DIRECTLY TO THE ROOF SUPPORTS.
5. PROVIDE ONE 1"C (LIQUID TIGHT FMC) BETWEEN ACCESSIBLE ATTIC SPACES TO FACILITATE FIRE ALARM CABLE INSTALLATION. REFER TO DETAIL 4/E600.

FIRE ALARM SYSTEM INSTALLATION NOTES

A. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL PULL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY, AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.

B. ALL DRAWINGS ARE DIAGRAMMATIC ONLY, AND SHALL NOT BE USED IN DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION PROGRESSES.

C. ALL FIRE ALARM DATA, COMMUNICATIONS AND INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COVERING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DAMPER AND REMOTE TROUBLE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT.

D. ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. 'T' TAPPING IS ALLOWED ONLY IN INITIATION LOOPS CONNECTING ADDRESSABLE DEVICES AND ONLY UNDER THESE CONDITIONS. UNDER NO CIRCUMSTANCES SHALL 'T' TAPPING BE PERMITTED BETWEEN CONVENTIONAL DEVICES.

E. SMOKE DETECTORS SHALL BE INSTALLED AWAY FROM AIR SUPPLY GRILLES AT A MINIMUM DISTANCE OF 3' PER NFPA 72 29.8.3.4 OR GREATER AS RECOMMENDED BY THE MANUFACTURER.

F. CONTRACTOR SHALL SYNCHRONIZE TWO OR MORE STROBES IN ONE ROOM AND TWO OR MORE SPEAKERS WITHIN HEARING OF EACH OTHER.

G. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND THE 2022 CALIFORNIA FIRE CODE (CFC) § 105.7 & § 907, AND CALIFORNIA BUILDING CODE (CBC) 907.

H. CARBON MONOXIDE DETECTORS NOT REQUIRED IN CLASSROOMS DUE TO NO FUEL BURNING APPLIANCES PRESENT.

I. ATTIC HEAT DETECTORS SHALL BE LOCATED WITHIN 36" OF ROOF PEAK PER NFPA 72, 17.6.3.4.2.1.

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REGISTERED PROFESSIONAL ENGINEER
EVAN M. BASTIAN
No. E19509
Exp. 6-30-25
CIVIL
STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM PLAN - CLASSROOMS 700 & 800

PROJECT NO.
23-12259.00

DRAWING
E502

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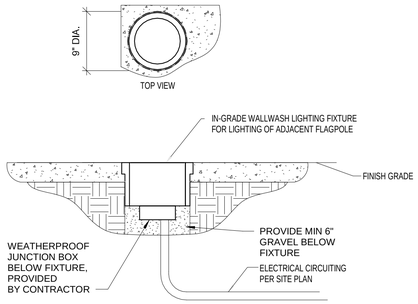
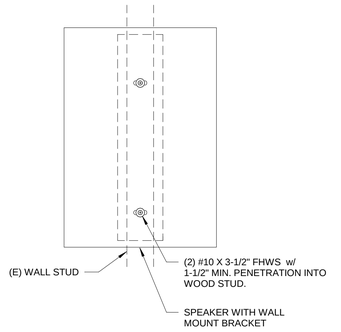
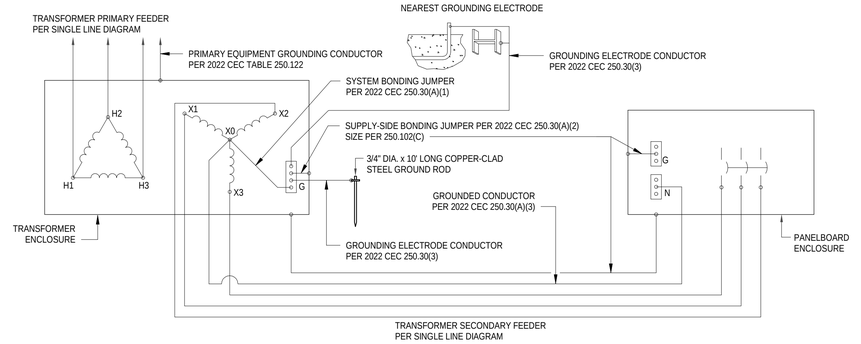


IN-GRADE FIXTURE MOUNTING — 17



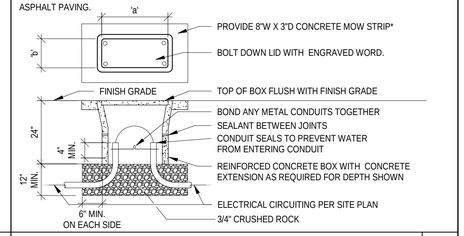
WALL MOUNT SPEAKER — 13



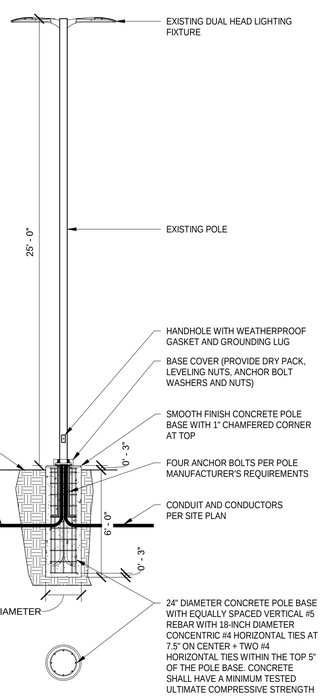
TRANSFORMER GROUNDING ELECTRODE SYSTEM — 5

*NOTE:
WHERE PULLBOX IS ADJACENT TO CONCRETE WALK, EXTEND MOWSTRIP TO CONNECT WITH WALK. CONCRETE MOW STRIP IS NOT REQUIRED ON PULLBOXES INSTALLED IN ASPHALT PAVING.

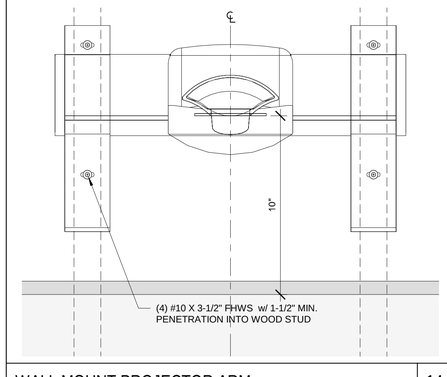
	DIMENSION 'a'	DIMENSION 'b'	ENGRAVING	LID TYPE
P1	36"	24"	POWER	CONCRETE
P2	22"	12"	POWER	CONCRETE
S1	36"	24"	SIGNAL	CONCRETE
S2	22"	12"	SIGNAL	CONCRETE



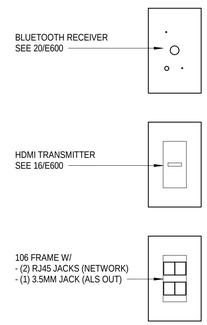
UNDERGROUND PULLBOX — 1



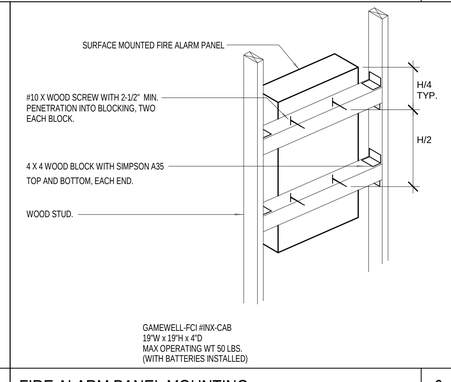
POLE FIXTURE MOUNTING — 19



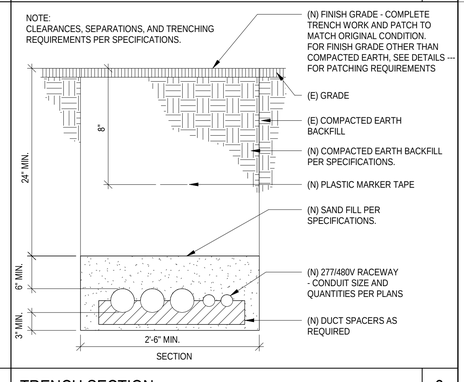
WALL MOUNT PROJECTOR ARM — 14



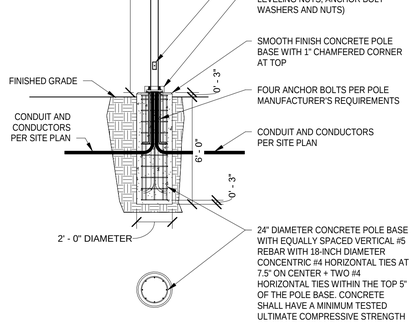
TEACHING STATION FACEPLATES — 10



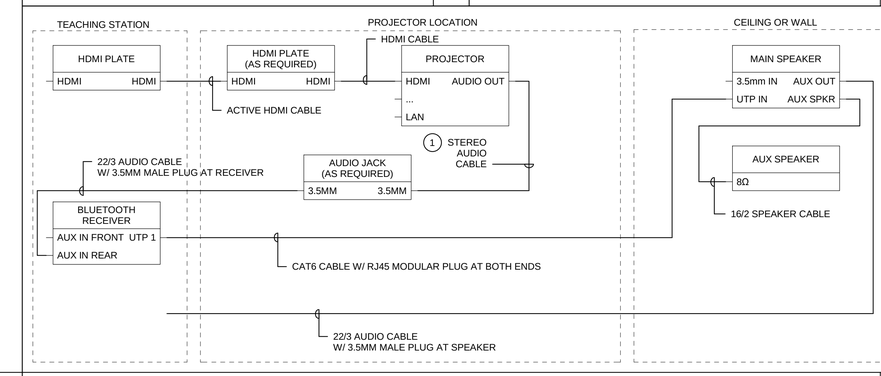
FIRE ALARM PANEL MOUNTING — 6



TRENCH SECTION — 2

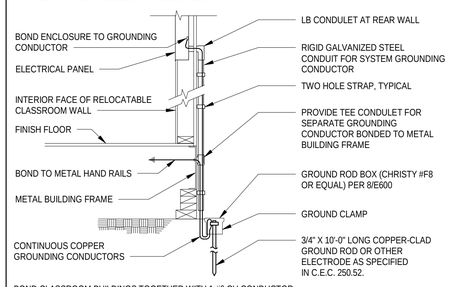


POLE FIXTURE MOUNTING — 19



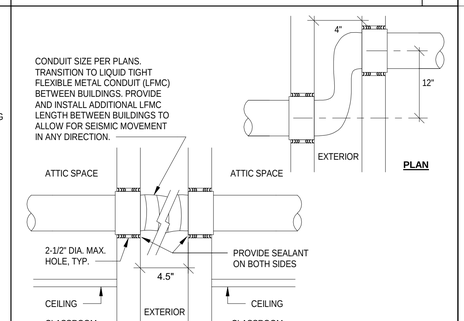
CLASSROOM A/V WIRING DIAGRAM — 11

THE GROUNDING ELECTRODE SYSTEM SHALL BE TESTED BY THE FALL OF POTENTIAL METHOD AS SPECIFIED IN IEEE STANDARD 81-1983 AND SHOWN TO BE 5 OHMS OR LESS. A COPY OF THE TEST REPORT, SIGNED BY THE PROJECT INSPECTOR WHO WITNESSED THE TEST, SHALL BE SUBMITTED TO THE ARCHITECT AND ELECTRICAL ENGINEER.

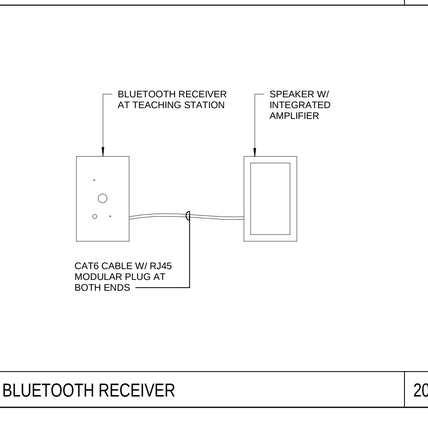


BOND CLASSROOM BUILDINGS TOGETHER WITH 1 #6 CU CONDUCTOR WHERE RELOCATABLES OCCUR SIDE BY SIDE.

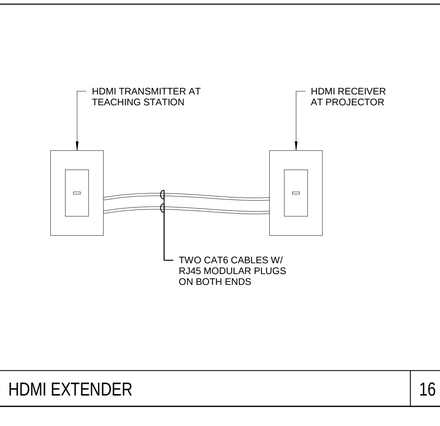
RELOCATABLE BUILDING GROUND — 7



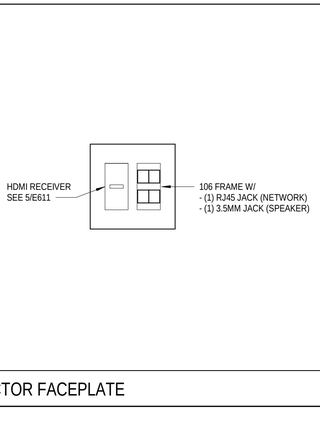
CONDUIT BETWEEN ATTIC SPACES - SHORT — 3



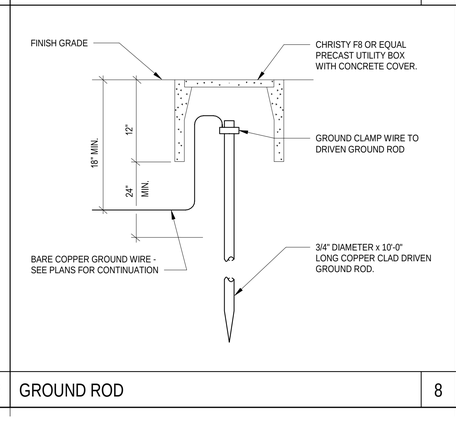
BLUETOOTH RECEIVER — 20



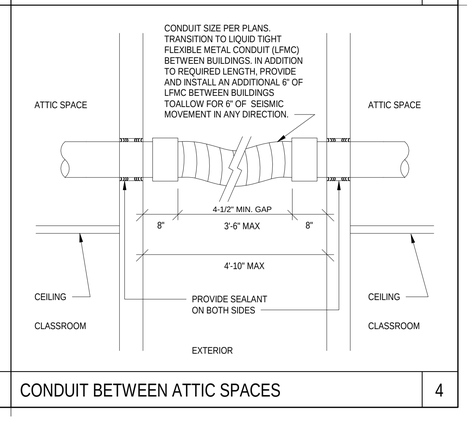
HDMI EXTENDER — 16



PROJECTOR FACEPLATE — 12



GROUND ROD — 8



CONDUIT BETWEEN ATTIC SPACES — 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER — EVAN M. BASTIAN — No. E19509 Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
ELECTRICAL DETAILS

PROJECT NO.
23-12259.00

DRAWING
E600

PLOT DATE: 2/28/2025 12:38:52 PM

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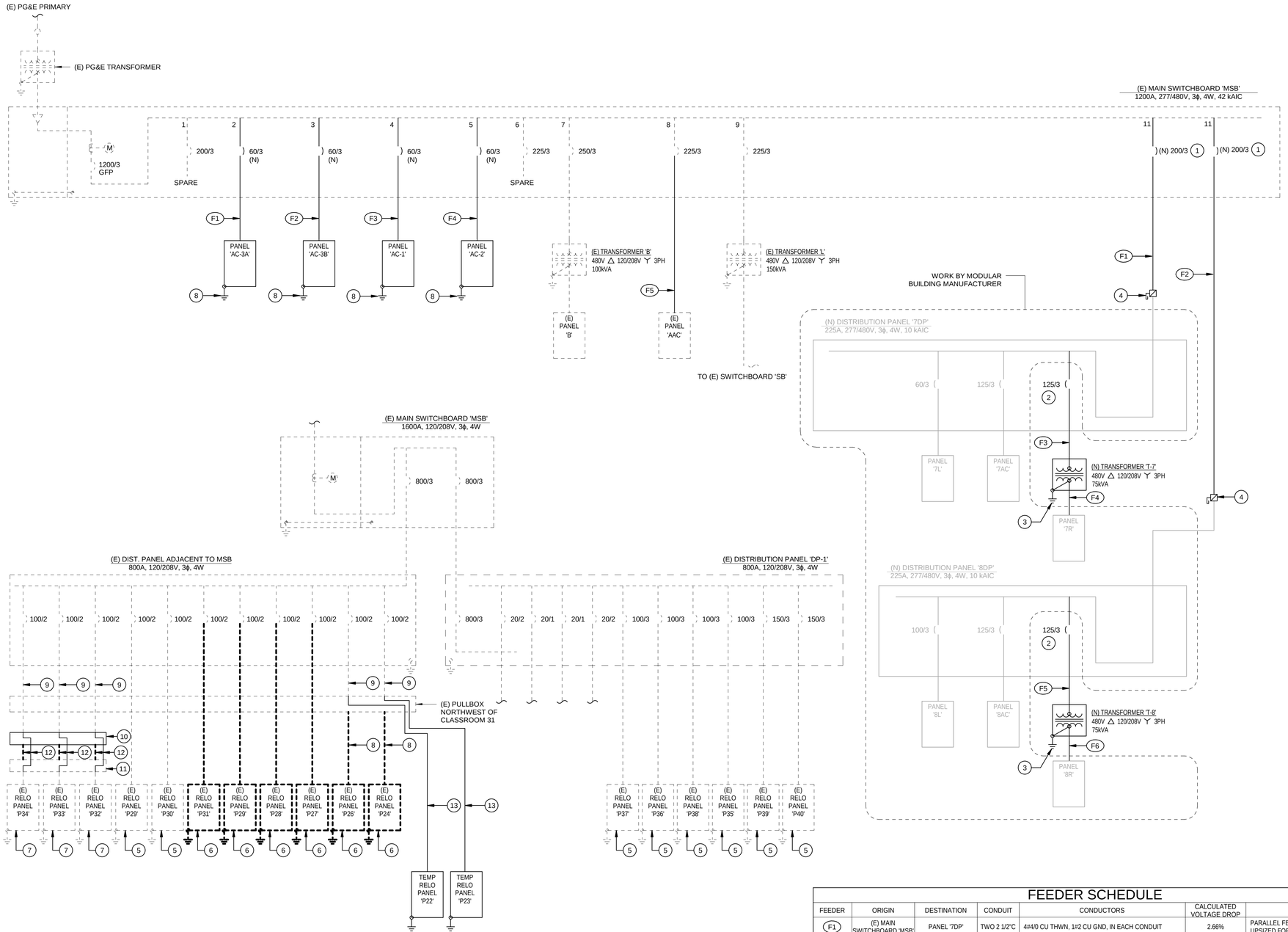

KEYNOTES

1. PROVIDE ONE (N) 200A, 3-POLE CIRCUIT BREAKER AT (E) MAIN SWITCHBOARD 'MSB' FOR PROTECTION OF (N) FEEDER.
2. PROVIDE ONE 125A, 3-POLE CIRCUIT BREAKER IN PANEL FOR PROTECTION OF (N) FEEDER.
3. PROVIDE GROUNDING ELECTRODE SYSTEM AT TRANSFORMER PER DETAIL 5/E600.
4. SITE CONTRACTOR SHALL PROVIDE 600V, 200A, 3-POLE FUSED DISCONNECT IN ELECTRICAL ROOM FOR CONNECTION TO MODULAR BUILDING. CONNECT TO SITE FEEDER.
5. (E) RELOCATABLE PANEL AND FEEDER TO REMAIN.
6. (E) RELOCATABLE PANEL AND FEEDER TO BE REMOVED.
7. (E) RELOCATABLE PANEL TO REMAIN FOR THE DURATION OF CONSTRUCTION. MODIFY (E) FEEDER AS INDICATED.
8. REMOVE (E) PORTION OF FEEDER.
9. (E) PORTION OF FEEDER SHALL REMAIN FOR RE-CONNECTION TO (N) PORTION OF FEEDER.
10. (N) PULLBOX NORTHWEST OF CLASSROOM 30, REFER TO E101.
11. (E) PULLBOX NORTHEAST OF CLASSROOM 33, REFER TO E101.
12. REMOVE (E) PORTION OF FEEDER AS INDICATED ON E101. PROVIDE (N) PORTION OF FEEDER CONSISTING OF ONE 2"C, 3#1 CU THWN, 1#6 CU GND WITH ROUTING PER E101. SPLICE FEEDER TO (E) FEEDER AT PULLBOXES WITH INSULATED SUBMERSIBLE POWER CABLE CONNECTORS, POLARIS OR EQUAL.
13. ONE 2"C, 3#1 CU THWN, 1#6 CU GND, SPLICE FEEDER TO (E) FEEDER AT PULLBOX WITH INSULATED SUBMERSIBLE POWER CABLE CONNECTORS, POLARIS OR EQUAL.

GENERAL NOTES

A. CIRCUIT BREAKERS SUPPLYING CLASS 1 TRANSFORMERS SHALL BE LOCKABLE IN THE OFF POSITION.

B. CIRCUIT IDENTIFICATION - A TYPEWRITTEN CIRCUIT DIRECTORY SHALL BE PROVIDED AT EACH PANELBOARD AND SWITCHBOARD IN ACCORDANCE WITH CEC ARTICLE 408.4(A). THE CONTRACTOR SHALL DEVELOP AND PREPARE THE CIRCUIT IDENTIFICATION DESCRIPTION BASED ON THE AS-BUILT CONDITION.

C. SOURCE OF SUPPLY IDENTIFICATION - ALL SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL HAVE A TYPEWRITTEN LABEL APPLIED INDICATING THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER CEC ARTICLE 408.4(B).

FEEDER SCHEDULE

FEEDER	ORIGIN	DESTINATION	CONDUIT	CONDUCTORS	CALCULATED VOLTAGE DROP	REMARKS
F1	(E) MAIN SWITCHBOARD 'MSB'	PANEL '7DP'	TWO 2 1/2"C	4#4/0 CU THWN, 1#2 CU GND, IN EACH CONDUIT	2.66%	PARALLEL FEEDER (TWO) UPSIZED FOR VOLTAGE DROP
F2	(E) MAIN SWITCHBOARD 'MSB'	PANEL '8DP'	TWO 2 1/2"C	4#4/0 CU THWN, 1#2 CU GND, IN EACH CONDUIT	2.54%	PARALLEL FEEDER (TWO) UPSIZED FOR VOLTAGE DROP
F3	PANEL '7DP'	TRANSFORMER 'T-7'	ONE 2"C	3#1 CU THWN, 1#6 CU GND	0.05%	FEEDER
F4	TRANSFORMER 'T-7'	PANEL '7R'	ONE 3"C	4#350 KCMIL CU THWN, 1#2 CU GND (SSBJ)	0.08%	FEEDER WITH SUPPLY-SIDE BONDING JUMPER
F5	PANEL '8DP'	TRANSFORMER 'T-8'	ONE 2"C	3#1 CU THWN, 1#6 CU GND	0.05%	FEEDER
F6	TRANSFORMER 'T-8'	PANEL '8R'	ONE 3"C	4#350 KCMIL CU THWN, 1#2 CU GND (SSBJ)	0.08%	FEEDER WITH SUPPLY-SIDE BONDING JUMPER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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2736 Franklin Road, Merced, CA

DRAWING TITLE
SINGLE LINE DIAGRAM

PROJECT NO.
23-12259.00

DRAWING
E700

PLOT DATE: 2/28/2025 12:38:54 PM

SINGLE LINE DIAGRAM

\\tet-file1\Users\tatyana.alekseni_TETR\Documents\122259-E-MCSD-FRANKLIN ES PHASE 3_tatyana.alekseniko.rvt

FIRE ALARM SYSTEM DESCRIPTION

THE FIRE ALARM SYSTEM DESCRIBED BY THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS IS A MANUAL AND AUTOMATIC SYSTEM. THIS SYSTEM UTILIZES SMOKE DETECTORS ON CEILINGS AND IN THE ROOMS HOUSING THE FIRE ALARM SYSTEM EQUIPMENT WITH HEAT DETECTORS IN ATTIC SPACES. THE SYSTEM IS ADDRESSABLE AND IS WIRED CLASS 'B' WITHIN THE BUILDINGS AND CLASS 'B' BETWEEN BUILDINGS.

FIRE ALARM APPROVAL

THE FIRE ALARM SYSTEM DESIGN IS A "COMPLETE PLAN SUBMITTAL" PER DSA FIRE ALARM SUBMITTAL GUIDELINES. THE CONTRACTOR SHALL INSTALL THE SYSTEM AS SHOWN AND AS HEREIN SPECIFIED. IF ANY SUBSTITUTION OF FIRE ALARM EQUIPMENT IS TO BE REQUESTED, SUCH REQUEST SHALL BE MADE A MINIMUM OF TWO WEEKS PRIOR TO PROJECT BID DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE SUBSTITUTION PER THE DSA GUIDELINES AND SHALL PAY ALL ADDITIONAL COSTS REQUIRED TO ACCOMMODATE REVIEW OF THE SUBSTITUTED FIRE ALARM SYSTEM BY DSA, WHETHER OR NOT SUCH APPROVAL IS GIVEN. THE CONTRACTOR'S SUBMITTAL SHALL INCLUDE MANUFACTURER'S CATALOG CUT SHEETS AND CSFM LISTING SHEETS FOR THE INDIVIDUAL COMPONENTS COMPRISING THE SUBSTITUTED FIRE ALARM SYSTEM, BATTERY LOAD CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR EACH SIGNALING CIRCUIT.

APPLICABLE CODES AND STANDARDS

2022 CA BUILDING CODE - CCR, TITLE 24, PART 2, VOLUMES 1 & 2
(2021 IBC AND CALIFORNIA AMENDMENTS)
2022 CA ELECTRICAL CODE - CCR, TITLE 24, PART 3
(2020 NEC AND CALIFORNIA AMENDMENTS)
2022 CA MECHANICAL CODE - CCR, TITLE 24, PART 4
(2021 UMC AND CALIFORNIA AMENDMENTS)
2022 CA PLUMBING CODE - CCR, TITLE 24, PART 5
(2021 UPC AND CALIFORNIA AMENDMENTS)
2022 CA FIRE CODE - CCR, TITLE 24, PART 9
(2021 IFC AND CALIFORNIA AMENDMENTS)
2022 CA REFERENCE STANDARDS CODE - CCR, TITLE 24, PART 12
2022 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS AND 2022 CALIFORNIA AMENDMENTS
2022 NFPA 72, NATIONAL FIRE ALARM CODE, AND 2022 CALIFORNIA AMENDMENTS
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS - CCR, TITLE 19
DSA GUIDELINES FOR FIRE AND LIFE SAFETY SYSTEMS, DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES.

FIRE ALARM GENERAL NOTES

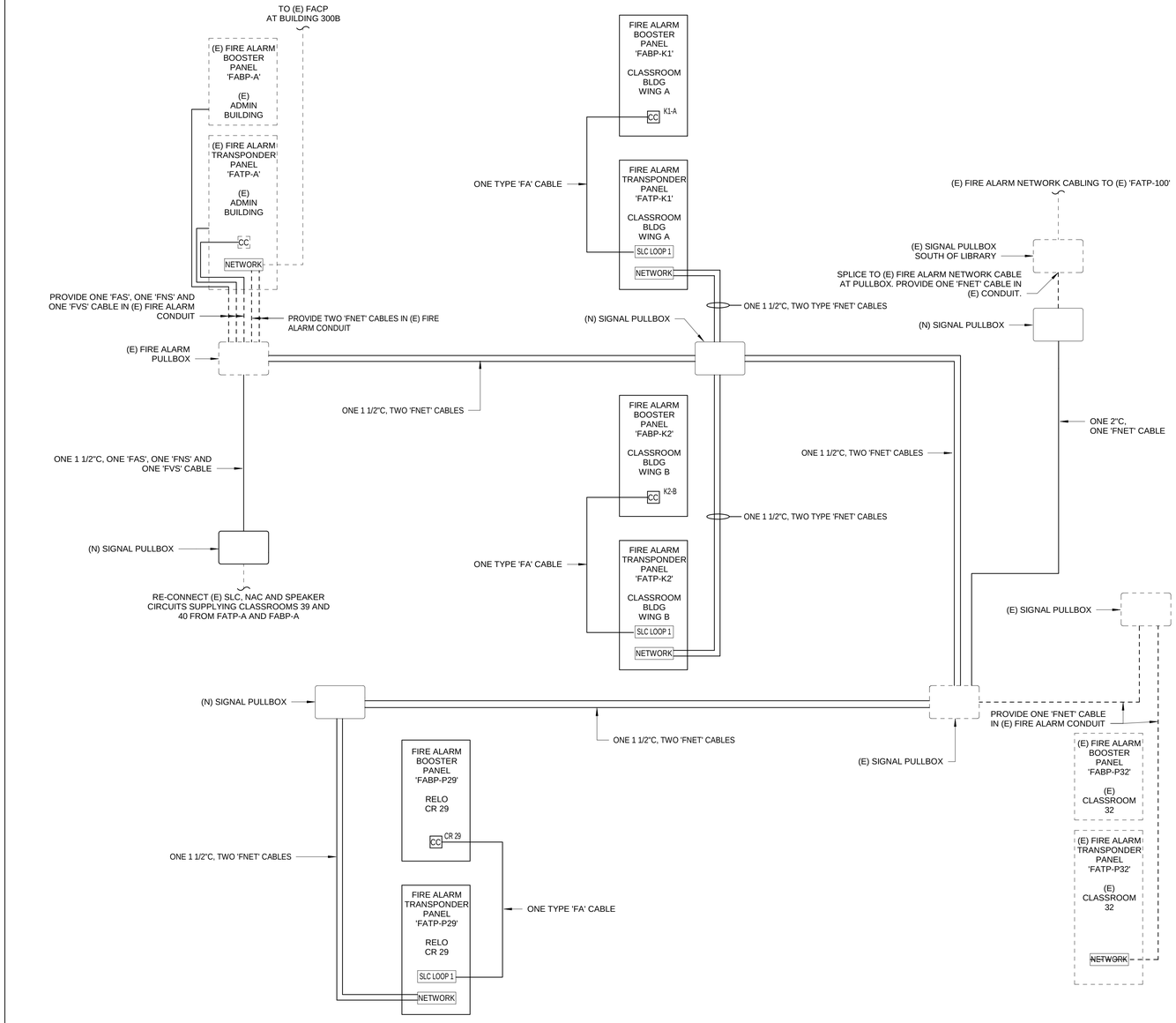
1. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATERTIGHT FITTINGS. (CEC 110.11 AND CEC 300.6)
2. OUTLETS ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL SPACING OF TWO FEET.
3. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
   a. PULL STATION - OPERABLE PART OF A MANUALLY ACTUATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" FROM FINISHED FLOOR; AND TOP OF BOX SHALL NOT BE MORE THAN 48" FROM FINISHED FLOOR. (CBC 11B 308.1.1, NFPA 72 17.14.5)
   b. INTERIOR AUDIBLE NOTIFICATION APPLIANCE - AT LEAST 90" TO THE TOP OF DEVICE ABOVE FINISHED FLOOR AND NOT LESS THAN 6" BELOW FINISHED CEILING. (NFPA 72 18.4.8.1)
   c. WALL-MOUNTED STROBE OR SPEAKER/STROBE - AT LEAST 80" TO BOTTOM OF LENS AND NOT GREATER THAN 96" TO TOP OF LENS ABOVE FINISHED FLOOR. (NFPA 72 18.5.5.1)
4. AUDIBLE SIGNAL DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF AT LEAST 15 dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT TEN FEET, OR MORE THAN 110 dBA IN TOTAL. (NFPA 72 18.4.3.1, 18.4.1.2 AND CFC 907.5.2.1.2)
5. AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS. (CFC 907.5.2.1.1)
6. AUDIBLE DEVICES SHALL SOUND THE CA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE. PROVIDE AT LEAST ONE EXTERIOR AUDIBLE DEVICE ON BUILDING FOR E OCCUPANCIES. (CFC 907.5.2.1.3)
7. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL COMPLY WITH CBC 907.2.3 AND NFPA 72 24.4.2
8. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH EVERY SECOND. (NFPA 72 18.5.3.1)
9. AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED AT THE LOCATION OF EACH FIRE ALARM CONTROL UNIT, NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION. (NFPA 72 10.4.4)
10. BRANCH CIRCUITS PROTECTING FIRE ALARM EQUIPMENT SHALL BE LABELED PER NFPA 72 10.6.5.2.2 AND SHALL INCLUDE A LISTED CIRCUIT BREAKER LOCKING DEVICE PER NFPA 72 10.6.5.4
11. COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY, AND DSA VIA THE PROJECT INSPECTOR. TESTING OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR OF RECORD (IOR). FINAL TEST SHALL INCLUDE READ OUT VERIFICATION FORM FROM CENTER STATION.
12. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CFC 907.8.5, NFPA 72 14.4.1.1, NFPA 72 14.5)

FIRE ALARM SYSTEM EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
(E) 'EVAC-A'	FIRE ALARM CONTROL PANEL 'EVAC-A': GAMEWELL-FCI E3 SERIES WITH AUTOMATIC CHARGING SYSTEM, AM-50-70 SERIES AMPLIFIER AND DACT-E3 (INSTALLED PER DSA #02-115854) C.S.F.M. #7165-1703:0125 (E) BATTERY 12V, 55AH SEALED: GAMEWELL-FCI #BAT-12550
(E) MIC LOC	LOCAL OPERATING CONSOLE (DIMENSIONS: 19 1/4"W x 10.0"H x 4 1/4"D. WEIGHT = 3Lbs): GAMEWELL-FCI #LOC WITH PAGING MICROPHONE #NCC-MIC, AND ANNUNCIATOR #NGA CSFM #7165-1703:0125
'FATP-K1' 'FATP-K2'	FIRE ALARM INTELLIGENT NETWORK TRANSPONDER PANEL RED, "C" - SIZE (DIMENSIONS: 30"H x19 3/8"W x 4 1/2"D). MAX WEIGHT = 47 LBS: GAMEWELL-FCI #INX-CAB-C WITH TWO BATTERIES MAX. 33 AH CAPACITY C.S.F.M. #6911-1703:0118
'FABP-K1' 'FABP-K2'	FIRE ALARM BOOSTER PANEL (DIMENSIONS: 16.65"W x19.0"H x 5.2"D): HONEYWELL #HPF-24S8 WITH AUTOMATIC CHARGER SYSTEM. MAX WEIGHT = 35 LBS. C.S.F.M. #7315-1637:0102
SD	ADDRESSABLE SMOKE DETECTOR (ON CEILING) FIXED TEMPERATURE 135F: GAMEWELL-FCI #ASD-PL3 C.S.F.M #7272-1703:0501 BASE: #B501 C.S.F.M. #7300-1653:0109
HD A	ADDRESSABLE HEAT DETECTOR (IN ATTIC) FIXED TEMPERATURE 190F: GAMEWELL-FCI #ATD-HL2F CSFM # 7270-1703:0115 BASE: #B501 C.S.F.M. #7300-1653:0109
CC	SUPERVISED CONTROL MODULE: GAMEWELL-FCI #AOM-2SF CSFM #7300-1703:0102
SV XX	ADDRESSABLE SPEAKER/STROBE ANNUNCIATOR - WALL MOUNTED (XX REPRESENTS CANDELA - 15, 30, 75, 110, 135, 185): EATON #ELSPSTR C.S.F.M. #7320-0785:0505
SV XX	SPEAKER/STROBE ANNUNCIATOR - CEILING MOUNTED (XX REPRESENTS CANDELA - 15, 30, 75, 110, 150, 177) EATON #ELSPSTWC CSFM #7320-0785:0505
2W S WP	ADDRESSABLE OUTDOOR SPEAKER - WALL MOUNTED: EATON #ET-1010-R W/WEATHERPROOF BACK BOX: EATON #WBB C.S.F.M. #7320-0785:0105
	END OF LINE SUPERVISION RELAY SYSTEM SENSOR #EOLR-1 CSFM # 7300-1653:0103

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.



FIRE ALARM SYSTEM OPERATIONAL MATRIX

DEVICE	ACTIVATE EVACUATION SIGNALS/STROBES	SHUTDOWN FIRE/SMOKE DAMPER, OR ACTIVATE SMOKE VENT RELEASE	SHUTDOWN HVAC EQUIPMENT	ANNUNCIATE AT BUILDING FACP AND ALL REMOTE ANNUNCIATORS	SEND SIGNAL TO CENTRAL STATION
FIRE ALARM PANEL SYSTEM TROUBLE				X	X
MANUAL PULL STATION	X			X	X
SMOKE DETECTOR	X	X		X	X
HEAT DETECTOR	X			X	X

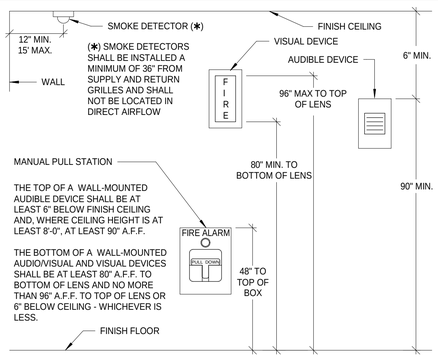
FIRE ALARM CABLE SCHEDULE

CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
'FNET'	1 PR, #16 AWG STRANDED UNSHIELDED AQUASEAL FPL	WEST PENN #AQC225	BLACK	FIRE ALARM	SITE COPPER FIRE ALARM NETWORK
'FA'	1 PR, #16 AWG SOLID UNSHIELDED FPL	WEST PENN #D990	RED	FIRE ALARM	ADDRESSABLE SLC LOOP CABLE - INTERIOR
'FAS'	1 PR, #16 AWG STRANDED UNSHIELDED AQUASEAL FPL	WEST PENN #AQC225	BLACK	FIRE ALARM	SITE ADDRESSABLE SLC LOOP CABLE - EXTERIOR/OUTDOOR
'FS'	1 PR, #14 AWG SOLID SHIELDED, FPLP	WEST PENN #60992B	RED	FIRE ALARM	AUDIBLE (SPEAKER) NOTIFICATION APPLIANCE CIRCUIT - INTERIOR
'FSS'	1 PR, #14 AWG SOLID SHIELDED, FPL	WEST PENN #AQC295	BLACK	FIRE ALARM	AUDIBLE (SPEAKER) NOTIFICATION APPLIANCE CIRCUIT - EXTERIOR/OUTDOOR
'FV'	1 PR, #12 SOLID UNSHIELDED FPLP	WEST PENN #60995B	RED	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT - INTERIOR
'FVS'	1 PR, #12 STRANDED UNSHIELDED FPL	WEST PENN #AQ227	BLACK	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT - EXTERIOR/OUTDOOR

SB575 - GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT REQUIREMENTS FOR AUTOMATIC FIRE ALARM SYSTEMS

THE FIRE DETECTION AND ALARM SYSTEM FOR THE AREAS AND/OR BUILDINGS WITHIN THE SCOPE OF WORK OF THIS PROJECT:

- [X] COMPLIES WITH SB575
  - [ ] A FULLY-AUTOMATIC SYSTEM HAS BEEN DESIGNED FOR ALL AREAS, OR
  - [ ] THE AREAS AND/OR BUILDINGS ARE SPRINKLERED ABOVE THE CEILING, SO HEAT DETECTORS ARE EXEMPTED FROM ABOVE-CEILING AREAS. THE SYSTEM IS OTHERWISE FULLY AUTOMATIC.
  - [X] AN AUTOMATIC DIALER TO A UL-APPROVED CENTRAL STATION:
    - [X] IS EXISTING, OR
    - [ ] IS INCLUDED AS PART OF THIS PROJECT.
- [ ] IS EXEMPT FROM SB575
  - [ ] THE TOTAL PROJECT CONSTRUCTION VALUE IS LESS THAN $200,000, OR
  - [ ] THE PROJECT CONSISTS OF ONLY MODULAR BUILDINGS WHICH ARE TEMPORARY; THESE BUILDINGS SHALL BE REMOVED NO MORE THAN THREE YEARS FROM THE INSTALLATION DATE UNLESS A THREE-YEAR EXTENSION IS APPROVED BY DSA, OR
  - [ ] THE PROJECT IS NOT FUNDED UNDER CHAPTER 12.5 OF THE LEROY F. GREENE SCHOOL FACILITIES ACT. IT WILL BE 100% FUNDED BY LOCAL FUNDS.



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GENERAL NOTES | FIRE ALARM EQUIPMENT LEGEND | FIRE ALARM NETWORK RISER DIAGRAM | SB575 COMPLIANCE | FIRE ALARM DEVICE ELEVATIONS | FIRE ALARM SYSTEM OPERATIONAL MATRIX | CABLE SCHEDULE

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACK/CHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER KIMBERLY M. BASTIAN No. E19509 Exp. 6-30-25 CIVIL STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM RISER DIAGRAM & NOTES

PROJECT NO.
23-12259.00

DRAWING
E710

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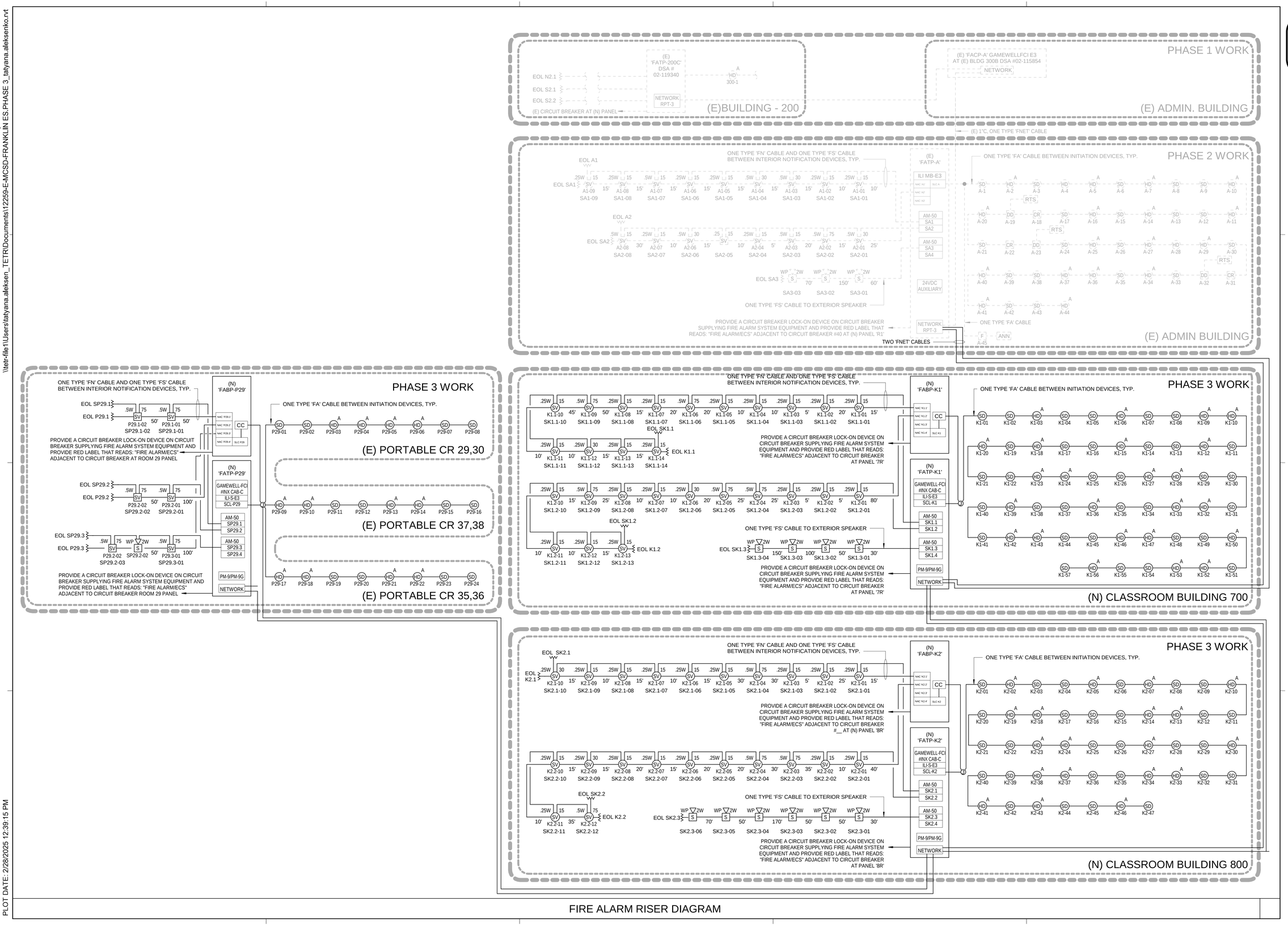

FIRE ALARM RISER DIAGRAM

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER CRAIG M. BASTIAN No. E19509 Exp. 6-30-25 ELECTRICAL

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

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MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM RISER DIAGRAM

PROJECT NO.
23-12259.00

DRAWING
E711

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FIRE ALARM BOOSTER PANEL 'FABP-K1' BUILDING '700' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	G-PS	Power Supply P/N HPFF8	0.0350	0.141	0.1410
1	CC	Control Module P/N AOM-2SF	0.00040	0.0065	0.0065
		NAC DEVICES:			
0	ELSTR-75cd	EATON Strobe 75cd #ELSTR (Wall Mounted)	0.0000	0.0600	0.0000
20	SV-15 (CEILING)	EATON Speaker/Strobe 15cd #ELSPSTWC	0.0000	0.0220	0.4400
2	SV-30 (CEILING)	EATON Speaker/Strobe 30cd #ELSPSTWC	0.0000	0.0300	0.0600
5	SV-75 (CEILING)	EATON Speaker/Strobe 75cd #ELSPSTWC	0.0000	0.0060	0.0300
0	SV-75 (WALL)	EATON Speaker/Strobe 75cd #ELSPSTR (wall)	0.0000	0.0600	0.0000
		TOTALS	0.0354		0.6775

TOTAL ALARM AMP-HOURS (15 MIN.) =	**0.25**	**HR**	**x 0.6775**	**A**	**=**	**0.1694 A-H**
TOTAL STANDBY AMP-HOURS (24 HRS) =	**24**	**HR**	**x 0.0354**	**A**	**=**	**0.8496 A-H**
TOTAL REQUIRED AMP-HOURS =					**=**	**1.0190 A-H**
TOTAL DESIGN AMP-HOURS WITH 25% SAFETY FACTOR =					**=**	**1.2737 A-H**
BATTERY CAPACITY REQUIREMENTS						**7.000 A-H**

NAC K1.1 VOLTAGE DROP CALCULATION - STROBE CIRCUIT

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
		NAC DEVICES:		
11	SV-15 (CEILING)	EATON Speaker/Strobe 15cd #ELSPSTWC	0.0220	0.2420
1	SV-30 (CEILING)	EATON Speaker/Strobe 30cd #ELSPSTWC	0.0300	0.0300
2	SV-75 (CEILING)	EATON Speaker/Strobe 75cd #ELSPSTWC	0.0600	0.1200
		TOTAL CURRENT ADDED TO CIRCUIT		**0.392**

LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =			**260**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.337**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**23.7 VDC**
PERCENT VOLTAGE DROP (%) =			**1.4 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

NAC K1.2 VOLTAGE DROP CALCULATION - STROBE CIRCUIT

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
		NAC DEVICES:		
9	SV-15 (CEILING)	EATON Speaker/Strobe 15cd #ELSPSTWC	0.0220	0.1980
1	SV-30 (CEILING)	EATON Speaker/Strobe 30cd #ELSPSTWC	0.0300	0.0300
3	SV-75 (CEILING)	EATON Speaker/Strobe 75cd #ELSPSTWC	0.0600	0.1800
		TOTAL CURRENT ADDED TO CIRCUIT		**0.408**

LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =			**255**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.344**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**23.7 VDC**
PERCENT VOLTAGE DROP (%) =			**1.43 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

FIRE ALARM TRANSPONDER PANEL 'FATP-K1' BUILDING '700' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT/ DEVICE	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	ILI-MB-E3	Intelligent Loop Interface - Main Board	0.0810	0.0810	0.1500	0.1500
1	PM-9	Power Supply P/N PM-9	0.0500	0.0500	0.0910	0.0910
1	INI-VGC	Intel. Network Command Center (INI-VGC)	0.1500	0.1500	0.1500	0.1500
2	AM-50	Amplifier Sub-assembly, 50 watt 25V (AM-50)	0.0860	0.1720	2.2060	4.4120
1	RPT-E3-UTP	ARCNET Repeater (RPT-E3)	0.0160	0.0160	0.0170	0.0170
		SLC DEVICES (in Classroom Bldg '700'):				
33	SD	Smoke DETECTOR GAMEWELL-FCI #ASD-PL3	0.0003	0.0099	0.0065	0.2145
24	HD(A)	HEAT DETECTOR IN ATTIC GAMEWELL-FCI #ATD-HL2F	0.0002	0.0052	0.0045	0.1080
0	AM	Addressable Monitor Module GAMEWELL-FCI #AMM-4F	0.0004	0.0000	0.0050	0.0000
0	CR	Control Relay Module GAMEWELL-FCI #AOM-2RF	0.0003	0.0000	0.0003	0.0000
0	DD	DUCT SMOKE DETECTOR SYSTEM SENSOR #D4120	0.0210	0.0000	0.0650	0.0000
0	CO	CARBON MONOXIDE DETECTOR GAMEWELL-FCI #MCS-COF	0.0003	0.0000	0.0072	0.0000
		VOICE EVACUATION SYSTEM SPEAKERS:		**SPEAKER POWER (W)**		
22	ELSPST-1/4W	Speaker , 24 vdc, (1/4 Watt)		0.25		0.2292
5	ELSPST-1/2W	Speaker , 24 vdc, (1/2 Watt)		0.5		0.1042
0	ELSPST-1W	Speaker , 24 vdc, (1 Watt)		1		0.0000
4	ET-1010-R (2-Watt)	Speaker , 24 vdc, (1/4 Watt)		2		0.3333
		TOTALS		**0.4841**		**5.8092**

TOTAL ALARM AMP-HOURS (15 MIN.) =	**0.25**	**HR**	**x 5.809**	**A**	**=**	**1.4523 A-H**
TOTAL STANDBY AMP-HOURS (24 HRS) =	**24**	**HR**	**x 0.484**	**A**	**=**	**11.6174 A-H**
TOTAL REQUIRED AMP-HOURS =					**=**	**13.0697 A-H**
TOTAL DESIGN AMP-HOURS WITH 25% SAFETY FACTOR =					**=**	**16.3372 A-H**
BATTERY CAPACITY REQUIREMENT					**=**	**33.0000 A-H**
TOTAL SPEAKER WATTAGE - AMP #1					**=**	**8.00 W**
REQUIRED AMPLIFIER WATTAGE (+25% INSERTION LOSS FACTOR)					**=**	**10.00 W**
SPECIFIED AMPLIFIER WATTAGE					**=**	**25.00 W**
TOTAL SPEAKER WATTAGE - AMP #2					**=**	**8.00 W**
REQUIRED AMPLIFIER WATTAGE (+25% INSERTION LOSS FACTOR)					**=**	**10.00 W**
SPECIFIED AMPLIFIER WATTAGE					**=**	**25.00 W**

dB LINE LOSS CALCULATION

SPEAKER VOLTAGE = 25

SPEAKERS	DEVICE POWER (WATTS)	SIGNAL CKT SK1.1 QTY.	SIGNAL CKT SK1.1 WATTS	SIGNAL CKT SK1.2 QTY.	SIGNAL CKT SK1.2 WATTS	SPEAKER QTY TOTAL.	MIN. AMPLIFIER SIZE (WATTS)
SPEAKER - 1/4 WATT TAP	0.25	12	3	10	2.5	22	**10.00**
SPEAKER - 1/2 WATT TAP	0.5	2	1	3	1.5	5	
SPEAKER - 1 WATT TAP	1	0	0	0	0	0	
SPEAKER - 2 WATT TAP	2	0	0	0	0	0	
TOTAL POWER ON CKT (P) WATTS		4		4		8.00	
LOAD RESISTANCE (LR) OHMS		157		157			
TOTAL WIRE LENGTH (D) FT		260		255			
WIRE SIZE		14 AWG		14 AWG			
TOTAL WIRE RESISTANCE (WR) OHMS		1.6952		1.6626			
POWER LOSS (PL) dB		-0.05		-0.05			

FORMULAS

WIRE RESISTANCE (R) (OHMS/Kft)*		
18 AWG	=	8.08
16 AWG	=	5.08
14 AWG	=	3.26
12 AWG	=	2.05
*VALUES PER CEC		

TOTAL WIRE RESISTANCE (WR) = (R / 1000) * D
LOAD RESISTANCE (LR) = (SPEAKER VOLTAGE)^2 / P
POWER LINE LOSS (PL) = 10 * LOG (1- (WR / (WR+LR)) ...

SK1.3 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
4	SPK-2W	VOICE EVACUATION SPEAKERS (2W) GAMEWELL - FCI E90	2.00	0.0800	0.3200
		TOTAL SPEAKER WATTAGE	8.00		
		TOTAL CURRENT ADDED TO CIRCUIT			0.320

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**330**
ACTUAL SIZE OF WIRE INSTALL... 12 AWG		**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.349**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**24.7 VDC**
PERCENT VOLTAGE DROP (%) =			**1.4 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

SK1.2 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
10	**SPK-1/4W**	**VOICE EVACUATION SPEAKERS (0.25W) GAMEWELL - FCI E90**	**0.25**	**0.0100**	**0.1000**
3	**SPK-1/2W**	**VOICE EVACUATION SPEAKERS (0.5W) GAMEWELL - FCI E90**	**0.50**	**0.0200**	**0.0600**
0	**SPK-1W**	**VOICE EVACUATION SPEAKERS (1`W) GAMEWELL - FCI E91**	**1.00**	**0.0400**	**0.0000**
		TOTAL SPEAKER WATTAGE	**4.00**		
		TOTAL CURRENT ADDED TO CIRCUIT			**0.160**

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**255**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.135**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**24.9 VDC**
PERCENT VOLTAGE DROP (%) =			**0.54 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

dB LINE LOSS CALCULATION

SPEAKER VOLTAGE = 25

SPEAKERS	DEVICE POWER (WATTS)	SIGNAL CKT SK1.3 QTY.	SIGNAL CKT SK1.3 WATTS	SIGNAL CKT SK1.4 - SPARE QTY.	SIGNAL CKT SK1.4 - SPARE WATTS	SPEAKER QTY TOTAL.	MIN. AMPLIFIER SIZE (WATTS)
SPEAKER - 1/4 WATT TAP	0.25	0	0	0	0	0	**10**
SPEAKER - 1/2 WATT TAP	0.5	0	0	0	0	0	
SPEAKER - 1 WATT TAP	1	0	0	0	0	0	
SPEAKER - 2 WATT TAP	2	4	8	0	0	4	
TOTAL POWER ON CKT (P) WATTS		8		0		8	
LOAD RESISTANCE (LR) OHMS		79		-			
TOTAL WIRE LENGTH (D) FT		350		0			
WIRE SIZE		14 AWG		14 AWG			
TOTAL WIRE RESISTANCE (WR) OHMS		2.282		-			
POWER LOSS (PL) dB		-0.13		-			

FORMULAS

WIRE RESISTANCE (R) (OHMS/Kft)*		
18 AWG	=	8.08
16 AWG	=	5.08
14 AWG	=	3.26
12 AWG	=	2.05
*VALUES PER CEC		

TOTAL WIRE RESISTANCE (WR) = (R / 1000) * D
LOAD RESISTANCE (LR) = (SPEAKER VOLTAGE)^2 / P
POWER LINE LOSS (PL) = 10 * LOG (1- (WR / (WR+LR)))

SK1.1 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
12	SPK-1/4W	VOICE EVACUATION SPEAKERS (0.25W) GAMEWELL - FCI E90	0.25	0.0100	0.1200
2	SPK-1/2W	VOICE EVACUATION SPEAKERS (0.5W) GAMEWELL - FCI E90	0.50	0.0200	0.0400
0	SPK-1W	VOICE EVACUATION SPEAKERS (1W) GAMEWELL - FCI E90	1.00	0.0400	0.0000
		TOTAL SPEAKER WATTAGE	4.00		
		TOTAL CURRENT ADDED TO CIRCUIT			0.160

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**260**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.138**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**24.9 VDC**
PERCENT VOLTAGE DROP (%) =			**0.55 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

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ARCHITECTS ENGINEERS CONNECTED
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2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM CALCULATIONS

PROJECT NO.
23-12259.00

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E712

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FIRE ALARM BOOSTER PANEL 'FABP-K2' BUILDING '800' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	G-PS	Power Supply P/N HPFF8	0.0350	0.1410	0.1410
1	CC	Control Module P/N AOM-2SF	0.0004	0.0065	0.0065
		NAC DEVICES:			
16	SV-15 (CEILING)	EATON Speaker/Strobe 15cd #ELSPSTWC	0.0000	0.0220	0.3520
2	SV-30 (CEILING)	EATON Speaker/Strobe 30cd #ELSPSTWC	0.0000	0.0300	0.0600
4	SV-110 (CEILING)	EATON Speaker/Strobe 110cd #ELSPSTWC	0.0000	0.0860	0.3440
		TOTALS	0.0354		0.9035

TOTAL ALARM AMP-HOURS (15 MIN.) =	**0.25 HR**	**x 0.904 A**	**=**	**0.2259 A-H**
TOTAL STANDBY AMP-HOURS (24 HRS) =	**24 HR**	**x 0.0354 A**	**=**	**0.8496 A-H**
TOTAL REQUIRED AMP-HOURS =			**=**	**1.0755 A-H**
TOTAL DESIGN AMP-HOURS WITH 25% SAFETY FACTOR =			**=**	**1.3443 A-H**
BATTERY CAPACITY REQUIREMENTS				**7.000 A-H**

NAC K2.1 VOLTAGE DROP CALCULATION - STROBE CIRCUIT

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
		CEILING MOUNTED NAC DEVICES:		
8	SV-15 (CEILING)	EATON Speaker/Strobe 15cd #ELSPSTWC	0.0220	0.1760
1	SV-30 (CEILING)	EATON Speaker/Strobe 30cd #ELSPSTWC	0.0300	0.0300
1	SV-75 (CEILING)	EATON Speaker/Strobe 75cd #ELSPSTWC	0.0060	0.0060
		TOTAL CURRENT ADDED TO CIRCUIT		**0.212**

LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =			**170**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.119**
PERCENT VOLTAGE DROP (%) =			**0.5 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT
WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

NAC K2.2 VOLTAGE DROP CALCULATION - STROBE CIRCUIT

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
		CEILING MOUNTED NAC DEVICES:		
8	SV-15 (CEILING)	EATON Speaker/Strobe 15cd #ELSPSTWC	0.0220	0.1760
1	SV-30 (CEILING)	EATON Speaker/Strobe 30cd #ELSPSTWC	0.0300	0.0300
3	SV-75 (CEILING)	EATON Speaker/Strobe 75cd #ELSPSTWC	0.0060	0.0180
		TOTAL CURRENT ADDED TO CIRCUIT		**0.224**

LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =			**265**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.196**
PERCENT VOLTAGE DROP (%) =			**0.82 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT
WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

FIRE ALARM TRANSPONDER PANEL 'FATP-K2' BUILDING '800' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT/ DEVICE	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	ILI-MB-E3	Intelligent Loop Interface - Main Board	0.0810	0.0810	0.1500	0.1500
1	PM-9	Power Supply P/N PM-9	0.0500	0.0500	0.0910	0.0910
1	INI-VGC	Intel. Network Command Center (INI-VGC)	0.1500	0.1500	0.1500	0.1500
2	AM-50	Amplifier Sub-assembly, 50 watt 25V (AM-50)	0.0860	0.1720	2.2060	4.4120
1	RPT-E3-UTP	ARCNET Repeater (RPT-E3)	0.0160	0.0160	0.0170	0.0170
		SLC DEVICES (in Classroom Bldg '800'):				
28	SD	Smoke DETECTOR GAMEWELL-FCI #ASD-PL3	0.0003	0.0084	0.0065	0.1820
19	HD(A)	HEAT DETECTOR IN ATTIC GAMEWELL-FCI #ATD-HL2F	0.0002	0.0041	0.0045	0.0855
0	AM	Addressable Monitor Module GAMEWELL-FCI #AMM-4F	0.0004	0.0000	0.0050	0.0000
0	CR	Control Relay Module GAMEWELL-FCI #AOM-2RF	0.0003	0.0000	0.0003	0.0000
0	DD	DUCT SMOKE DETECTOR SYSTEM SENSOR #D4120	0.0210	0.0000	0.0650	0.0000
0	CO	CARBON MONOXIDE DETECTOR GAMEWELL-FCI #MCS-COF	0.0003	0.0000	0.0072	0.0000
		VOICE EVACUATION SYSTEM SPEAKERS:		**SPEAKER POWER (W)**		
18	ELSPST-1/4W	Speaker , 24 vdc, (1/4 Watt)		0.25		0.1875
4	ELSPST-1/2W	Speaker , 24 vdc, (1/2 Watt)		0.5		0.0833
0	ELSPST-1W	Speaker , 24 vdc, (1 Watt)		1		0.0000
6	ET-1010-R (2-Watt)	Speaker , 24 vdc, (1/4 Watt)		2		0.5000
		TOTALS		**0.4815**		**5.8583**

TOTAL ALARM AMP-HOURS (15 MIN.) =	**0.25**	**HR x 5.858 A**	**=**		**1.4646 A-H**
TOTAL STANDBY AMP-HOURS (24 HRS) =	**24**	**HR x 0.481 A**	**=**		**11.5556 A-H**
TOTAL REQUIRED AMP-HOURS =			**=**		**13.0202 A-H**
TOTAL DESIGN AMP-HOURS WITH 25% SAFETY FACTOR =			**=**		**16.2753 A-H**
BATTERY CAPACITY REQUIREMENT			**=**		**33.0000 A-H**

TOTAL SPEAKER WATTAGE - AMP #1	**=**	**6.50 W**
REQUIRED AMPLIFIER WATTAGE (+25% INSERTION LOSS FACTOR)	**=**	**8.125 W**
SPECIFIED AMPLIFIER WATTAGE	**=**	**25.00 W**
TOTAL SPEAKER WATTAGE - AMP #2	**=**	**12.00 W**
REQUIRED AMPLIFIER WATTAGE (+25% INSERTION LOSS FACTOR)	**=**	**15.00 W**
SPECIFIED AMPLIFIER WATTAGE	**=**	**25.00 W**

dB LINE LOSS CALCULATION

SPEAKER VOLTAGE = 25

SPEAKERS	DEVICE POWER (WATTS)	SIGNAL CKT SK2.1 QTY.	SIGNAL CKT SK2.1 WATTS	SIGNAL CKT SK2.2 QTY.	SIGNAL CKT SK2.2 WATTS	SPEAKER QTY TOTAL.	MIN. AMPLIFIER SIZE (WATTS)
SPEAKER - 1/4 WATT TAP	0.25	9	2.25	9	2.25	18	8.125
SPEAKER - 1/2 WATT TAP	0.5	1	0.5	3	1.5	4	
SPEAKER - 1 WATT TAP	1	0	0	0	0	0	
SPEAKER - 2 WATT TAP	2	0	0	0	0	0	
TOTAL POWER ON CKT (P) WATTS		2.75		3.75		6.50	
LOAD RESISTANCE (LR) OHMS		350		340			
TOTAL WIRE LENGTH (D) FT		320		300			
WIRE SIZE		14 AWG		14 AWG			
TOTAL WIRE RESISTANCE (WR) OHMS		2.0864		1.956			
POWER LOSS (PL) dB		-0.03		-0.03			

FORMULAS

WIRE RESISTANCE (R) (OHMS/Kft)*		
18 AWG	=	8.08
16 AWG	=	5.08
14 AWG	=	3.26
12 AWG	=	2.05
*VALUES PER CEC		

TOTAL WIRE RESISTANCE (WR) = (R / 1000) * D
LOAD RESISTANCE (LR) = (SPEAKER VOLTAGE)^2 / P
POWER LINE LOSS (PL) = 10 * LOG (1- (WR / (WR+LR)))

SK2.1 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
9	SPK-1/4W	VOICE EVACUATION SPEAKERS (0.25W) GAMEWELL - FCI E90	0.25	0.0100	0.0900
1	SPK-1/2W	VOICE EVACUATION SPEAKERS (0.5W) GAMEWELL - FCI E90	0.50	0.0200	0.0200
0	SPK-1W	VOICE EVACUATION SPEAKERS (1W) GAMEWELL - FCI E90	1.00	0.0400	0.0000
		TOTAL SPEAKER WATTAGE	2.75		
		TOTAL CURRENT ADDED TO CIRCUIT			0.110

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**170**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.062**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT LAST DEVICE (IN VDC) =			**24.9 VDC**
PERCENT VOLTAGE DROP (%) =			**0.25 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT
WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

SK2.2 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
9	SPK-1/4W	VOICE EVACUATION SPEAKERS (0.25W) GAMEWELL - FCI E90	0.25	0.0100	0.0900
3	SPK-1/2W	VOICE EVACUATION SPEAKERS (0.5W) GAMEWELL - FCI E90	0.50	0.0200	0.0600
0	SPK-1W	VOICE EVACUATION SPEAKERS (1W) GAMEWELL - FCI E90	1.00	0.0400	0.0000
		TOTAL SPEAKER WATTAGE	3.75		
		TOTAL CURRENT ADDED TO CIRCUIT			0.150

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**265**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.131**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT LAST DEVICE (IN VDC) =			**24.9 VDC**
PERCENT VOLTAGE DROP (%) =			**0.53 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT
WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

dB LINE LOSS CALCULATION

SPEAKER VOLTAGE = 25

SPEAKERS	DEVICE POWER (WATTS)	SIGNAL CKT SK2.3 QTY.	SIGNAL CKT SK2.3 WATTS	SIGNAL CKT SK2.4 - SPARE QTY.	SIGNAL CKT SK2.4 - SPARE WATTS	SPEAKER QTY TOTAL.	MIN. AMPLIFIER SIZE (WATTS)
SPEAKER - 1/4 WATT TAP	0.25	0	0	0	0	0	15
SPEAKER - 1/2 WATT TAP	0.5	0	0	0	0	0	
SPEAKER - 1 WATT TAP	1	0	0	0	0	0	
SPEAKER - 2 WATT TAP	2	6	12	0	0	6	
TOTAL POWER ON CKT (P) WATTS		12		0		12	
LOAD RESISTANCE (LR) OHMS		53		-			
TOTAL WIRE LENGTH (D) FT		420		0			
WIRE SIZE		14 AWG		14 AWG			
TOTAL WIRE RESISTANCE (WR) OHMS		2.7384		-			
POWER LOSS (PL) dB		-0.22		-			

FORMULAS

WIRE RESISTANCE (R) (OHMS/Kft)*		
18 AWG	=	8.08
16 AWG	=	5.08
14 AWG	=	3.26
12 AWG	=	2.05
*VALUES PER CEC		

TOTAL WIRE RESISTANCE (WR) = (R / 1000) * D
LOAD RESISTANCE (LR) = (SPEAKER VOLTAGE)^2 / P
POWER LINE LOSS (PL) = 10 * LOG (1- (WR / (WR+LR)))

SK2.3 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
6	SPK-2W	VOICE EVACUATION SPEAKERS (2W) GAMEWELL - FCI E90	2.00	0.0800	0.4800
		TOTAL SPEAKER WATTAGE	12.00		
		TOTAL CURRENT ADDED TO CIRCUIT			0.480

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**420**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.667**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT LAST DEVICE (IN VDC) =			**24.3 VDC**
PERCENT VOLTAGE DROP (%) =			**2.67 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT
WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER CLIVE M. BASTIAN No. E19509 Exp. 6-30-25 CIVIL STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM CALCULATIONS

PROJECT NO.
23-12259.00

DRAWING
E713

PLOT DATE: 2/28/2025 12:39:24 PM

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FIRE ALARM BOOSTER PANEL 'FABP-P29' PORTABLES BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	G-PS	Power Supply P/N HPFF8	0.0350	0.141	0.1410
1	CC	Control Module P/N AOM-2SF	0.00040	0.0065	0.0065
		NAC DEVICES:			
6	SV-75 (WALL)	EATON Speaker/Strobe 75cd #ELSPSTR (wall)	0.0000	0.0600	0.3600
		TOTALS	0.0354		0.5075

TOTAL ALARM AMP-HOURS (15 MIN.) =	**0.25**	**HR**	**x**	**0.5075**	**A**	**=**	**0.1269 A-H**
TOTAL STANDBY AMP-HOURS (24 HRS) =	**24**	**HR**	**x**	**0.0354**	**A**	**=**	**0.8496 A-H**
TOTAL REQUIRED AMP-HOURS =						**=**	**0.9765 A-H**
TOTAL DESIGN AMP-HOURS WITH 25% SAFETY FACTOR =						**=**	**1.2206 A-H**
BATTERY CAPACITY REQUIREMENTS						**=**	**7.000 A-H**

NAC P29.1 (CL. 29, 30) VOLTAGE DROP CALCULATION - STROBE CIRCUIT

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
		NAC DEVICES:		
2	SV-75 (WALL)	EATON Speaker/Strobe 75cd #ELSPSTR (wall)	0.0600	0.1200
		TOTAL CURRENT ADDED TO CIRCUIT		**0.120**

LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =			**230**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.091**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**23.9 VDC**
PERCENT VOLTAGE DROP (%) =			**0.38 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

NAC P29.2 (CL. 35, 36, 37, 38) VOLTAGE DROP CALCULATION - STROBE CIRCUIT

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
		NAC DEVICES:		
4	SV-75 (WALL)	EATON Speaker/Strobe 75cd #ELSPSTR (wall)	0.0600	0.2400
		TOTAL CURRENT ADDED TO CIRCUIT		**0.240**

LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =			**700**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.556**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**23.4 VDC**
PERCENT VOLTAGE DROP (%) =			**2.32 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

FIRE ALARM TRANSPONDER PANEL 'FATP-P29' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT/ DEVICE	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	ILI-MB-E3	Intelligent Loop Interface - Main Board	0.0810	0.0810	0.1500	0.1500
1	PM-9	Power Supply P/N PM-9	0.0500	0.0500	0.0910	0.0910
1	INI-VGC	Intel. Network Command Center (INI-VGC)	0.1500	0.1500	0.1500	0.1500
1	AM-50	Amplifier Sub-assembly, 50 watt 25V (AM-50)	0.0860	0.0860	2.2060	2.2060
1	RPT-E3-UTP	ARCNET Repeater (RPT-E3)	0.0160	0.0160	0.0170	0.0170
		SLC DEVICES (in Bldg-400):				
12	SD	Smoke DETECTOR GAMEWELL-FCI #ASD-PL3	0.0003	0.0036	0.0065	0.1560
12	HD(A)	HEAT DETECTOR IN ATTIC GAMEWELL-FCI #ATD-HL2F	0.0002	0.0026	0.0065	0.1885
		VOICE EVACUATION SYSTEM SPEAKERS:	**SPEAKER POWER (W)**			
6	ELSPST-1/2W	Speaker , 24 vdc, (1/4 Watt)	0.5			0.1250
1	ET-1010-R (2-Watt)	Speaker , 24 vdc, (2 Watt)	2			0.0833
		TOTALS	**0.3892**			**3.1668**

TOTAL ALARM AMP-HOURS (15 MIN.) =	**0.25 HR**	**x**	**3.1668 A**	**=**		**0.7917 A-H**
TOTAL STANDBY AMP-HOURS (24 HRS) =	**24 HR**	**x**	**0.3892 A**	**=**		**9.3403 A-H**
TOTAL REQUIRED AMP-HOURS =				**=**		**10.1320 A-H**
TOTAL DESIGN AMP-HOURS WITH 25% SAFETY FACTOR =				**=**		**12.6650 A-H**
BATTERY CAPACITY REQUIREMENT				**=**		**18.0000 A-H**
TOTAL SPEAKER WATTAGE - AMP #1				**=**		**3.00 W**
REQUIRED AMPLIFIER WATTAGE (+25% INSERTION LOSS FACTOR)				**=**		**3.75 W**
SPECIFIED AMPLIFIER WATTAGE				**=**		**25.00 W**

dB LINE LOSS CALCULATION

SPEAKER VOLTAGE = 25

SPEAKERS	DEVICE POWER (WATTS)	SIGNAL CKT SP29.1 QTY.	SIGNAL CKT SP29.1 WATTS	SIGNAL CKT SP29.2 QTY.	SIGNAL CKT SP29.2 WATTS	SPEAKER QTY TOTAL.	MIN. AMPLIFIER SIZE (WATTS)
SPEAKER - 1/4 WATT TAP	0.25	0	0	0	0	0	
SPEAKER - 1/2 WATT TAP	0.5	2	1	4	2	6	
SPEAKER - 1 WATT TAP	1	0	0	0	0	0	**3.75**
SPEAKER - 2 WATT TAP	2	0	0	0	0	0	
TOTAL POWER ON CKT (P) WATTS		1		2		3.00	
LOAD RESISTANCE (LR) OHMS		350		240			
TOTAL WIRE LENGTH (D) FT		230		700			
WIRE SIZE		14 AWG		14 AWG			
TOTAL WIRE RESISTANCE (WR) OHMS		1.4996		4.564			
POWER LOSS (PL) dB		-0.02		-0.09			

FORMULAS

WIRE RESISTANCE (R) (OHMS/Kft)*		
18 AWG	=	8.08
16 AWG	=	5.08
14 AWG	=	3.26
12 AWG	=	2.05
*VALUES PER CEC		

TOTAL WIRE RESISTANCE (WR) = (R / 1000) * D
LOAD RESISTANCE (LR) = (SPEAKER VOLTAGE)^2 / P
POWER LINE LOSS (PL) = 10 * LOG (1- (WR / (WR+LR)))

SP29.1 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
2	SPK-1/5W	VOICE EVACUATION SPEAKERS (0.5W) GAMEWELL - FCI E90	0.5	0.0200	0.0400
0	SPK-1W	VOICE EVACUATION SPEAKERS (1W) GAMEWELL - FCI E90	1.00	0.0400	0.0000
		TOTAL SPEAKER WATTAGE	1.00		
		TOTAL CURRENT ADDED TO CIRCUIT			0.040

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**230**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.030**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**25 VDC**
PERCENT VOLTAGE DROP (%) =			**0.12 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

SP29.2 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
4	**SPK-1/5W**	**VOICE EVACUATION SPEAKERS (0.5W) GAMEWELL - FCI E90**	**0.5**	**0.0200**	**0.0800**
0	**SPK-1W**	**VOICE EVACUATION SPEAKERS (1W) GAMEWELL - FCI E90**	**1.00**	**0.0400**	**0.0000**
		TOTAL SPEAKER WATTAGE	**2.00**		
		TOTAL CURRENT ADDED TO CIRCUIT			**0.080**

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**600**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.159**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**24.8 VDC**
PERCENT VOLTAGE DROP (%) =			**0.64 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

dB LINE LOSS CALCULATION

SPEAKER VOLTAGE = 25

SPEAKERS	DEVICE POWER (WATTS)	SIGNAL CKT SP29.3 QTY.	SIGNAL CKT SP29.3 WATTS	SIGNAL CKT SK29.4 - SPARE QTY.	SIGNAL CKT SK29.4 - SPARE WATTS	SPEAKER QTY TOTAL.	MIN. AMPLIFIER SIZE (WATTS)
SPEAKER - 1/4 WATT TAP	0.25	0	0	0	0	0	
SPEAKER - 1/2 WATT TAP	0.5	0	0	0	0	0	
SPEAKER - 1 WATT TAP	1	0	0	0	0	0	**2.5**
SPEAKER - 2 WATT TAP	2	1	2	0	0	1	
TOTAL POWER ON CKT (P) WATTS		2		0		2	
LOAD RESISTANCE (LR) OHMS		313		-			
TOTAL WIRE LENGTH (D) FT		740		0			
WIRE SIZE		14 AWG		14 AWG			
TOTAL WIRE RESISTANCE (WR) OHMS		4.8248		-			
POWER LOSS (PL) dB		-0.07		-			

FORMULAS

WIRE RESISTANCE (R) (OHMS/Kft)*		
18 AWG	=	8.08
16 AWG	=	5.08
14 AWG	=	3.26
12 AWG	=	2.05
*VALUES PER CEC		

TOTAL WIRE RESISTANCE (WR) = (R / 1000) * D
LOAD RESISTANCE (LR) = (SPEAKER VOLTAGE)^2 / P
POWER LINE LOSS (PL) = 10 * LOG (1- (WR / (WR+LR)))

SP29.3 VOLTAGE DROP CALCULATION - SPEAKER CIRCUIT

QTY.	DEVICE	DESCRIPTION	SPEAKER WATTAGE	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
1	SPK-2W	VOICE EVACUATION SPEAKERS (2W) GAMEWELL - FCI E90	2.00	0.0800	0.0800
		TOTAL SPEAKER WATTAGE	2.00		
		TOTAL CURRENT ADDED TO CIRCUIT			0.080

LENGTH OF WIRE FROM VCP TO LAST DEVICE (IN FEET) =			**740**
ACTUAL SIZE OF WIRE INSTALLED =	**12 AWG**	**6530 CIRCULAR MILS**	
CALCULATED VOLTAGE DROP (IN VDC) =			**0.196**
SPEAKER CIRCUIT VOLTAGE			**25 VDC**
CIRCUIT VOLTAGE CALCULATED AT			
LAST DEVICE (IN VDC) =			**24.8 VDC**
PERCENT VOLTAGE DROP (%) =			**0.78 %**

VOLTAGE DROP FORMULA:
VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT / WIRE SIZE IN C.M.
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH (CLASS A CIRCUIT).

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	03/03/25	DSA BACKCHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER ★ TIMOTHY M. BASTIAN ★ No. E19509 Exp. 6-30-25 ★ CIVIL ★ STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
FIRE ALARM CALCULATIONS

PROJECT NO.
23-12259.00

DRAWING
E714

PLOT DATE: 2/28/2025 12:39:28 PM

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CODES, RULES & REGULATIONS

ALL WORK SHOWN HEREIN SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE CALIFORNIA STATE FIRE MARSHAL, CALIFORNIA BUILDING CODE, TITLES 8 AND 19 THROUGH 24, SERVING UTILITY RULES AND ALL OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE INTERPRETED AS TO PERMIT ANY WORK NOT IN CONFORMANCE WITH THESE CODES, RULES AND REGULATIONS. WHERE WORK OF A GREATER DEGREE IS INDICATED IN THESE PLANS OR SPECIFICATIONS, THAT REQUIREMENT SHALL GOVERN SUCH WORK.

GENERAL NOTES (TYPICAL)

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED ELECTRICAL EQUIPMENT.
2. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF ALL MECHANICAL, HVAC AND PLUMBING EQUIPMENT.
3. VERIFY THE EXACT LOCATION OF ALL FLOOR BOXES AND ASSOCIATED TRENCH, BACKFILL AND SAWCUTTING REQUIREMENTS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY ROUGH -IN WORK FOR THIS EQUIPMENT.
4. COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF UNDERGROUND CONDUITS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO COMMENCEMENT OF ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
5. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES WHOSE WORK WILL IMPACT PLACEMENT OR CONNECTION OF ELECTRICALLY POWERED EQUIPMENT REGARDLESS OF RESPONSIBILITY FOR SUPPLYING EQUIPMENT.

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 110/220V 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 THE 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 SUPPORTS 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 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 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 THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

TRANSFORMER SCHEDULE

TRANSFORMER DESIGNATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	KVA RATING	SUPPLY-SIDE & SYSTEM BONDING JUMPER SIZES	ENCLOSURE	DIMENSIONS (H x W x D)	WEIGHT	REMARKS
T-7	480 DELTA	208Y/120	75	#2 CU	NEMA 1	33.5" x 30" x 27.43"	950# MAX.	(1) (2)
T-8	480 DELTA	208Y/120	75	#2 CU	NEMA 1	33.5" x 30" x 27.43"	950# MAX.	(1) (2)

TRANSFORMER SCHEDULE NOTES:

(1) TRANSFORMER SHALL BE COMPLIANT WITH DOE 2022 ENERGY EFFICIENCY STANDARD.

(2) REFER TO DETAIL B/E1.1-PS FOR TRANSFORMER ANCHORAGE.

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
5877 Pine Ave, Ste. 210, Chino Hills, CA, 91709, Phn: (909) 606-7622

The Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0196
THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: **CHATSWORTH PRODUCTS, INC.** Sheet: 1 of 5
EQUIPMENT NAME: **CUBE iT** Date: 8/3/23

GENERAL NOTES

1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC.
2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
3. THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE Sds IS NOT GREATER THAN 1.60 & 2.30.
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
   WHERE Sds = 1.60 a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1 WOOD / STEEL / CONCRETE WALLS.
   WHERE Sds = 2.30 a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h < 1 WOOD / STEEL / CONCRETE WALLS. SEE FOLLOWING SHEETS FOR Ω_0
5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
7. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
8. CONCRETE WALL DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e. z/h ≤ 1)
9. **RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING**
   A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
   B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
   C. VERIFY THAT PROJECT SPECIFIC VALUES OF Sds & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
   D. VERIFY THAT THE CONCRETE WALL TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR AND THIS OPM.
   E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY CONCRETE WALL EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
   F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 8hef FROM THIS UNITS ANCHORS.
   G. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.

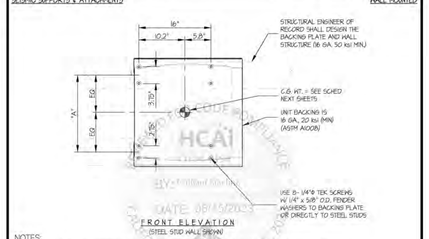
Matthew Jonathan Robertson, No. 4197, EXP. 6-30-2024, STATE OF CALIFORNIA

8/15/2023 OPM-0196: Reviewed for Code Compliance by William E Staehlin 3 of 7

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

CHATSWORTH PRODUCTS, INC. | DES. J. ROBERSON | SHEET 3
CUBE iT | JOB NO. 11-2314 | DATE 8/3/23 | OF 5 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS — WALL MOUNTED



NOTES:
1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 STRENGTH DESIGN IS USED. (EXAMPLE: a_p = 1.0, I_p = 1.5, R_p = 2.5, Ω_0 = 2.0, z/h ≤ 1)

Sds =	1.60	2.30
HORIZONTAL FORCE (E_h) =	1.15 Wp	1.66 Wp
VERTICAL FORCE (E_v) =	0.32 Wp	0.46 Wp

2. THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
3. THIS CALCULATION WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.
4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
5. SEE GENERAL NOTES SHEETS 1 AND 2.

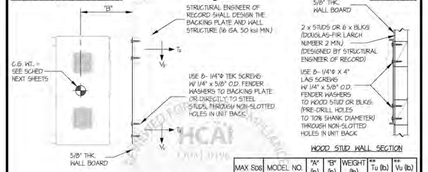
Matthew Jonathan Robertson, No. 4197, EXP. 6-30-2024, STATE OF CALIFORNIA

8/15/2023 OPM-0196: Reviewed for Code Compliance by William E Staehlin 5 of 7

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

CHATSWORTH PRODUCTS, INC. | DES. J. ROBERSON | SHEET 4
CUBE iT | JOB NO. 11-2314 | DATE 8/3/23 | OF 5 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS — Sds ≤ 1.60 — WALL MOUNTED



MAX Sds	MODEL NO.	"A" (in)	"B" (in)	WEIGHT (lb)	** Tu (lb)	** Vu (lb)
1.60	T2830-X24	17.88	9.13	369	177	104
1.60	T2840-X24	17.88	9.13	389	187	110
1.60	T2996-X24	17.88	9.13	410	197	115
1.60	T2830-X36	30.13	11.88	380	175	107
1.60	T2840-X36	30.13	11.88	403	185	114
1.60	T2996-X36	30.13	11.88	426	196	120
1.60	T2830-X48	42.38	14.63	391	180	110
1.60	T2840-X48	42.38	14.63	417	202	117
1.60	T2996-X48	42.38	14.63	442	214	125

** VALUES DO NOT INCLUDE Ω_0

Matthew Jonathan Robertson, No. 4197, EXP. 6-30-2024, STATE OF CALIFORNIA

8/15/2023 OPM-0196: Reviewed for Code Compliance by William E Staehlin 6 of 7

OPM-0196 NOTES:

1. SHEETS 2 AND 5 OF OPM ARE NOT APPLICABLE TO THE PROJECT CONDITIONS (THESE SHEETS INDICATE CONCRETE ANCHORAGE)
2. PROVIDE BLOCKING PER DETAIL A/E1.1-PS.

ELECTRICAL SYMBOL LEGEND

DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED
NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
O.C.	DENOTES SPACING DIMENSION ON CENTER LINE OF DEVICE	$\$_a$	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N. — LOWER CASE SUBSCRIPT INDICATES CONTROLLED SWITCHLEG OF CIRCUIT
U.G.	DENOTES UNDERGROUND INSTALLATION	$	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +48" TO TOP OF BOX, U.O.N.
W.P.	DENOTES WEATHERPROOF CONSTRUCTION	M	OCCUPANCY SENSOR - CEILING MOUNTED
A.F.F.	DENOTES ABOVE FINISHED FLOOR	P	LIGHTING CONTROL SYSTEM DIMMING/POWER PACK MOUNTED IN ATTIC
A.F.G.	DENOTES ABOVE FINISHED GRADE	RP	LIGHTING CONTROL SYSTEM PLUG LOAD RELAY PACK MOUNTED IN ATTIC
F.B.O.	DENOTES FURNISHED BY OTHERS	C-2	LIGHTING CONTROL SYSTEM 2-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.
U.O.N.	DENOTES UNLESS OTHERWISE NOTED	C-4	LIGHTING CONTROL SYSTEM 4-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.
(E)	DENOTES EXISTING TO REMAIN, NO WORK U.O.N.	C-1 L	LIGHTING CONTROL SYSTEM DIMMING WALL SWITCH WITH LOCKING COVER @ +48" TO TOP OF BOX, U.O.N.
(N)	DENOTES NEW	DS	LIGHTING CONTROL SYSTEM DAYLIGHT SENSOR - CEILING MOUNTED
(1)	ELECTRICAL KEYNOTES: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET	NB	LIGHTING CONTROL SYSTEM NETWORK BRIDGE
A-3	CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, - 3/4"C. MINIMUM, U.O.N.	NG	LIGHTING CONTROL SYSTEM NETWORK GATEWAY
(1)	CIRCUIT FEEDER: DENOTES FEEDER 'F1' PER SYSTEM FEEDER SCHEDULE	TC	LIGHTING CONTROL SYSTEM TIME CLOCK
	CONDUIT IN ATTIC/WALL: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.		ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL
	CONDUIT IN FLOOR/U.G.: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.		ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL
	DENOTES EXISTING CONDUIT RUN TO REMAIN		TERMINAL CABINET PER PLANS, FLUSH MOUNTED IN WALL
	CONDUIT RUN - STUBBED, CAPPED AND LABELED.		TERMINAL CABINET PER PLANS, SURFACE MOUNTED ON WALL
	CONDUIT RUN: DENOTES 3/4"C - 3 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.		FIRE ALARM PANEL PER PLANS, FLUSH MOUNTED IN WALL
	CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.		FIRE ALARM PANEL PER PLANS, SURFACE MOUNTED ON WALL
	CONDUIT RUN: DENOTES 3/4"C - 5 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	S	EXTERIOR SPEAKER, ELEVATION +9'-0" AFG
	CONDUIT RUN: DENOTES 1"C - 6 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	S	SPEAKER IN CEILING, U.O.N.
	SEPARATE POWER AND DATA FLOOR BOXES	S	SPEAKER/CLOCK IN COMMON BACKBOX PER PLAN @ 12" BELOW CEILING, U.O.N.
	FLUSH FLOOR BOX WITH DEVICE(S) INSTALLED PER PLANS, U.O.N.		WALL CLOCK PER PLAN @ 12" BELOW CEILING, U.O.N.
	TAMPER-RESISTANT DUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	S	SPEAKER ON WALL @ 12" BELOW CEILING, U.O.N.
	TAMPER-RESISTANT DUPLEX GFI RECEPTACLE, IN WALL @ 18", U.O.N.	MD	INTRUSION ALARM SYSTEM MOTION DETECTOR ROUGH-IN
		DC	INTRUSION ALARM SYSTEM MAGNETIC DOOR CONTACT ROUGH-IN
	TAMPER-RESISTANT QUADRUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	GB	INTRUSION ALARM SYSTEM GLASS BREAK DETECTOR ROUGH-IN
	SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ 18" U.O.N.	CR	INTRUSION ALARM SYSTEM CARD READER ROUGH-IN
	DUPLEX RECEPTACLE FLUSH IN CEILING	C	SECURITY CAMERA ROUGH-IN LOCATION PER PLAN
	JUNCTION BOX	SD	FIRE ALARM SMOKE DETECTOR ON CEILING, U.O.N.
	JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT	HD	FIRE ALARM HEAT DETECTOR ON CEILING, U.O.N.
	SURFACE MOUNTED RACEWAY, MOUNT @ +18" A.F.F. U.ON.	DD	FIRE ALARM DUCT DETECTOR IN HVAC DUCT
	RECESSED LED LIGHTING FIXTURE	CR	FIRE ALARM ADDRESSABLE CONTROL RELAY MODULE
	RECESSED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	AM	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE
	SURFACE MOUNTED LED LIGHTING FIXTURE	F	FIRE ALARM MANUAL PULL STATION @ +48" TO TOP OF BOX, U.O.N.
	SURFACE MOUNTED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	V	FIRE ALARM VISUAL ALARM UNIT @ +80" MINIMUM, U.O.N.
	SURFACE MOUNTED LED STRIP LIGHT	H	INTERIOR FIRE ALARM HORN @ +10'-0", U.O.N.
	SURFACE MOUNTED LED STRIP LIGHT WITH EMERGENCY BATTERY BACKUP	AV	FIRE ALARM HORN/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.
	POST TOP MOUNTED LIGHTING FIXTURE	SV	VOICE EVACUATION SPEAKER/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.
	WALL MOUNTED LIGHTING FIXTURE	S	EXTERIOR VOICE EVACUATION SPEAKER
	WALL MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP		FIRE ALARM CIRCUIT END OF LINE RESISTOR
	RECESSED LIGHTING FIXTURE	x	DATA OUTLET IN WALL @ +18", U.O.N., WITH 'D' CABLES TO IDF OR MDF (SUBSCRIPT INDICATES QUANTITY OF CABLES AND STATION SIDE JACKS)
	RECESSED FIXTURE WITH EMERGENCY BATTERY BACKUP	WAP	WIRELESS ACCESS POINT LOCATION, PROVIDE TWO TYPE 'D' CABLES TO IDF OR MDF
	ILLUMINATED EXIT SIGN MOUNTED ON CEILING		NON-FUSIBLE DISCONNECT SWITCH
	ILLUMINATED EXIT SIGN MOUNTED ON WALL		FUSIBLE DISCONNECT SWITCH
	POLE MOUNTED EXTERIOR LIGHTING FIXTURE		FUSIBLE DISCONNECT SWITCH WITH INTEGRAL MAGNETIC STARTER
			ELECTRIC MOTOR
			EXHAUST FAN OR FRACTIONAL HORSEPOWER MOTOR

TELECOMMUNICATION CABLE SCHEDULE

CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
'D'	4 UTP #23 AWG CATEGORY 6 CMP PLENUM RATED	COMMSCOPE #2071E	BLUE	DATA	HORIZONTAL DATA CABLE - INTERIOR
'DA'	4 UTP #23 AWG CATEGORY 6A CMP PLENUM RATED	COMMSCOPE #2091B	ORANGE	DATA (WAP)	HORIZONTAL DATA WAP CABLE - INTERIOR
'DS'	4 UTP #23 AWG CATEGORY 6 FILLED OUTDOOR	COMMSCOPE #1572A	BLACK	DATA	HORIZONTAL DATA CABLE - OUTDOOR
'FO'	12-STRAND SINGLE-MODE OS2 FIBER OPTIC CABLE	CORNING SMF-28e+ OR EQUIVALENT	BLACK	DATA	SITE OPTICAL FIBER DATA NETWORK
'T12'	12-PAIR UTP #24 AWG CAT 3 CABLE	ESSEX SEALPIC 09-094-02	BLACK	INTRUSION / PA	SITE COPPER SIGNAL CABLE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

PROFESSIONAL ENGINEER — CYNTHIA M. BASTIAN — No. E19509 — Exp. 6-30-25 — CIVIL — STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONSULTANTS
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
ELECTRICAL SCHEDULES, LEGEND & NOTES

PROJECT NO.
23-12259.00

DRAWING
E800

PLOT DATE: 2/28/2025 12:39:30 PM

ALLOWED CLIMATE ZONES

ALLOWED CLIMATE ZONES: ALL CLIMATE ZONES

OPERATIONS & MAINTENANCE:

BUILDING MANUFACTURE 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 MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

NOTE

"THE PRESCRIPTIVE PV/BATTERY REQUIREMENTS WAS TRADED OFF USING THE PERFORMANCE COMPLIANCE APPROACH AS DOCUMENTED ON THE P.R.F CERTIFICATE OF COMPLIANCE FORMS, PLEASE REFER TO SHEETS A0.10-PS THRU A0.17-PS"

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

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 (CEC), 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 MARSHALL 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 STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) ...2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)...2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2018 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION.....2018 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2022 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES...2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2014)
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.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 1, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023.

DESIGN PARAMETERS

ADDRESS: 2736 FRANKLIN ROAD MERCED, CALIFORNIA 95348

STANDARD: ASCE/SEI 7-16

RICK CATEGORY: II

SITE SPECIFIC DESIGN

FLOOR LIVE LOAD: 50+15 PSF

ROOF LIVE LOAD: 20 PSF

WIND DESIGN: 94 M.P.H EXP. "C"

SEISMIC DESIGN CATEGORY: E

SITE CLASS: D

DESIGN LOAD BEARING SOIL: 1500 P.S.F

GROUND SNOW LOAD, P_g: 0 lb/ft^2

FLOOD ZONE CATEGORIZATION: X (shaded)

EARTHQUAKE/SEISMIC DESIGN DATA:

1. Ss=0.575
2. S1=0.238
3. Fa=1.34
4. Fv=N/A
5. SMS=0.77
6. SM1=N/A
7. SDS=0.513
8. SD1=N/A
9. TL=12
10. PGA=0.242
11. PGAM=0.329
12. FPGA=1.358
13. Ie=1
14. Cv=1.083

ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

WHEN THE PRE-CHECK BUILDING IS SITE ADAPTED, THE BUILDING SHALL BE ORIENTED PER SOLAR READY DIAGRAM OR THE SITED PC SHALL HAVE A SOLAR ZONE ON ANOTHER BUILDING OR ON COVER PARKING INSTALLED WITHIN 250 FEET OF THE SITED PC WITH A SOLAR ZONE TOTAL AREA NO LESS THAN 15 PERCENT OF THE PC'S TOTAL ROOF AREA. REFER TO ENERGY CODE SECTION 110.10 (b) 1B

GLOBAL MODULAR Incorporated

AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION
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RIVERSIDE, CA 92507
PHONE: (951) 686-3633
FAX: (951) 686-3666
WEBSITE: WWW.GDVI.NET

BUILDING 700 (2)-72' x 40', (1)-48' x 40'
BUILDING 800 (1)-72' x 40', (1)-84' x 40'
MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD.
MERCED, CA. 95348

BASED ON PC # 02-121341 DSA Submittal_V3

PROJECT SPECIFIC DRAWING INDEX SHEET COUNT: 45

SHEET NO.	ARCHITECTURAL
A0.0-PS	TITLE SHEET
A0.3-PS	DOOR & FINISH SCHEDULE
A0.3a-PS	WINDOW SCHEDULE
A0.10-PS	T-24 PERFORMANCE FORMS
A0.11-PS	T-24 COMPLIANCE FORMS
A0.12-PS	T-24 PERFORMANCE FORMS
A0.13-PS	T-24 COMPLIANCE FORMS
A0.14-PS	T-24 PERFORMANCE FORMS
A0.15-PS	T-24 COMPLIANCE FORMS
A0.16-PS	T-24 PERFORMANCE FORMS
A0.17-PS	T-24 COMPLIANCE FORMS
A1.1-PS	FLOOR PLAN BUILDING 700
A1.2-PS	FLOOR PLAN BUILDING 700
A1.3-PS	FLOOR PLAN BUILDING 800
A1.4-PS	FLOOR PLAN BUILDING 800
A1.5-PS	FLOOR PLAN BUILDING 800
A2.1-PS	REFLECTED CEILING PLAN BUILDING 700
A2.2-PS	REFLECTED CEILING PLAN BUILDING 700
A2.3-PS	REFLECTED CEILING PLAN BUILDING 800
A3.2-PS	ROOF PLAN MONO SLOPE 22 GA METAL BUILDING 700
A3.3-PS	ROOF PLAN MONO SLOPE 22 GA METAL BUILDING 700
A3.4-PS	ROOF PLAN MONO SLOPE 22 GA METAL BUILDING 800
A4.1-PS	INTERIOR ELEVATIONS
A4.2-PS	INTERIOR ELEVATIONS
A4.3-PS	INTERIOR ELEVATIONS
A5.4-PS	EXTERIOR ELEVATIONS BUILDING 700 STUCCO OPTION
A5.5-PS	EXTERIOR ELEVATIONS BUILDING 800 STUCCO OPTION
	FOUNDATION
F3.1-PS	FLUSH TO GRADE CONCRETE FOUNDATION PLAN BUILDING 700
F3.2-PS	FLUSH TO GRADE CONCRETE FOUNDATION PLAN BUILDING 700
F3.3-PS	FLUSH TO GRADE CONCRETE FOUNDATION PLAN BUILDING 800
	MECHANICAL
M1.1-PS	MECHANICAL PLAN BUILDING 700
M1.2-PS	MECHANICAL PLAN BUILDING 700
M1.3-PS	MECHANICAL PLAN BUILDING 800
	ELECTRICAL
E1.0-PS	ELECTRICAL POWER PLAN BUILDING 700
E1.1-PS	ELECTRICAL POWER PLAN BUILDING 700
E1.2-PS	ELECTRICAL POWER PLAN BUILDING 800
E1.3-PS	ELECTRICAL LIGHTING PLAN BUILDING 700
E1.4-PS	ELECTRICAL LIGHTING PLAN BUILDING 700
E1.5-PS	ELECTRICAL LIGHTING PLAN BUILDING 800
	PLUMBING
P1.1-PS	PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES BUILDING 700
P1.2-PS	PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES BUILDING 700
P1.3-PS	PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES BUILDING 800
P1.4-PS	PLUMBING PLAN 1 BUILDING 700
P1.5-PS	PLUMBING PLAN 2 BUILDING 700
P1.6-PS	PLUMBING PLAN BUILDING 800

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

TITLE SHEET

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — No. S 6899 — EXP. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

A0.0-PS

DRAWING SYMBOLS

- 2"x4" WOOD STUD
- 2"x6" WOOD STUD
- 2"x8" WOOD STUD
- 1 HR RATED (DARK LINE THROUGH SYMBOL)
- * STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES. SEE INTERIOR WALL SCHEDULE ON SHEET A0.2
- * INDICATES DOOR TYPE
- * INDICATES WINDOW TYPE
- * KEY NOTE SYMBOL
- 1 / 2 / 3 / 4 / * INDICATES INTERIOR ELEVATION ORIENTATION; INDICATES DETAIL #; INDICATES SHEET #
- * INDICATES DETAIL #; * INDICATES SHEET #
- * INDICATES EXTERIOR ELEVATION #; * INDICATES SHEET #
- 5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MAX. DOOR SWING ENCROACHMENT
- 48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
- * INDICATES ROOM NAME; * INDICATES ROOM NUMBER
- 60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.
- WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET
- 60"x56" AT WATER CLOSET WITH 60"x48" CLEAR IN FRONT OF WATER CLOSET
- * GRID LINE NUMBER OR LETTER

DRAWING INDEX

SHEET NO.	ARCHITECTURAL
A0.0	TITLE SHEET
A0.0a	DESIGN PARAMETERS, BUILDING & STRUCTURAL DATA & FIRE LIFE SAFETY
A0.1	SPECIFICATIONS AND NOTES
A0.1a	SPECIFICATIONS
~~A0.2~~	~~OPTIONS LIST~~
A0.3	FINISH, DOOR & WINDOW SCHEDULES
A0.4	SIGNAGE SPECIFICATIONS AND ACCESSIBILITY
~~A0.5~~	~~MULTIPLE FLOOR PLANS 60'x40' 120'x40'~~
A0.6	CAL GREEN SPECS
A0.7	STC CONSTRUCTION DETAILS (INTERIOR WALLS)
A0.8	DSA DOCUMENTS
~~A0.9FV~~	~~SOLAR PV REQUIREMENTS 48' TO 120' X 40'~~
~~A0.9SR~~	~~SOLAR READY TYPICAL ROOF PLAN 24' & 36' X 40'~~
~~A0.10~~	~~T-24 PERFORMANCE RESULTS 24' x 40'~~
~~A0.11~~	~~T-24 PERFORMANCE RESULTS 36' x 40'~~
~~A0.12~~	~~T-24 PERFORMANCE RESULTS 48' x 40'~~
~~A0.13~~	~~T-24 PERFORMANCE RESULTS 60' x 40'~~
~~A0.14~~	~~T-24 PERFORMANCE RESULTS 72' x 40'~~
~~A0.15~~	~~T-24 PERFORMANCE RESULTS 84' x 40'~~
~~A0.16~~	~~T-24 PERFORMANCE RESULTS 96' x 40'~~
~~A0.17~~	~~T-24 PERFORMANCE RESULTS 108' x 40'~~
~~A0.18~~	~~T-24 PERFORMANCE RESULTS 120' x 40'~~
~~A0.20-a~~	~~ENERGY FORMS ZONE 14 WORST CASE~~
~~A0.20-b~~	~~ENERGY FORMS ZONE 14 WORST CASE~~
~~A0.20-c~~	~~ENERGY FORMS ZONE 14 WORST CASE~~
~~A0.20-d~~	~~ENERGY FORMS ZONE 14 WORST CASE~~
~~A0.20-e~~	~~ENERGY FORMS ZONE 14 WORST CASE~~
~~A0.21-a~~	~~ENERGY FORMS ZONE 15 WORST CASE~~
~~A0.21-b~~	~~ENERGY FORMS ZONE 15 WORST CASE~~
~~A0.21-c~~	~~ENERGY FORMS ZONE 15 WORST CASE~~
~~A0.21-d~~	~~ENERGY FORMS ZONE 15 WORST CASE~~
~~A0.21-e~~	~~ENERGY FORMS ZONE 15 WORST CASE~~
~~A0.22-a~~	~~ENERGY FORMS ZONE 16 WORST CASE~~
~~A0.22-b~~	~~ENERGY FORMS ZONE 16 WORST CASE~~
~~A0.22-c~~	~~ENERGY FORMS ZONE 16 WORST CASE~~
~~A0.22-d~~	~~ENERGY FORMS ZONE 16 WORST CASE~~
~~A0.22-e~~	~~ENERGY FORMS ZONE 16 WORST CASE~~
~~A0.25-a~~	~~T-24 COMPLIANCE FORMS~~
~~A0.25-b~~	~~T-24 COMPLIANCE FORMS~~
~~A0.26-a~~	~~T-24 COMPLIANCE FORMS~~
~~A0.26-b~~	~~T-24 COMPLIANCE FORMS~~
~~A0.27-a~~	~~T-24 COMPLIANCE FORMS~~
~~A0.27-b~~	~~T-24 COMPLIANCE FORMS~~
A0.28-a	T-24 COMPLIANCE FORMS
A0.28-b	T-24 COMPLIANCE FORMS
~~A0.29~~	~~T-24 COMPLIANCE FORMS~~
~~A0.30-a~~	~~ENERGY FORMS 24' x 40' WORST CASE~~
~~A0.30-b~~	~~ENERGY FORMS 24' x 40' WORST CASE~~
~~A0.30-c~~	~~ENERGY FORMS 24' x 40' WORST CASE~~
~~A0.30-d~~	~~ENERGY FORMS 24' x 40' WORST CASE~~
~~A0.30-e~~	~~ENERGY FORMS 24' x 40' WORST CASE~~
~~A0.31-a~~	~~ENERGY FORMS 36' x 40' WORST CASE~~
~~A0.31-b~~	~~ENERGY FORMS 36' x 40' WORST CASE~~
~~A0.31-c~~	~~ENERGY FORMS 36' x 40' WORST CASE~~
~~A0.31-d~~	~~ENERGY FORMS 36' x 40' WORST CASE~~
~~A0.31-e~~	~~ENERGY FORMS 36' x 40' WORST CASE~~

SHEET NO.	ARCHITECTURAL CONTINUED
~~A0.32-a~~	~~ENERGY FORMS 48' x 40' WORST CASE~~
~~A0.32-b~~	~~ENERGY FORMS 48' x 40' WORST CASE~~
~~A0.32-c~~	~~ENERGY FORMS 48' x 40' WORST CASE~~
~~A0.32-d~~	~~ENERGY FORMS 48' x 40' WORST CASE~~
~~A0.32-e~~	~~ENERGY FORMS 48' x 40' WORST CASE~~
~~A0.33-a~~	~~ENERGY FORMS 60' x 40' WORST CASE~~
~~A0.33-b~~	~~ENERGY FORMS 60' x 40' WORST CASE~~
~~A0.33-c~~	~~ENERGY FORMS 60' x 40' WORST CASE~~
~~A0.33-d~~	~~ENERGY FORMS 60' x 40' WORST CASE~~
~~A0.33-e~~	~~ENERGY FORMS 60' x 40' WORST CASE~~
~~A0.34-a~~	~~ENERGY FORMS 72' x 40' WORST CASE~~
~~A0.34-b~~	~~ENERGY FORMS 72' x 40' WORST CASE~~
~~A0.34-c~~	~~ENERGY FORMS 72' x 40' WORST CASE~~
~~A0.34-d~~	~~ENERGY FORMS 72' x 40' WORST CASE~~
~~A0.34-e~~	~~ENERGY FORMS 72' x 40' WORST CASE~~
~~A0.35-a~~	~~ENERGY FORMS 84' x 40' WORST CASE~~
~~A0.35-b~~	~~ENERGY FORMS 84' x 40' WORST CASE~~
~~A0.35-c~~	~~ENERGY FORMS 84' x 40' WORST CASE~~
~~A0.35-d~~	~~ENERGY FORMS 84' x 40' WORST CASE~~
~~A0.35-e~~	~~ENERGY FORMS 84' x 40' WORST CASE~~
~~A0.36-a~~	~~ENERGY FORMS 96' x 40' WORST CASE~~
~~A0.36-b~~	~~ENERGY FORMS 96' x 40' WORST CASE~~
~~A0.36-c~~	~~ENERGY FORMS 96' x 40' WORST CASE~~
~~A0.36-d~~	~~ENERGY FORMS 96' x 40' WORST CASE~~
~~A0.36-e~~	~~ENERGY FORMS 96' x 40' WORST CASE~~
~~A0.37-a~~	~~ENERGY FORMS 108' x 40' WORST CASE~~
~~A0.37-b~~	~~ENERGY FORMS 108' x 40' WORST CASE~~
~~A0.37-c~~	~~ENERGY FORMS 108' x 40' WORST CASE~~
~~A0.37-d~~	~~ENERGY FORMS 108' x 40' WORST CASE~~
~~A0.37-e~~	~~ENERGY FORMS 108' x 40' WORST CASE~~
~~A0.38-a~~	~~ENERGY FORMS 120' x 40' WORST CASE~~
~~A0.38-b~~	~~ENERGY FORMS 120' x 40' WORST CASE~~
~~A0.38-c~~	~~ENERGY FORMS 120' x 40' WORST CASE~~
~~A0.38-d~~	~~ENERGY FORMS 120' x 40' WORST CASE~~
~~A0.38-e~~	~~ENERGY FORMS 120' x 40' WORST CASE~~
A1.1	FLOOR PLAN 24'x40'
~~A1.2~~	~~FLOOR PLAN 36'x40'~~
~~A1.3~~	~~FLOOR PLAN 48'x40'~~
A2.0	REFLECTED CEILING DETAILS
A2.1	REFLECTED CEILING PLAN 24'x40'
~~A2.2~~	~~REFLECTED CEILING PLAN 36'x40'~~
~~A2.3~~	~~REFLECTED CEILING PLAN 48'x40'~~
A3.1	ROOF DETAILS-22 GA METAL
A3.2	ROOF PLAN MONO & DUAL SLOPE-22 GA METAL
~~A3.5~~	~~ROOF DETAILS-TPO~~
~~A3.6~~	~~ROOF PLAN MONO & DUAL SLOPE-TPO~~
~~A3.6P~~	~~ROOF DETAILS-TPO PARAPET~~
~~A3.6PD~~	~~ROOF PLAN TPO WITH PARAPET DRAIN OPTION~~
~~A3.6PS~~	~~ROOF PLAN TPO WITH PARAPET SCUPPER OPTION~~
A4.1	INTERIOR ELEVATIONS 24'x40'
A4.2	INTERIOR ELEVATIONS 36'x40'
A4.3	INTERIOR ELEVATIONS 48'x40'

SHEET NO.	STRUCTURAL
~~A5.1-A~~	~~EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'A' (RIGHT HAND)~~
~~A5.1-AP~~	~~EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'A' (RIGHT HAND) PARAPET~~
~~A5.1-B~~	~~EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'B' (LEFT HAND)~~
~~A5.1-BP~~	~~EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'B' (LEFT HAND) PARAPET~~
~~A5.2~~	~~EXTERIOR ELEVATIONS 36'x40'-WOOD SIDING~~
~~A5.2P~~	~~EXTERIOR ELEVATIONS 36'x40'-WOOD SIDING PARAPET~~
~~A5.3~~	~~EXTERIOR ELEVATIONS 48'x40'-WOOD SIDING~~
~~A5.3P~~	~~EXTERIOR ELEVATIONS 48'x40'-WOOD SIDING PARAPET~~
A5.4-A	EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'A' (RIGHT HAND)
~~A5.4-AP~~	~~EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'A' (RIGHT HAND) PARAPET~~
~~A5.4-B~~	~~EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'B' (LEFT HAND)~~
~~A5.4-BP~~	~~EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'B' (LEFT HAND) PARAPET~~
~~A5.5~~	~~EXTERIOR ELEVATIONS 36'x40'-STUCCO OPTION~~
~~A5.5P~~	~~EXTERIOR ELEVATIONS 36'x40'-STUCCO OPTION PARAPET~~
~~A5.6~~	~~EXTERIOR ELEVATIONS 48'x40'-STUCCO OPTION~~
~~A5.6P~~	~~EXTERIOR ELEVATIONS 48'x40'-STUCCO OPTION PARAPET~~
A8.0	ARCHITECTURAL DETAILS WOOD STUD OPTION
A8.1	ARCHITECTURAL DETAILS
A8.2	SHEET METAL AND FLASHING DETAILS
~~A8.3~~	~~ARCHITECTURAL DETAILS-METAL STUD OPTION~~
~~A8.4~~	~~DETERIORATION PROTECTION PLYWOOD SIDING CONC FLOOR - WD STUDS~~
A8.5	DETERIORATION PROTECTION STUCCO EXTERIOR FINISH CONC FLOOR - WD STUDS
~~A8.6~~	~~DETERIORATION PROTECTION PLYWOOD SIDING WOOD FLOOR - WD STUDS~~
~~A8.7~~	~~DETERIORATION PROTECTION STUCCO EXTERIOR FINISH WOOD FLOOR - WD STUDS~~
~~A8.8~~	~~DETERIORATION PROTECTION PLYWOOD SIDING CONC FLOOR - STL STUDS~~
~~A8.9~~	~~DETERIORATION PROTECTION STUCCO EXTERIOR FINISH CONC FLOOR - STL STUDS~~
~~A8.10~~	~~DETERIORATION PROTECTION PLYWOOD SIDING WOOD FLOOR - STL STUDS~~
~~A8.11~~	~~DETERIORATION PROTECTION STUCCO EXTERIOR FINISH WOOD FLOOR - STL STUDS~~
~~A9.0~~	~~FIRE RATED ASSEMBLIES~~
~~A9.1~~	~~FIRE RATED DETAILS~~
A10.0	RESTROOM DETAILS
A10.1a	RESTROOM ACCESSIBILITY DETAILS ADULT
~~A10.1b~~	~~RESTROOM ACCESSIBILITY DETAILS AGES 9 THRU 12~~
A10.1c	RESTROOM ACCESSIBILITY DETAILS AGES 5 THRU 8
~~A10.1d~~	~~RESTROOM ACCESSIBILITY DETAILS AGES 3 AND 4~~
~~A11.0~~	~~SOLATUDE OPTION~~
A12.0a	24'x40' RESTROOM OPTION & ACCESSORY PLAN ADULT
~~A12.0b~~	~~24'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 9 THRU 12~~
A12.0c	24'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 5 THRU 8
~~A12.0d~~	~~24'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 3 AND 4~~
~~A12.1a~~	~~36'x40' RESTROOM OPTION & ACCESSORY PLAN ADULT~~
~~A12.1b~~	~~36'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 9 THRU 12~~
~~A12.1c~~	~~36'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 5 THRU 8~~
~~A12.1d~~	~~36'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 3 AND 4~~
~~A12.2a~~	~~48'x40' RESTROOM OPTION & ACCESSORY PLAN ADULT~~
~~A12.2b~~	~~48'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 9 THRU 12~~
~~A12.2c~~	~~48'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 5 THRU 8~~
~~A12.2d~~	~~48'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 3 AND 4~~
	FOUNDATION
F0.0	GENERAL DETAILS
~~F1.0~~	~~WOOD PAD FOUNDATION DETAILS~~
~~F1.1~~	~~WOOD PAD FOUNDATION PLAN PLYWOOD FLOOR~~
~~F1.2~~	~~WOOD PAD FOUNDATION PLAN CONCRETE FLOOR~~
~~F2.0~~	~~ABOVE GRADE CONCRETE FOUNDATION DETAILS~~
~~F2.1~~	~~ABOVE GRADE CONCRETE FOUNDATION PLAN~~
F3.0	FLUSH TO GRADE CONCRETE FOUNDATION DETAILS
F3.1	FLUSH TO GRADE CONCRETE FOUNDATION PLAN

SHEET NO.	STRUCTURAL
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
S0.0b	STRUCTURAL NOTES AND SPECIFICATIONS
~~S0.1~~	~~BUILDING SECTIONS PLYWOOD FLOOR~~
S0.1P	BUILDING SECTIONS, PARAPET FRAMING AND DETAILS
S0.2	BUILDING SECTIONS CONCRETE FLOOR
S0.3	TYPICAL STRUCTURAL DETAILS
S1.0	FLOOR FRAMING DETAILS-PLYWOOD & CONCRETE
~~S1.1~~	~~FLOOR FRAMING PLAN PLYWOOD~~
S1.2	FLOOR FRAMING PLAN-CONCRETE
S2.0	ROOF FRAMING DETAILS
S2.1	ROOF TRUSS AND DETAILS
S2.2	ROOF FRAMING PLAN-PLYWOOD SHEATHING
~~S2.2a~~	~~MECHANICAL SCREEN PLAN~~
~~S2.2PD~~	~~PARAPET ROOF PLAN DUAL SLOPE~~
~~S2.2PM~~	~~PARAPET ROOF PLAN MONO SLOPE~~
S3.0	WALL FRAMING DETAILS-WOOD STUD
~~S3.1~~	~~WALL FRAMING DETAILS STEEL STUD~~
S3.2	WALL FRAMING ELEVATIONS
S4.0	ALLOWABLE HEADER PENETRATION
	MECHANICAL
M0.0	MECHANICAL DETAILS
~~M0.1~~	~~MECHANICAL SCHEDULES~~
~~M1.1~~	~~MECHANICAL PLAN WALL MOUNT 24'x40'~~
~~M1.2~~	~~MECHANICAL PLAN WALL MOUNT 36'x40'~~
~~M1.3~~	~~MECHANICAL PLAN WALL MOUNT 48'x40'~~
M2.1	MECHANICAL PLAN ROOF MOUNT 24'x40'
~~M2.2~~	~~HVAC ROOF MOUNT 24'x40'~~
~~M2.3~~	~~MECHANICAL PLAN ROOF MOUNT 36'x40'~~
~~M2.4~~	~~HVAC ROOF MOUNT 36'x40'~~
~~M2.5~~	~~MECHANICAL PLAN ROOF MOUNT 48'x40'~~
~~M2.6~

HW SET: 01

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM LOCK	LV9071T 06A X L283-711	626	SCH
2	EA	CORE ONLY	23-030	626	SCH
1	EA	SURFACE CLOSER	4111 EDA X ST-1631	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	SECURITY FLOOR STOP	FS18S	BLK	IVE
2	EA	JAMB SEALS	328A	AL	ZER
1	EA	HEAD SEAL	429A	AL	ZER
1	EA	DOOR SWEEP	39A	AL	ZER
1	EA	THRESHOLD	102A MS/LA	AL	ZER

INSTALL HEAD SEAL BEFORE CLOSER

HW SET: 02

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	LV9480T 06A	626	SCH
1	EA	CORE ONLY	23-030	626	SCH
1	EA	SURFACE CLOSER	4111 H EDA X ST-1631	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	SECURITY FLOOR STOP	FS18S	BLK	IVE
2	EA	JAMB SEALS	328A	AL	ZER
1	EA	HEAD SEAL	429A	AL	ZER
1	EA	DOOR SWEEP	39A	AL	ZER
1	EA	THRESHOLD	102A MS/LA	AL	ZER

INSTALL HEAD SEAL BEFORE CLOSER

HW SET: 03

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	MORTISE DEADBOLT	L463T XB11-720	626	SCH
1	EA	PRIMUS CORE ONLY	20-740	626	SCH
1	EA	PUSH PULL	8200 8" X 16" CFC	630	IVE
1	EA	SURFACE CLOSER	4111 H EDA X ST-1631	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	SECURITY FLOOR STOP	FS18S	BLK	IVE
2	EA	JAMB SEALS	328A HEAD AND JAMBS	AL	ZER
1	EA	HEAD SEAL	429A	AL	ZER
1	EA	DOOR SWEEP	39A	AL	ZER
1	EA	THRESHOLD	102A MS/LA	AL	ZER

INSTALL HEAD SEAL BEFORE CLOSER

HW SET: 04

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	L9050T 06A L583-363	626	SCH
1	EA	CORE ONLY	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 05

4	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	DOOR BOLT	054-S48	626	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW	630	IVE
1	EA	WALL STOP	WS401CCV	626	IVE
1	EA	SILENCER	SR64	GRY	IVE

HW SET: 06

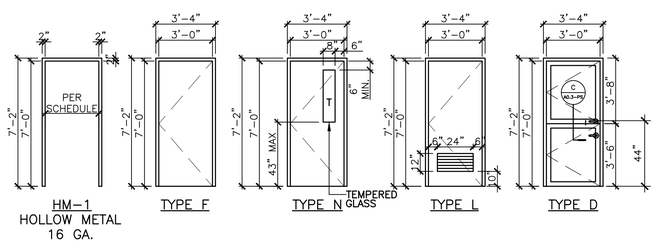
3	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA	STOREROOM LOCK	LV9480T 06A	626	SCH
1	EA	CORE ONLY	23-030	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA	WALL STOP	WS401CCV	626	IVE
1	EA	SILENCER	SR64	GRY	IVE

DOOR SCHEDULE - BUILDING 700

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE GROUP	GLAZING TYPE	REMARKS
701A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
701B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
704A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
704B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
705A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
706A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
707A	3' – 0"	7' – 0"	F	HM	–	HM–1	P	02	–	
707B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
708A	3' – 0"	7' – 0"	F	SCW	P	HM–1	P	02	–	
708B	3' – 0"	7' – 0"	F	HM	P	HM–1	P	06	–	
709A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
709B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
710A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
710B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
713A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
713B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
714A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
715A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
716A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	02	–	
716B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
717A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
718A	3' – 0"	7' – 0"	F	HM	–	HM–1	P	02	–	
718B	3' – 0"	7' – 0"	F	SCW	P	HM–1	P	06	–	
719A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
719B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
720A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
720B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
722A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
723A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
724A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	02	–	
724B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
725A	4' – 0"	7' – 0"	L	HM	P	HM–1	P	02	–	
726A	4' – 0"	7' – 0"	L	HM	P	HM–1	P	02	–	
727A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	03	–	
728A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	03	–	

DOOR SCHEDULE - BUILDING 800

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE GROUP	GLAZING TYPE	REMARKS
801A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
801B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
802A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	02	–	
802B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
803A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	02	–	
803B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
804A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
805A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
806A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
806B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
809A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
809B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
810A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
810B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
811A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	06	–	
811B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	02	–	
812A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	02	–	
812B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
813A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	06	–	
814A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
815A	3' – 0"	7' – 0"	D	SCW	–	HM–1	P	05	–	MAGNETIC DOOR HOLDER
816A	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
816B	3' – 0"	7' – 0"	F	SCW	–	HM–1	P	04	–	
819A	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
819B	3' – 0"	7' – 0"	N	HM	P	HM–1	P	01	ITT	
820A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	03	–	
821A	3' – 0"	7' – 0"	F	HM	P	HM–1	P	03	–	
822A	4' – 0"	7' – 0"	F	HM	P	HM–1	P	02	–	
824A	4' – 0"	7' – 0"	L	HM	P	HM–1	P	02	–	



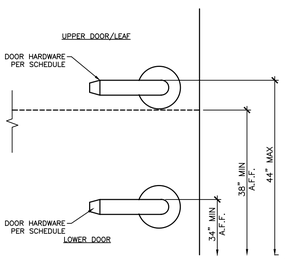
HM–1 HOLLOW METAL 16 GA. | TYPE F | TYPE N | TYPE L | TYPE D

GLASS TYPE ABBREVIATIONS

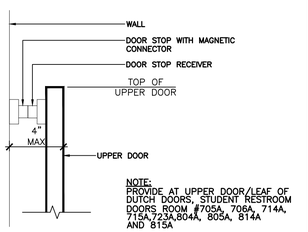
ITC = INSULATED TEMPERED GLASS, CLEAR
ITT = INSULATED TEMPERED GLASS, TINTED

DOOR MATERIAL LEGEND
HM: 18 GA. STEEL DOOR–HOLLOW CORE
SCW: SOLID CORE WOOD
SCL: SOLID CORE WOOD LEGACY
HCW: HOLLOW CORE WOOD
SF: STORE FRONT

NOTE:
CBC 1010.2.8.2 – NEW BUILDINGS ON A 12K PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INTERIOR. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.2. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.

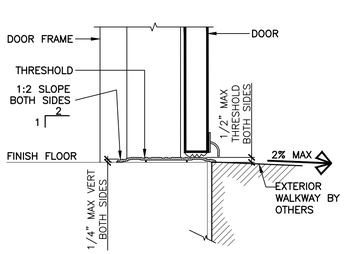


DUTCH DOOR LATCH (W/ SHELF) C
SCALE: NTS



NOTE:
PROVIDE AT UPPER DOOR/LEAF OF DUTCH DOORS, STUDENT RESTROOM DOORS, ROOM #705A, 706A, 714A, 715A,723A,804A, 805A, 814A AND 815A

DUTCH UPPER DOOR STOP/OPEN HOLD D
SCALE: NTS



ACCESSIBLE THRESHOLD 1
SCALE: NTS

FINISH SCHEDULE - BUILDING 700

RM NO.	ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	BASE HEIGHT	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	REMARKS
701	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	GB–1	PT–2	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
702	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
703	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
704	TEACHER WORK RM	CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
705	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
706	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
707	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
708	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
709	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	GB–1	PT–2	ACT	FF	9'–0"	
710	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	GB–1	PT–2	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
711	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
712	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
713	TEACHER WORK RM	CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
714	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
715	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
716	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
717	IDF	CS–1	RB–1	4"	GB–1	PT–2	PW–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
718	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
719	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	GB–1	PT–2	ACT	FF	9'–0"	
720	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	GB–1	PT–2	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
721	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
722	TEACHER WORK RM	CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
723	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
724	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	PT–2	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
725	ELECTRICAL	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	–	–	–	
726	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
727	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
728	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	

FINISH SCHEDULE – BUILDING 800

RM NO.	ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	BASE HEIGHT	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	REMARKS
801	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	GB–1	PT–2	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
802	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
803	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
804	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
805	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
806	TEACHER WORK RM	CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
807	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
808	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
809	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	GB–1	PT–2	ACT	FF	9'–0"	
810	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	GB–1	PT–2	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
811	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
812	STORAGE	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
813	IDF	CS–1	RB–1	4"	GB–1	PT–2	PW–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	8'–6"	
814	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
815	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
816	TEACHER WORK RM	CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	TB–1	FF	ACT	FF	9'–0"	
817	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
818	KITCHENETTE	LVT–1	RB–1	4"	FRP–1	FF	FRP–1	FF	FRP–1	FF	FRP–1	FF	ACT	FF	9'–0"	
819	CLASSROOM	LVT–1, CPT–1	RB–1	4"	TB–1	FF	TB–1	FF	TB–1	FF	GB–1	PT–2	ACT	FF	9'–0"	
820	STAFF RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
821	STUDENT RR	CT–1	CT–2	6"	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1, CT–1	PT–1	GB–1	PT–1	8'–6"	
822	CUSTODIAL/STORAGE	CS–1	RB–1	6"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–1	8'–6"	
824	ELECTRICAL	CS–1	RB–1	4"	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–2	GB–1	PT–1	–	

FINISH MATERIAL ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
ACP–1	2x4 SUSPENDED ACOUSTIC CEILING PANELS
CP–1	CONCRETE, POLISHED
CSL–1	CONCRETE SELF LEVELING
CS–1	CONCRETE, SEALED
CPT–1	CARPET, ROLLED (COLOR 1)
CPT–M	CARPET, TILE WALK OFF MAT
CT–1	CERAMIC TILE
CT–2	CERAMIC TILE COVE BASE
CT–3	CERAMIC FLOOR TILE
EP–1	EPOXY
EP–2	EPOXY, 6" COVE BASE
FF	FACTORY FINISH
FRP–1	FIBER REINFORCED PLASTIC PANEL OVER GYPSUM BOARD
FRP–2	FIBER REINFORCED PLASTIC PANEL WAINSCOT OVER GYPSUM BOARD
GB–1	GYPSUM BOARD
GB–2	GYPSUM BOARD, HIGH IMPACT
H. L.	HARD LID CEILING
LVT–1	LUXURY VINYL TILE
PT	PAINT
PT–1	PAINT, SEMI–GLOSS
PT–2	PAINT, EGGSHELL ENAMEL
PW–1	PLYWOOD
PW–2	PLYWOOD WAINSCOT OVER GYPSUM BOARD
RB	RESILIENT BASE, 6" TYP.
RB–1	RESILIENT BASE, 4" TYP. (U.N.O.)
SV–1	SHEET VINYL FLOORING
TB	VINYL COVERED TACKBOARD
TB–1	VINYL COVERED TACKBOARD OVER GYPSUM BOARD
TB–2	VINYL COVERED TACKBOARD (FRAMED)

WALL FINISH LEGEND: (CHECK BOX WHERE APPLICABLE)
VT: 1/2" VINYL TACK BOARD OVER: 1/2" GYP BOARD ☒ OPTIONAL 5/8" GYP BOARD ☐
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS

FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER: 1/2" MOISTURE RESISTANT GYP BOARD ☒ OPTIONAL 5/8" MOISTURE RESISTANT GYP BOARD ☐

PGYP: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED ☐ OPTIONAL 5/8" GYP BOARD TAPE/TEXTURED/PAINTED ☐
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS AND/OR WET AREAS

CEILING FINISH LEGEND: (CHECK BOX WHERE APPLICABLE)
ACT: ACOUSTICAL TILE IN HEAVY DUTY T–BAR GRID
CEILING TILE: CORTEGA #769
CEILING GRID: MAIN: ARMSTRONG 7301, 4' XL7340,2' XL8320

HL: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED ☒ 5/8" GYP BOARD TAPE/TEXTURED/PAINTED ☐

CEILING HEIGHTS	
☒	8'–6" SEE NOTE BELOW
☒	9'–0" SEE NOTE BELOW
☐	9'–6" SEE NOTE BELOW
☐	10'–0" SEE NOTE BELOW

NOTE:
FOR CEILING HEIGHT SEE HSS COLUMN SCHEDULE ON S0.1, S0.1P OR S0.2

FINISH SCHEDULE REMARKS

A. SEE FLOOR PLAN FOR FLOOR FINISH TRANSITION

B. ALL DOORS, DOOR FRAMES AND WINDOW FRAMES THAT RECEIVE A PAINT FINISH ARE TO MATCH THE ADJACENT WALL COLOR, UNLESS DESIGNATED WITH A SPECIFIC COLOR OR FINISH FLOOR PLAN

C. FLOORING AND BASE SHALL BE EXTENDED INTO KNEE/TOE CLEAR SPACE BELOW SINKS

D. BASE BID: CT-1 CERAMIC TILE WAINSCOT

FINISH SCHEDULE GENERAL NOTES

1. ALL INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH CBC SECTION 803, AND HAVE A FLAME SPREAD INDEX NO GREATER THAN SPECIFIED IN CBC TABLE 803.11 AND CBC 804 INTERIOR FLOOR FINISHES FOR THE OCCUPANCY GROUP AND LOCATION DESIGNATED

2. ALL COLORS TO BE SELECTED BY ARCHITECT AT A LATER DATE

2

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
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FAX: (209) 676-8067
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SOUTHERN CALIFORNIA DIVISON
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FINISH, DOOR & WINDOW SCHEDULES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER S. SAHU EXP. 12/31/26 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER
A0.3-PS

WINDOW FRAME LEGEND
AL: ALUMINUM
HM: HOLLOW METAL
VL: VINYL

WINDOW FINISHES
CA: CLEAR ANODIZED
BA: BRONZE ANODIZED
PNT: PAINTED
VL: VINYL

GLAZING TYPES
1: TEMPERED GRAYLITE
2: CLEAR TEMPERED
3: DUAL PANE

GLAZING NOTE
1. GLAZING U-FACTOR: 0.68
2. SHGC: 0.45
3. VISIBLE TRANSMISSION: 0.39

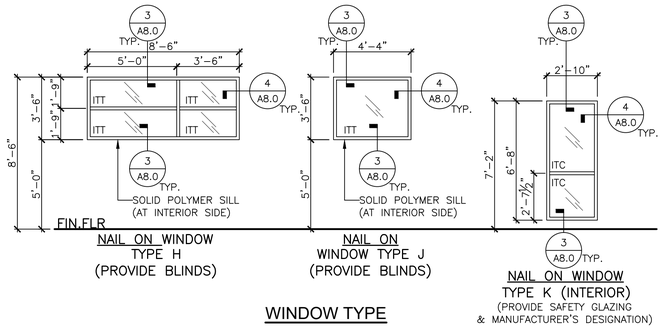
STC RATING EXTERIOR WINDOWS
☒ MIN STC 40 RATING

GLASS TYPE ABBREVIATIONS
ITC = INSULATED TEMPERED GLASS, CLEAR

ITT = INSULATED TEMPERED GLASS, TINTED

WINDOW SCHEDULE

*	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING	MAKE AND MODEL	REMARKS
H	8'-6"	3'-6"	AL	BA	1&3	–	ALL WEATHER ARCHITECTURAL ALUMIN. WINDOWS SERIES 5000	SCREENED
J	4'-4"	3'-6"	AL	BA	1&3	–	ALL WEATHER ARCHITECTURAL ALUMIN. WINDOWS SERIES 5000	SCREENED
K	2'-10"	6'-8"	AL	CA	1&3	–	ALL WEATHER ARCHITECTURAL ALUMIN. WINDOWS SERIES 5000	



NAIL ON WINDOW
TYPE H
(PROVIDE BLINDS)

NAIL ON
WINDOW TYPE J
(PROVIDE BLINDS)

NAIL ON WINDOW
TYPE K (INTERIOR)
(PROVIDE SAFETY GLAZING
& MANUFACTURER'S DESIGNATION)

WINDOW TYPE

NOTE:
1. ALL WINDOWS SHALL BE FIXED, U.O.N

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

WINDOW SCHEDULE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	01.29.25

SHEET NUMBER

A0.3a-PS

Project Name: Franklin Bldg 700 - West / Middle **Date Prepared:** 2024-10-04

A. General Information

1	Project Name	Franklin Bldg 700 - West / Middle			
2	Run Title				
3	Project Location	2736 Franklin Road			
4	City	Merced	5	Standards Version	Compliance 2022
6	Zip code	95348	7	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	12	9	Building Orientation (deg)	0
10	Building Type(s)	• Relocatable Public School Building for use in all climate zones Occupancy: E	11	Weather File	SACRAMENTO-EXECUTIVE_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	2486	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	394	17	Fuel Type	None
18	Nonresidential Conditioned Floor Area	2486	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. MultiFam	Performance Not Included	Solar Thermal Water Heating (See Table G)	☐ Performance ☒ Not Included	The following building components are ONLY eligible for prescriptive compliance approach and must comply with all applicable criteria. If they are not listed on the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
Mechanical (See Table H)	Nonres. MultiFam	Performance Not Included	Covered Process: Commercial Kitchens (see Table J)	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
					Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres. MultiFam	Not Included Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance ☒ Not Included	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
					Building Components Complying with Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	Nonres. MultiFam	Performance Not Included	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 Basis of Design. Applicable criteria for compliance will not be shown on the NRCC-PRF-E.	
				☒ 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[1]		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	257.36	207.62	19.24
Proposed Design	205.61	205.61	16.48
Compliance Margins	**51.75**	**2.01**	**2.76**
	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] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is 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[1]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	22.31	20.98	1.33
Space Cooling	70.56	58.6	11.96
Indoor Fans	132.54	103.38	29.16
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	31.95	22.65	9.3
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**257.36**	**205.61**	**51.75 (20.1%)**
Photovoltaics	-49.74	---	-49.74
Batteries	---	---	---
TOTAL COMPLIANCE	**207.62**	**205.61**	**2.01 (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	66.68	66.68	---
Process	---	---	---
Other Ltg	4.37	2.74	1.63
Process Motors	2.86	2.86	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**283.53**	**277.89**	**3.64 (1.3%)**

[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[1]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	3.09	2.88	0.21
Space Cooling	2.63	2.12	0.51
Indoor Fans	12.72	9.66	3.06
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**21.01**	**16.48**	**4.53 (21.6%)**
Photovoltaics	-1.77	---	-1.77
Batteries	---	---	---
TOTAL COMPLIANCE	**19.24**	**16.48**	**2.76 (14.3%)**

[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	5.01	5.01	---
Process	---	---	---
Other Ltg	0.35	0.22	0.13
Process Motors	0.2	0.2	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**24.8**	**21.91**	**2.89 (11.7%)**

[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

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	1.8	1.7	0.1	---	---	---
Space Cooling	4.3	3.2	1.1	---	---	---
Indoor Fans	11.4	8.9	2.5	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	3.1	2.2	0.9	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**20.6**	**16**	**4.6**	**0**	**0**	**0**
Photovoltaics	-6.3	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**14.3**	**16**	**-1.7**	**0**	**0**	**0**
Receptacle	6.7	6.7	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	0.4	0.3	0.1	---	---	---
Process Motors	0.3	0.3	0	---	---	---
ENERGY USE TOTAL	**21.7**	**23.3**	**-1.6**	**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]	33.17	27.6	5.57	16.79
NET EUI[1]	25.71	27.6	-1.89	-7.35

[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-CTI-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(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 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
North-Facing[1]	864	120	13.89
East-Facing[2]	497	0	0
South-Facing[3]	652	90	13.8
West-Facing[4]	497	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 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
Total	**2510**	**210**	**8.37**
Roof	2486	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 Building Story Name	02 Air Barrier
BuildingStory 1	Air barrier - not verified

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01 Surface Name	02 Construction Type	03 Area (ft²)	04 Framing Type	05 Cavity R-Value	06 Continuous R-Value Interior	06 Continuous R-Value Exterior	07 Units	08 Value	09 Description of Assembly Layers	10 Status[1]
G - 2x6 Exterior	Exterior Wall	2,782	Wood	19	N/A	N/A	U-factor	0.0618	Wood siding - 1/2 in. Building Paper - 1/16 in. G - 2x6 Wood w/ R-19 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
G - Conc Floor	Exterior Floor	2,880	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
G - Metal roof w/ R-30	Roof	2,880	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. G - Roof Joist w/ R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	N

[1] Status: N - New, A - Altered, E - Existing

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01 Assembly Name	02 Area (ft²)	03 Overall U-factor	04 Status[1]
G - HM Door	126	1.45	N

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01 Fenestration Assembly Name	02 Fenestration Type/ Product Type / Frame Type	03 Certification Method[1]	04 Assembly Method	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[2]
G - Storefront	Vertical fenestration Fixed window N/A	NFRC	Manufactured	210	0.68	0.45	0.39	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

H3. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating Total Heating Output (kBtu/h)	05 Heating Supp Heat Output (kBtu/h)	06 Heating Efficiency Unit	07 Heating Efficiency	08 Cooling Total Cooling Output (kBtu/h)	09 Cooling Efficiency Unit	10 Cooling Efficiency	11 Economizer Type (if present)	12 Status[1]
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N
WHCD4BH3 HVAC 02	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan CFM	04 Supply Fan Power	04 Supply Fan Power Units	04 Supply Fan Control	05 Return / Relief Fan Fan Type	05 Return / Relief Fan CFM	05 Return / Relief Fan Power	05 Return / Relief Fan Power Units	05 Return / Relief Fan Control	06 DCV or Occupant Sensor Controls, or Both	07 Status[1]
WHCD4BH3 HVAC 01	1	429.4	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N	
WHCD4BH3 HVAC 02	1	515.28	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N	

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01 System ID	02 Zone Name	03 Qty	04 CFM	05 Power	06 Power Units	07 Continuous Operation?	08 Status[1]
RR Exhaust 01	T2 Unconditioned	1	200	0.13	BHP	No	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(o)[1]	04 Other Special Features and Controls
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
WHCD4BH3 HVAC 02	Single Zone Heat Pump (SZHP) Air System	N/A	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 Zone Name	02 Mechanical Ventilation Ventilation Function	02 # of People	02 Supply OA CFM	03 Exhaust CFM	04 Conditioned Area (sf)	05 DCV or Occupant Sensor Controls, or Both
ThermalZone 01	Education - Classrooms (ages 9-18)	28.25	429.4	0	1130	DCV
ThermalZone 02	Education - Classrooms (ages 9-18)	33.9	515.28	0	1356	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h) Heating	04 Rated Capacity (kBtu/h) Cooling	05 Airflow (cfm) Design	05 Airflow (cfm) Min.	06 Min. Ratio	07 Fan Power	08 Fan Power Units	09 Fan Cycles	10 VSD
TerminalUnit 01	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 02	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01 Occupancy Type[1]	02 Conditioned Floor Area[2] (ft²)	03 Installed Lighting Power (Watts)	04 Lighting Control Credits (Watts)	05 Additional (Custom) Allowance Area Category Footnotes (Watts)	06 Additional (Custom) Allowance Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	2486	1057.1	0	0	0
Building Totals:	**2486**	**1057.1**	**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 Name or Item Tag	02 Complete Luminaire Description (i.e. 4 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	03 Installed Watts (Conditioned) Watts per luminaire	04 How is Wattage determined	05 Total Number of Luminaires	06 Installed Watts
2x4 LED		34.1	According to	31	105.7

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 Area Description	02 Primary Function Area (must match primary function in 140.6-A and 170.2-L)	03 Type of Lighting Control	04 Power Adjustment Factor (PAF)	05 Luminaire Item Tag	06 Watts per Luminaire	07 # of Luminaires	08 Lighting Control Credits (Watts)	09 Control Credit (Watts)
Classroom 01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	10	341	0
Classroom 01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
Classroom 02	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	11	375.1	0
Classroom 02	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
						Lighting Control Credits (Conditioned) Total (Watts):		**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

I. 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-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
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

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
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

Documentation Author's Declaration Statement

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Issam Kayal	Documentation Author Signature:
Company: Global Modular, Inc	Signature Date: 10/10/2024
Address: 450 Commerce Ave	CEA/HERS Certification Identification (if applicable): n/a
City/State/Zip: Atwater, CA 95301	Phone: (209) 676-8029

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: Ryan Omer	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Rd #121	License #: S 6437
City/State/Zip: San Diego, CA 92127	Title: Engineer Scope: Entire Design
Phone: (858) 679-1974	

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH · MODULAR STRUCTURES INTERNATIONAL, INC DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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FAX: (951) 686-3666
WE

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
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.	
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:06:53-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Building Occupancies	Relocatable Public SchoolSchool or Classroom
02	Climate Zone	12	05	Construction Type	New construction
03	Conditional Floor Area (ft²)	2486	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 feet¹
☐	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

¹FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

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CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 3 of 7)
	Date Prepared: 2024-10-04T21:06:53-04:00

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)		
518.4	<=	520	OR		<=		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 I.														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.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 231110-1024-0002 Report Generated: 2024-10-04 18:06:56

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 5 of 7)
	Date Prepared: 2024-10-04T21:06:53-04:00

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

¹FOOTNOTE: 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.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSAME <> UserChangesSelectionIn12. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

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STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:06:53-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Issam Kayal	Signature Date: 10/10/2024
Company: Global Modular, Inc	
Address: 430 COMMERCE AVE	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: ATWATER, CA 95301	Phone: (209) 676-8029

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, Parts 1 and 6 and the 2022 Reference Manual.
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: Pojan Omar	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Road, Suite 121	License: S 4437
City/State/Zip: San Diego, CA 92127	Phone: (858) 678-1974

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 231110-1024-0002 Report Generated: 2024-10-04 18:06:56

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 2 of 7)
	Date Prepared: 2024-10-04T21:06:53-04:00

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)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	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.
☒	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

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. Compliance meets Exception 2 to solar ready requirements in 110.10(b).	

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STATE OF CALIFORNIA
Solar And Battery
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CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 4 of 7)
	Date Prepared: 2024-10-04T21:06:53-04:00

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	02	03	04	05	06			07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylit)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access			Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
					Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)		
Total New or Added Roof Area	3456	0	518.4						518.4

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar-Ready Zone	Roof Plans	Low slope		Yes	Yes	Yes	Yes	80	520	COMPLIES

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: 231110-1024-0002 Report Generated: 2024-10-04 18:06:56

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 700 - West / Middle	**Report Page:** (Page 6 of 7)
	Date Prepared: 2024-10-04T21:06:53-04:00

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

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: 231110-1024-0002 Report Generated: 2024-10-04 18:06:56

SOLAR & BATTERY (NRCC-SAB-E)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

BUILDING 700 WEST/MIDDLE SECTION T-24 COMPLIANCE FORMS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER POJAN OMAR No. S 4437 EXP. 12/31/26 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	10.08.24

SHEET NUMBER

A0.11-PS

Project Name: — **Franklin Bldg 700 - East** — **Date Prepared:** — **2024-10-04**

A. General Information

1	Project Name	Franklin Bldg 700 - East			
2	Run Title				
3	Project Location	2736 Franklin Road			
4	City	Merced	5	Standards Version	Compliance 2022
6	Zip code	95348	7	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	12	9	Building Orientation (deg)	0
10	Building Type(s)	• Relocatable Public School Building for use in all climate zones Occupancy: E	11	Weather File	SACRAMENTO-EXECUTIVE_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	1372	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	548	17	Fuel Type	None
18	Nonresidential Conditioned Floor Area	1372	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. MultiFam	Performance Not Included	Solar Thermal Water Heating (See Table I1)	☐ Performance ☒ Not Included	The following building components are ONLY eligible for prescriptive compliance and must comply prescriptively if within the permit application. If not within the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
Mechanical (See Table H)	Nonres. MultiFam	Performance Not Included	Covered Process: Commercial Kitchens (see Table J)	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
					Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres. MultiFam	Not Included Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance ☒ Not Included	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
					Building Components Complying with Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	Nonres. MultiFam	Performance Not Included	Photovoltaics (see Table I)	☐ Performance ☒ Not Included	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form that is applicable to the type of compliance will not be shown on the NRCC-PRF-E.	
					Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table I)	☐ Performance ☒ Not Included	Commissioning 120.8	NRCC-CXR-E is required
					Solar and Battery 110.10	NRCC-CXR-E is required

C1. COMPLIANCE SUMMARY

	COMPLIES[1]		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	263.05	263.05	21.5
Proposed Design	199.77	199.77	15.98
Compliance Margins	**63.28**	**63.28**	**5.52**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Tests include efficiency, photovoltaics and batteries
[3] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is 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[1]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	22.39	22.89	-0.5
Space Cooling	73.58	61.2	12.38
Indoor Fans	136.12	94.58	41.54
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	30.96	21.1	9.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**263.05**	**199.77**	**63.28 (24.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**263.05**	**199.77**	**63.28 (24.1%)**

[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	80.91	80.91	---
Process	---	---	---
Other Ltg	10.69	7.45	3.24
Process Motors	8.3	8.3	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**362.95**	**296.43**	**66.52 (18.3%)**

[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[1]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	3.1	3.19	-0.09
Space Cooling	2.84	2.24	0.6
Indoor Fans	13.07	8.85	4.22
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.49	1.7	0.79
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**21.5**	**15.98**	**5.52 (25.7%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**21.5**	**15.98**	**5.52 (25.7%)**

[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	6.08	6.08	---
Process	---	---	---
Other Ltg	0.86	0.6	0.26
Process Motors	0.59	0.59	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**29.03**	**23.25**	**5.78 (19.9%)**

[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	1	0	---	---	---
Space Cooling	2.5	1.9	0.6	---	---	---
Indoor Fans	6.5	4.5	2	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	1.6	1.1	0.5	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**11.6**	**8.5**	**3.1**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**11.6**	**8.5**	**3.1**	**0**	**0**	**0**
Receptacle	4.5	4.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	0.6	0.4	0.2	---	---	---
Process Motors	0.5	0.5	0	---	---	---
ENERGY USE TOTAL	**17.2**	**13.9**	**3.3**	**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]	30.57	24.7	5.87	19.2
NET EUI[1]	30.57	24.7	5.87	19.2

[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-CTI-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 140.1(b)2: 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]	576	60	10.42
East-Facing[2]	129	0	0
South-Facing[3]	377	45	13.76

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" east of south (SW), but excluding 45 00'00" west 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]	497	0	0
Total	**1529**	**105**	**6.87**
Roof	1372	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" east of south (SW), but excluding 45 00'00" west 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
Building/Story 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	Exterior	Units	Value	Description of Assembly Layers	Status[1]
G - 2x6 Exterior	Exterior Wall	2,342	Wood	19	N/A	N/A	U-factor	0.0618	Wood siding - 1/2 in. Building Paper - 1/16 in. G - 2x6 Wood w/ R-19 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
G- Conc Floor	Exterior Floor	1,920	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
G - Metal roof w/ R-30	Roof	1,920	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. G - Roof Joist w/ R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more 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]
G - HM Door	126	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]
G - Storefront	Vertical fenestration Fixed window N/A	NFRC	Manufactured	105	0.68	0.45	0.39	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

H3. 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]
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N
Mini Split Sys	MiniSplit HP	1	24	0	COP HSPF	3.4 8.8	24	EER SEER	12.2 15	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. 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]
WHCD4BH3 HVAC 01	1	472.72	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Mini Split Sys	1	0	600	0.13	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
RR Exhaust 01	TZ Unconditioned	1	300	0.2	BHP	No	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(o)[1]	Other Special Features and Controls
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	N/A	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, N/A means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
		Mechanical Ventilation				DCV or Occupant Sensor Controls, or Both
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
ThermalZone 01	Education - Classrooms (ages 9-16)	31.1	472.72	0	1244	DCV
MiniSplit TZ	Misc - Telephone closet(s)	0.19	0	0	128	N/A

H13. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			VSD
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
TerminalUnit 01	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
Mini Split Sys	MiniSplit HP	1	24	24	600	N/A	N/A	0.13	BHP	Cycling	☐

K3. 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	1244	511.5	0	0	0
Electrical Mechanical Telephone Room	128	32	0	0	0
Building Totals:	**1372**	**543.5**	**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. 4 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
2x4 LED	---	34.1	According to	15	511
1x4 LED	---	32	According to	1	32

[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.e)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	10	341	0
Classroom 01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
Electrical	Electrical Mechanical Telephone Room	N/A	N/A	1x4 LED	32	1	32	0
							Lighting Control Credits (Conditioned) Total (Watts):	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

I. 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-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
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

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
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

Documentation Author's Declaration Statement

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Issam Kayal	Documentation Author Signature:
Company: Global Modular, Inc	Signature Date: 10/10/2024
Address: 450 Commerce Ave	CEA/HERS Certification Identification (if applicable): n/a
City/State/Zip: Atwater, CA 95301	Phone: (209) 676-8029

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: Ryan Omer	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Rd #121	License #: S 6437
City/State/Zip: San Diego, CA 92127	Title: Engineer — Scope: Entire Design
Phone: (858) 679-1974	

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS — MODTECH — MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
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THIS DRAWING AND THE MATERIAL CONTAINED THERE-IN ARE TH

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
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.	
Project Name: Franklin - Bldg 700 East	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:02:22-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Building Occupancies	Relocatable Public School/School or Classroom
02	Climate Zone	12	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	1372	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 feet¹
☐	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

¹FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin - Bldg 700 East	**Report Page:** (Page 2 of 7)
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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)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	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.
☒	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

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. Compliance meets Exception 2 to solar ready requirements in 110.10(b).	

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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		02	OR	03		04	OR	05		06	OR	07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)		Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)		Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction		JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
345.6	<=	350	OR		<=		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 §110.10b5										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.

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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	02	03	04	05	06			07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylit)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access			Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
					Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)		
Total New or Added Roof Area	2304	0	345.6						345.6

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar-ready zone	Roof plans	Low slope		Yes	Yes	Yes	Yes	80	350	COMPLIES

STATE OF CALIFORNIA
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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 §110.10b5.	n/a

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.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSAME <> UserChangesSelectionIn12. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin - Bldg 700 East	**Report Page:** (Page 6 of 7)
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L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin - Bldg 700 East	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:02:22-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Issam Kayal	
Company:	Signature Date: 10/10/2024
Global Modular, Inc	
Address: 450 COMMERCE AVE	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: ATWATER, CA 95301	Phone: (209) 676-8029

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: Pojan Omar	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Road, Suite 121	License: S 4437
City/State/Zip: San Diego, CA 92127	Phone: (858) 678-1974

SOLAR & BATTERY (NRCC-SAB-E)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
RIVERSIDE, CA 92507
PHONE: (951) 686-3633
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

BUILDING 700 EAST SECTION T-24 COMPLIANCE FORMS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	10.08.24

SHEET NUMBER

A0.13-PS

Project Name: Franklin Bldg 800 - West | **Date Prepared:** 2024-10-04

A. General Information

1	Project Name	Franklin Bldg 800 - West			
2	Run Title				
3	Project Location	2736 Franklin Road			
4	City	Merced	5	Standards Version	Compliance 2022
6	Zip code	95348	7	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	12	9	Building Orientation (deg)	180
10	Building Type(s)	• Relocatable Public School Building for use in all climate zones Occupancy: E	11	Weather File	SACRAMENTO-EXECUTIVE_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	2486	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	394	17	Fuel Type	None
18	Nonresidential Conditioned Floor Area	2486	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. MultiFam	Performance Not Included	Solar Thermal Water Heating (See Table I)	☐ Performance ☒ Not Included	The following building components are ONLY eligible for prescriptive compliance and must be installed as specified in Table 140.6-A. If not listed on the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).
Mechanical (See Table H)	Nonres. MultiFam	Performance Not Included	Covered Process: Commercial Kitchens (see Table J)	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)
Domestic Hot Water (See Table I)	Nonres. MultiFam	Not Included Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance ☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)
Lighting (Indoor Conditioned, see Table K)	Nonres. MultiFam	Performance Not Included	Photovoltaics (see Table F)	☐ Performance ☒ Not Included	Sign Lighting 140.8 & 170.2(e)
			Battery (see Table F)	☐ Performance ☒ Not Included	**Building Components Complying with Mandatory Measures**
					Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form Basis of Design. Applicable for compliance will not be shown on the NRCC-PRF-E.
				☐ Performance ☒ Not Included	Electrical Power Distribution 110.11
				☐ Performance ☒ Not Included	Commissioning 120.8
				☐ Performance ☒ Not Included	Solar and Battery 110.10

C1. COMPLIANCE SUMMARY

	COMPLIES[1]		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	260.28	210.54	19.42
Proposed Design	205.48	205.48	16.38
Compliance Margins	**54.8**	**5.06**	**3.04**
	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] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is 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[1]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	21.95	20.51	1.44
Space Cooling	71.39	59.27	12.12
Indoor Fans	134.99	103.05	31.94
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	31.95	22.65	9.3
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**260.28**	**205.48**	**54.8 (21.1%)**
Photovoltaics	-49.74	---	-49.74
Batteries	---	---	---
TOTAL COMPLIANCE	**210.54**	**205.48**	**5.06 (2.4%)**

[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	66.68	66.68	---
Process	---	---	---
Other Ltg	4.37	2.74	1.63
Process Motors	2.86	2.86	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**284.45**	**277.76**	**6.69 (2.4%)**

[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[1]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	3.04	2.82	0.22
Space Cooling	2.66	2.15	0.51
Indoor Fans	12.92	9.59	3.33
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**21.19**	**16.38**	**4.81 (22.7%)**
Photovoltaics	-1.77	---	-1.77
Batteries	---	---	---
TOTAL COMPLIANCE	**19.42**	**16.38**	**3.04 (15.7%)**

[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	5.01	5.01	---
Process	---	---	---
Other Ltg	0.35	0.22	0.13
Process Motors	0.2	0.2	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**24.98**	**21.81**	**3.17 (12.7%)**

[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

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	1.7	1.6	0.1	---	---	---
Space Cooling	4.4	3.3	1.1	---	---	---
Indoor Fans	11.6	8.9	2.7	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	3.1	2.2	0.9	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**20.8**	**16**	**4.8**	**0**	**0**	**0**
Photovoltaics	-6.3	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**14.5**	**16**	**-1.5**	**0**	**0**	**0**
Receptacle	6.7	6.7	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	0.4	0.3	0.1	---	---	---
Process Motors	0.3	0.3	0	---	---	---
ENERGY USE TOTAL	**21.9**	**23.3**	**-1.4**	**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]	33.41	27.6	5.81	17.39
NET EUI[1]	25.95	27.6	-1.65	-6.36

[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-CTI-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(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 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
North-Facing[1]	652	90	13.8
East-Facing[2]	497	0	0
South-Facing[3]	864	120	13.89
West-Facing[4]	497	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 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
Total	**2510**	**210**	**8.37**
Roof	2486	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 Building Story Name	02 Air Barrier
BuildingStory 1	Air barrier - not verified

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01 Surface Name	02 Construction Type	03 Area (ft²)	04 Framing Type	05 Cavity R-Value	06 Continuous R-Value Interior	06 Continuous R-Value Exterior	07 Units	08 Value	09 Description of Assembly Layers	10 Status[1]
G - 2x6 Exterior	Exterior Wall	2,782	Wood	19	N/A	N/A	U-factor	0.0618	Wood siding - 1/2 in. Building Paper - 1/16 in. G - 2x6 Wood w/ R-19 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
G - Conc Floor	Exterior Floor	2,880	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
G - Metal roof w/ R-30	Roof	2,880	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. G - Roof Joist w/ R-30 Air Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	N

[1] Status: N - New, A - Altered, E - Existing

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01 Assembly Name	02 Area (ft²)	03 Overall U-factor	04 Status[1]
G - HM Door	126	1.45	N

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01 Fenestration Assembly Name	02 Fenestration Type/ Product Type / Frame Type	03 Certification Method[1]	04 Assembly Method	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[2]
G - Storefront	Vertical fenestration Fixed window N/A	NFRC	Manufactured	210	0.68	0.45	0.39	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

H3. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating Total Heating Output (kBtu/h)	05 Heating Supp Heat Output (kBtu/h)	06 Heating Efficiency Unit	07 Heating Efficiency	08 Cooling Total Cooling Output (kBtu/h)	09 Cooling Efficiency Unit	10 Cooling Efficiency	11 Economizer Type (if present)	12 Status[1]
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N
WHCD4BH3 HVAC 02	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan CFM	05 Supply Fan Power	06 Supply Fan Power Units	07 Supply Fan Control	08 Return / Relief Fan Fan Type	09 Return / Relief Fan CFM	10 Return / Relief Fan Power	11 Return / Relief Fan Power Units	12 Return / Relief Fan Control	13 Status[1]
WHCD4BH3 HVAC 01	1	429.4	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
WHCD4BH3 HVAC 02	1	515.28	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01 System ID	02 Zone Name	03 Qty	04 CFM	05 Power	06 Power Units	07 Continuous Operation?	08 Status[1]
RR Exhaust 01	T2 Unconditioned	1	200	0.13	BHP	No	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(e)[1]	04 Other Special Features and Controls
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
WHCD4BH3 HVAC 02	Single Zone Heat Pump (SZHP) Air System	N/A	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 Zone Name	02 Mechanical Ventilation Ventilation Function	03 # of People	04 Supply OA CFM	05 Exhaust CFM	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
ThermalZone 01	Education - Classrooms (ages 9-18)	28.25	429.4	0	1130	DCV
ThermalZone 02	Education - Classrooms (ages 9-18)	33.9	515.28	0	1356	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h) Heating	05 Rated Capacity (kBtu/h) Cooling	06 Airflow (cfm) Design	07 Airflow (cfm) Min.	08 Airflow (cfm) Min. Ratio	09 Fan Power	10 Fan Power Units	11 Fan Cycles	12 VSD
TerminalUnit 01	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 02	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01 Occupancy Type[1]	02 Conditioned Floor Area[2] (ft²)	03 Installed Lighting Power (Watts)	04 Lighting Control Credits (Watts)	05 Additional (Custom) Allowance Area Category Footnotes (Watts)	06 Additional (Custom) Allowance Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	2486	1057.1	0	0	0
Building Totals:	**2486**	**1057.1**	**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 Name or Item Tag	02 Complete Luminaire Description (i.e. 4 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	03 Installed Watts (Conditioned) Watts per luminaire	04 Installed Watts (Conditioned) How is Wattage determined	05 Total Number of Luminaires	06 Installed Watts
2x4 LED		34.1	According to	31	1057

[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 Area Description	02 Primary Function Area (must match a function listed in Table 140.6-A and 170.2-E)	03 Type of Lighting Control	04 Power Adjustment Factor (PAF)	05 Luminaire Item Tag	06 Watts per Luminaire	07 # of Luminaires	08 Lighting Control Credit (Watts)	09 Control Credit (Watts)
Classroom-01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	10	341	0
Classroom-01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
Classroom-02	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	11	375.1	0
Classroom-02	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
						Lighting Control Credits (Conditioned) Total (Watts):		**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

I. 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-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
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

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
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

Documentation Author's Declaration Statement

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Issam Kayal	Documentation Author Signature:
Company: Global Modular, Inc	Signature Date: 10/10/2024
Address: 450 Commerce Ave	CEA/HERS Certification Identification (if applicable): n/a
City/State/Zip: Atwater, CA 95301	Phone: (209) 676-8029

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: Ryan Omer	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Rd #121	License #: S 6437
City/State/Zip: San Diego, CA 92127	Title: Engineer — Scope: Entire Design
Phone: (858) 679-1974	

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS | MODTECH | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357
NORTHERN CALIFORNIA DIVISON
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ATWATER, CA 95301
PHONE: (209) 676-8029
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THIS DR

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
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.	
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:11:08-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Building Occupancies	Relocatable Public SchoolSchool or Classroom
02	Climate Zone	12	05	Construction Type	New construction
03	Conditional Floor Area (ft²)	2486	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 feet¹
☐	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

¹FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 2 of 7)
	Date Prepared: 2024-10-04T21:11:08-04:00

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)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	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.
☒	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

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. Compliance meets Exception 2 to solar ready requirements in 110.10(b).	

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 3 of 7)
	Date Prepared: 2024-10-04T21:11:08-04:00

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		02	OR	03		04	OR	05		06	OR	07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)		Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)		Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction		JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
518.4	<=	520	OR		<=		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 §110.10b5										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.

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 4 of 7)
	Date Prepared: 2024-10-04T21:11:08-04:00

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	02	03	04	05	06			07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylit)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access			Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
					Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)		
Total New or Added Roof Area	3456	0	518.4						518.4

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar-Ready Zone	Roof Plans	low slope		Yes	Yes	Yes	Yes	80	520	COMPLIES

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 5 of 7)
	Date Prepared: 2024-10-04T21:11:08-04:00

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 §110.10b5.	n/a

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.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSAME <> UserChangesSelectionIn12. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 6 of 7)
	Date Prepared: 2024-10-04T21:11:08-04:00

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Franklin Bldg 800 - West	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:11:08-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Issam Kayal	Signature Date: 10/10/2024
Company: Global Modular, Inc	
Address: 450 COMMERCE AVE	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: ATWATER, CA 95301	Phone: (209) 676-8029

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, Parts 1 and 6 and the 2022 Reference Manual.
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: Pujan Omar	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Road, Suite 121	License: S 4437
City/State/Zip: San Diego, CA 92127	Phone: (858) 678-1974

SOLAR & BATTERY (NRCC-SAB-E)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL INC DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
RIVERSIDE, CA 92507
PHONE: (951) 686-3633
FAX: (951) 686-3666
WEBSITE: WWW.GDVI.NET

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

BUILDING 800 WEST SECTION T-24 COMPLIANCE FORMS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER PUJAN OMAR No. S 4437 EXP. 12/31/26 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	10.08.24

SHEET NUMBER

A0.15-PS

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 18)

Project Name: Franklin Bldg 800 - East **Date Prepared:** 2024-10-04

A. General Information

1	Project Name	Franklin Bldg 800 - East				
2	Run Title					
3	Project Location	2736 Franklin Road				
4	City	Merced	5	Standards Version	Compliance 2022	
6	Zip code	95348	7	Compliance Software (version)	CBECC 2022.3.0 (1302)	
8	Climate Zone	12	9	Building Orientation (deg)	0	
10	Building Type(s)	• Relocatable Public School Building for use in all climate zones Occupancy: E	11	Weather File	SACRAMENTO-EXECUTIVE_STYP20.epw	
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0	
14	Total Conditioned Floor Area in Scope (ft²)	2569	15	Total # of hotel/motel rooms	0	
16	Total Unconditioned Floor Area (ft²)	791	17	Fuel Type	None	
18	Nonresidential Conditioned Floor Area	2569	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. MultiFam	Performance Not Included	Solar Thermal Water Heating (See Table I)	☐ Performance ☒ Not Included	The following building components are ONLY eligible for prescriptive compliance approach when the project is not claiming EDR2 or ZERO. If they are part of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
Mechanical (See Table H)	Nonres. MultiFam	Performance Not Included	Covered Process: Commercial Kitchens (see Table J)	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
Domestic Hot Water (See Table I)	Nonres. MultiFam	Not Included Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance ☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
					Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
					Building Components Complying with Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	Nonres. MultiFam	Performance Not Included	Photovoltaics (see Table F)	☐ Performance ☒ Not Included	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form that is applicable. Compliance will not be shown on the NRCC-PRF-E.	
					Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance ☒ Not Included	Commissioning 120.8	NRCC-CXR-E is required
					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[1]			
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	254.45	204.71	18.8
Proposed Design	199.62	199.62	15.79
Compliance Margins	**54.83**	**5.09**	**3.01**
	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] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is 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[1]			
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Space Heating	20.24	19.67	0.57
Space Cooling	70.91	59.32	11.59
Indoor Fans	131.94	99.47	32.47
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	31.36	21.16	10.2
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**254.45**	**199.62**	**54.83 (21.5%)**
Photovoltaics	-49.74	---	-49.74
Batteries	---	---	---
TOTAL COMPLIANCE	**204.71**	**199.62**	**5.09 (2.5%)**

[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)[2]
Receptacle	74.72	74.72	---
Process	---	---	---
Other Ltg	8.8	5.31	3.49
Process Motors	11.08	11.08	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**299.31**	**290.73**	**8.58 (2.9%)**

[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[1]			
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Space Heating	2.79	2.72	0.07
Space Cooling	2.7	2.18	0.52
Indoor Fans	12.56	9.19	3.37
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.52	1.7	0.82
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**20.57**	**15.79**	**4.78 (23.2%)**
Photovoltaics	-1.77	---	-1.77
Batteries	---	---	---
TOTAL COMPLIANCE	**18.8**	**15.79**	**3.01 (16%)**

[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)[2]
Receptacle	5.61	5.61	---
Process	---	---	---
Other Ltg	0.71	0.43	0.28
Process Motors	0.78	0.78	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**25.9**	**22.61**	**3.29 (12.7%)**

[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	1.6	1.6	0	---	---	---
Space Cooling	4.6	3.5	1.1	---	---	---
Indoor Fans	11.8	8.9	2.9	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	3.1	2.1	1	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**21.1**	**16.1**	**5**	**0**	**0**	**0**
Photovoltaics	-6.5	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**14.6**	**16.1**	**-1.5**	**0**	**0**	**0**
Receptacle	7.7	7.7	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	0.9	0.5	0.4	---	---	---
Process Motors	1.3	1.3	0	---	---	---
ENERGY USE TOTAL	**24.5**	**25.6**	**-1.1**	**0**	**0**	**0**

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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]	31.48	26	5.48	17.41
NET EUI[1]	24.88	26	-1.12	-4.5

[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-CTI-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(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]	633	90	14.22
East-Facing[2]	129	0	0
South-Facing[3]	1008	120	11.9
West-Facing[4]	497	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).

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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 (%)**
Total	**2267**	**210**	**9.26**
Roof	2569	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

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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**				
G - 2x6 Exterior	Exterior Wall	3,080	Wood	19	N/A	N/A	U-factor	0.0618	Wood siding - 1/2 in. Building Paper - 1/16 in. G - 2x6 Wood w/ R-19 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
G- Conc Floor	Exterior Floor	3,360	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
G - Metal roof w/ R-30	Roof	3,360	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. G - Roof Joist w/ R-30 Air Cavity - Wall Roof Ceiling - 4 in. or more 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]**
G - HM Door	231	1.45	N

[1] Status: N - New, A - Altered, E - Existing

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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]**
G - Storefront	Vertical fenestration Fixed window N/A	NFRC	Manufactured	210	0.68	0.45	0.39	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

H3. 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]**
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N
WHCD4BH3 HVAC 02	Single Zone Heat Pump (SZHP) Air System	1	44	0	COP HSPF	3.6 8.8	48.75	EER SEER	13 16.5	Fixed DB	N
Mini Split Sys	MiniSplit HP	1	24	0	COP HSPF	3.4 8.8	24	EER SEER	12.2 15	N/A	N

[1] Status: N - New, A - Altered, E - Existing

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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]**
WHCD4BH3 HVAC 01	1	429.4	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
WHCD4BH3 HVAC 02	1	492.48	1,600	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Mini Split Sys	1	0	600	0.13	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	**Zone Name**	**Qty**	**CFM**	**Power**	**Power Units**	**Continuous Operation?**	**Status[1]**
RR Exhaust 01	TZ Unconditioned	1	450	0.5	BHP	No	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(c)[1]**	**Other Special Features and Controls**
WHCD4BH3 HVAC 01	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
WHCD4BH3 HVAC 02	Single Zone Heat Pump (SZHP) Air System	N/A	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.

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Nonresidential Performance Compliance Method (Page 14 of 18)

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
		Mechanical Ventilation				**DCV or Occupant Sensor Controls, or Both**
Zone Name	**Ventilation Function**	**# of People**	**Supply OA CFM**	**Exhaust CFM**	**Conditioned Area (sf)**	
ThermalZone 01	Education - Classrooms (ages 9-16)	28.25	429.4	0	1130	DCV
ThermalZone 02	Education - Classrooms (ages 9-16)	32.4	492.48	0	1296	DCV
MiniSplit TZ	Misc - Telephone closets	0.21	0	0	143	N/A

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**			**VSD**
System ID	**System Type**	**Qty**	**Heating**	**Cooling**	**Design**	**Min.**	**Min. Ratio**	**Power**	**Power Units**	**Cycles**	
TerminalUnit 01	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 02	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
Mini Split Sys	MiniSplit HP	1	24	24	600	N/A	N/A	0.13	BHP	Cycling	☐

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Nonresidential Performance Compliance Method (Page 15 of 18)

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	2426	988.9	0	0	0
Electrical Mechanical Telephone Room	143	32	0	0	0
Building Totals:	**2569**	**1020.9**	**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**
2x4 LED	---	34.1	According to	29	988
1x4 LED	---	32	According to	1	32

[1]lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

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Nonresidential Performance Compliance Method (Page 16 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**	**Manufacturer**	**Luminaire Item Tag**	**Watts per Luminaire**	**# of Luminaires**	**Lighting Controlled (Watts)**	**Control Credit (Watts)**
Classroom 01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	8	272.8	0
Classroom 01	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
Classroom 02	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	11	375.1	0
Classroom 02	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	34.1	5	170.5	0
Electrical	Electrical Mechanical Telephone Room	N/A	N/A	1x4 LED	32	1	32	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-E I - Envelope (for all buildings)
Mechanical	NRCI-MCH-E I - For all buildings with Mechanical Systems
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 17 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

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
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 18 of 18)

Documentation Author's Declaration Statement

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Issam Kayal	Documentation Author Signature:
Company: Global Modular, Inc	Signature Date: 10/10/2024
Address: 450 Commerce Ave	CEA/HERS Certification Identification (if applicable): n/a
City/State/Zip: Atwater, CA 95301	Phone: (209) 676-8029

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: Ryan Elmer	Responsible Designer Signature:
Company: Orion Structural Engineering	
Address: 11305 Rancho Bernardo Rd #121	Date Signed: 10/10/2024
City/State/Zip: San Diego, CA 92127	License #: S 4437
Phone: (858) 679-1974	Title: Engineer Scope: Entire Design

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
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.	
Project Name: Franklin Bldg 800 - East	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2024-10-04T21:15:53-04:00

A. GENERAL INFORMATION				
01	Project Location (city)	Merced	04 Building Occupancies	Relocatable Public School/School or Classroom
02	Climate Zone	12	05 Construction Type	New construction
03	Conditional Floor Area (ft²)	2569	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 feet¹
☐ Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

¹FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

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)		
604.8	<=	610	OR		<=		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 §110.10b5										COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table I.														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.

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 §110.10b5.	n/a

¹FOOTNOTE: 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.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSAME <> UserChangesSelectionIn12. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Issam Kayal	Signature Date: 10/10/2024
Company: Global Modular, Inc	
Address: 450 COMMERCE AVE	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: ATWATER, CA 95301	Phone: (209) 676-8029

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: Pojan Omar	Responsible Designer Signature:
Company: Orion Structural Engineering	Date Signed: 10/10/2024
Address: 11305 Rancho Bernardo Road, Suite 121	License: S 6437
City/State/Zip: San Diego, CA 92127	Phone: (858) 678-1974

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)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐ Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐ Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐ Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐ Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐ Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	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.
☒ The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

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. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

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	02	03	04	05	06			07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylit)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones¹	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access			Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
					Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)		
Total New or Added Roof Area	4032	0	604.8						604.8

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar-Ready Zone	Roof Plans	Low slope		Yes	Yes	Yes	Yes	80	610	COMPLIES

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

SOLAR & BATTERY (NRCC-SAB-E)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
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CONTRACTORS LICENSE #837357

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

BUILDING 800
EAST SECTION
T-24
COMPLIANCE FORMS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · POJAN OMAR · No. S 6437 · EXP. 12/31/26 · STRUCTURAL · STATE OF CALIFORNIA

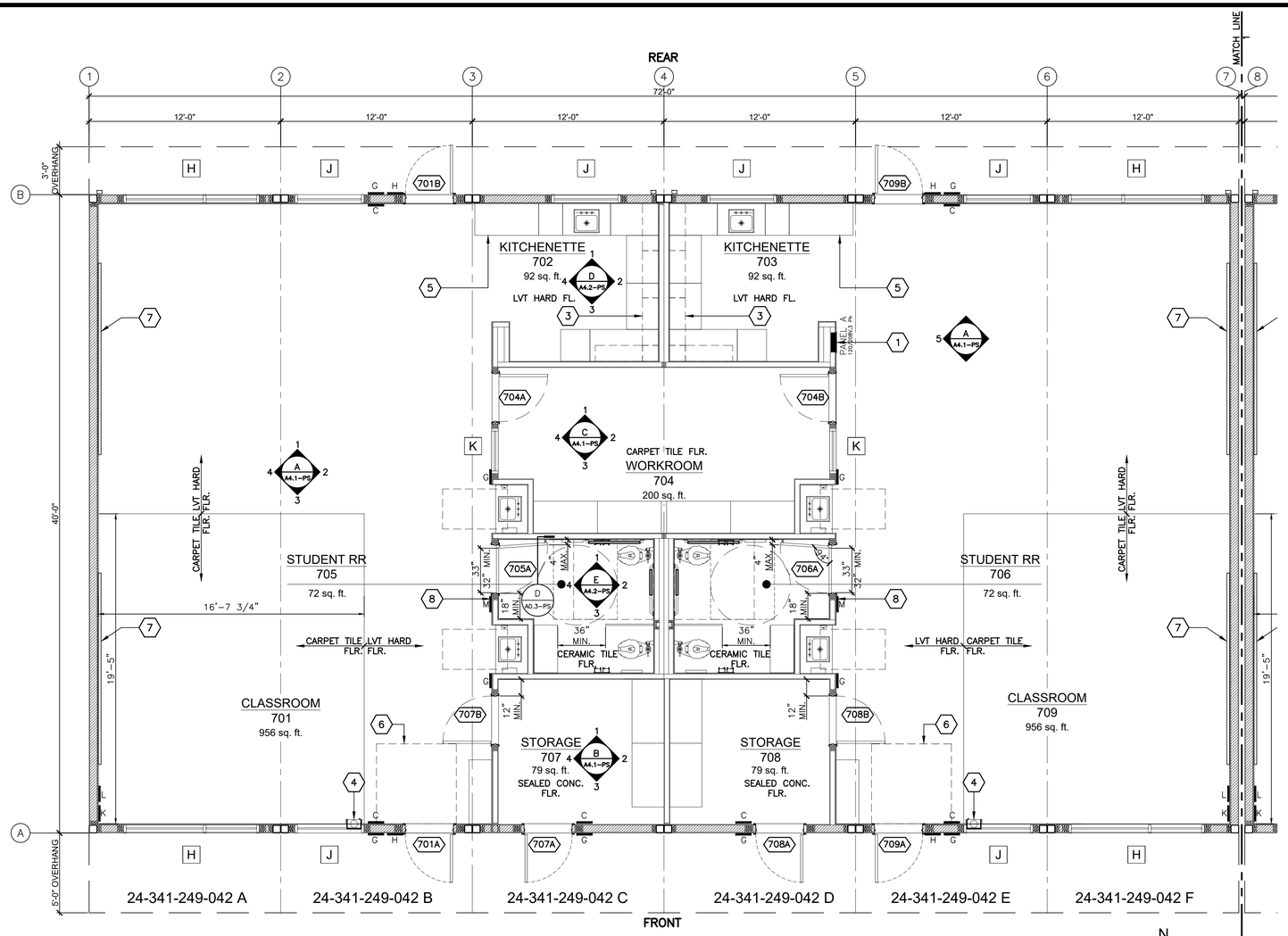
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

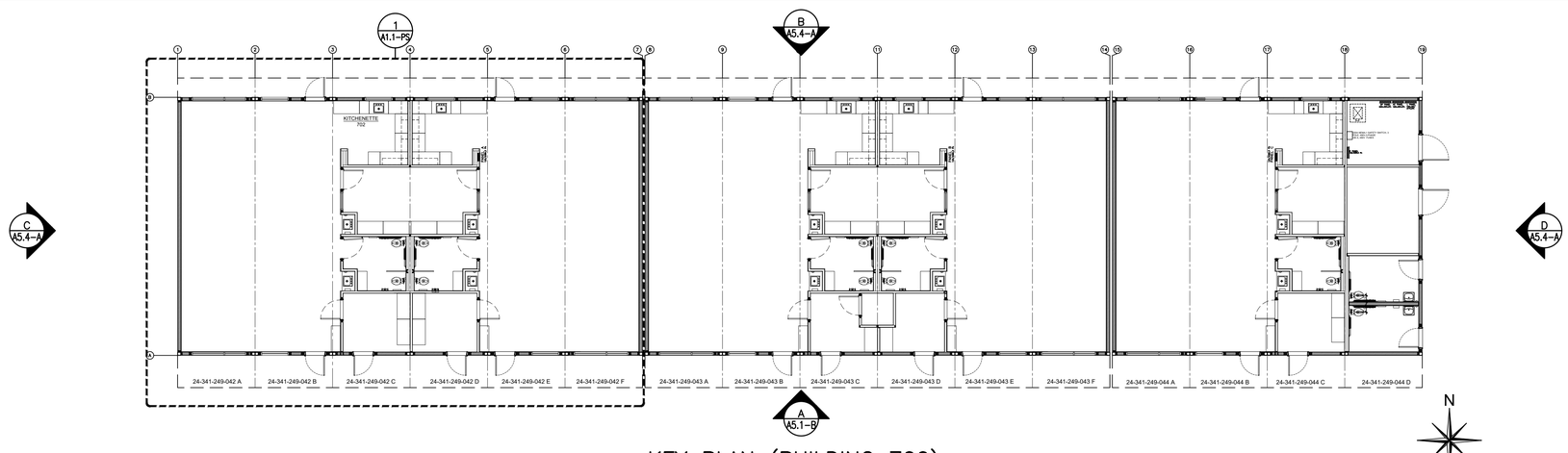
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	10.08.24

SHEET NUMBER
A0.17-PS



FLOOR PLAN 72'x40' "1" (BUILDING 700)

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

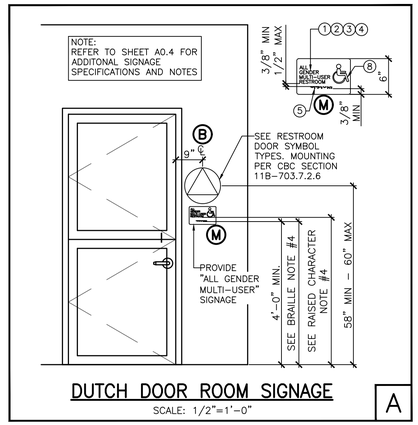


KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
2. NOT USED
3. UPPER CABINETS
4. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2–A:10–B:C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP. SEE #4 OR #10/A8.1 FOR BLOCK–OUT (PLACED BELOW HIGH WINDOW SEE INTERIOR ELEVATIONS)
5. BASE CABINETS
6. PRIMARY ENTRANCES SHALL REQUIRE A MIN 48" OVERHANG OR AWNING OR RECESSED AREA OR OTHER APPROPRIATE METHOD INCLUDING A 60" X 60" MIN FLOOR AREA USING VCT OR SHEET VINYL WHEN USING CARPET FLOORING PER CALGREEN SECTION 5.407.2.2.1
7. MARKER BOARD(S) 12'–0" x 4'–0"
8. "ALL GENDER MULTI–USER" RESTROOM SIGNAGE PER DETAIL A/A1.1–PS



DUTCH DOOR ROOM SIGNAGE

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

INSULATION VALUES

WALLS = R–19

ROOF = R–19 BATT

FLOOR = CONC, NO INSULATION

SIGNAGE LEGEND

- A. = RESTROOM WALL SIGN – #1A/A0.4
- B. = RESTROOM DOOR SIGN – #1B/A0.4
- C. = EXIT TACTILE SIGN – # C/A0.4
- E. = NOT USED
- G. = ID SIGN – # G/A0.4
- H. = ID SIGN WITH ISA IDENTIFICATION – # H/A0.4
- I. = FLOOR LIVE LOAD
- J. = NOT USED
- K = OCCUPANT LOAD – # K/A0.4
- L = ASSISTIVE LISTENING – L/A0.4
- M = ALL GENDER MULTI–USER SIGN – A/A1.1–PS

ASSISTIVE LISTENING SYSTEM

REFER TO SHEET G201, DETAIL BOX 3 – NEW CLASSROOM BUILDING 700, UNDER "ASSISTED LISTENING SYSTEM" FOR REQUIRED QUANTITY OF RECEIVERS/HEARING–AIDS.

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE	2880 SQ FT
OCCUPANT NET PER TABLE 1004.5:	20
MAXIMUM OCCUPANTS	144

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 18/R0.0 THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:

   OPTION #1: USE A RAMP CONFIGURATION THAT IS AWAY FROM THE BUILDING, RAMP HANDRAIL 1 ½" MIN. CLR. FROM BUILDING LINE.

   OPTION #2: THE WINDOW SILL HEIGHT NEEDS TO BE ELEVATED OR LOCATED IN A MANNER TO ACCOMMODATE THE CODE COMPLIANCE ILLUSTRATION MENTIONED ON 18/R0.0. EXAMPLE USE AN 8x3 WINDOW AND SMALLER IN LIEU OF 8x4 WINDOW.
3. WHEN RAMPS AND LANDINGS ARE USED, DOWNSPOUT DRAINAGE MUST DIVERT AWAY FROM CLEAR LANDING SPACE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

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ATWATER, CA 95301
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLOOR PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
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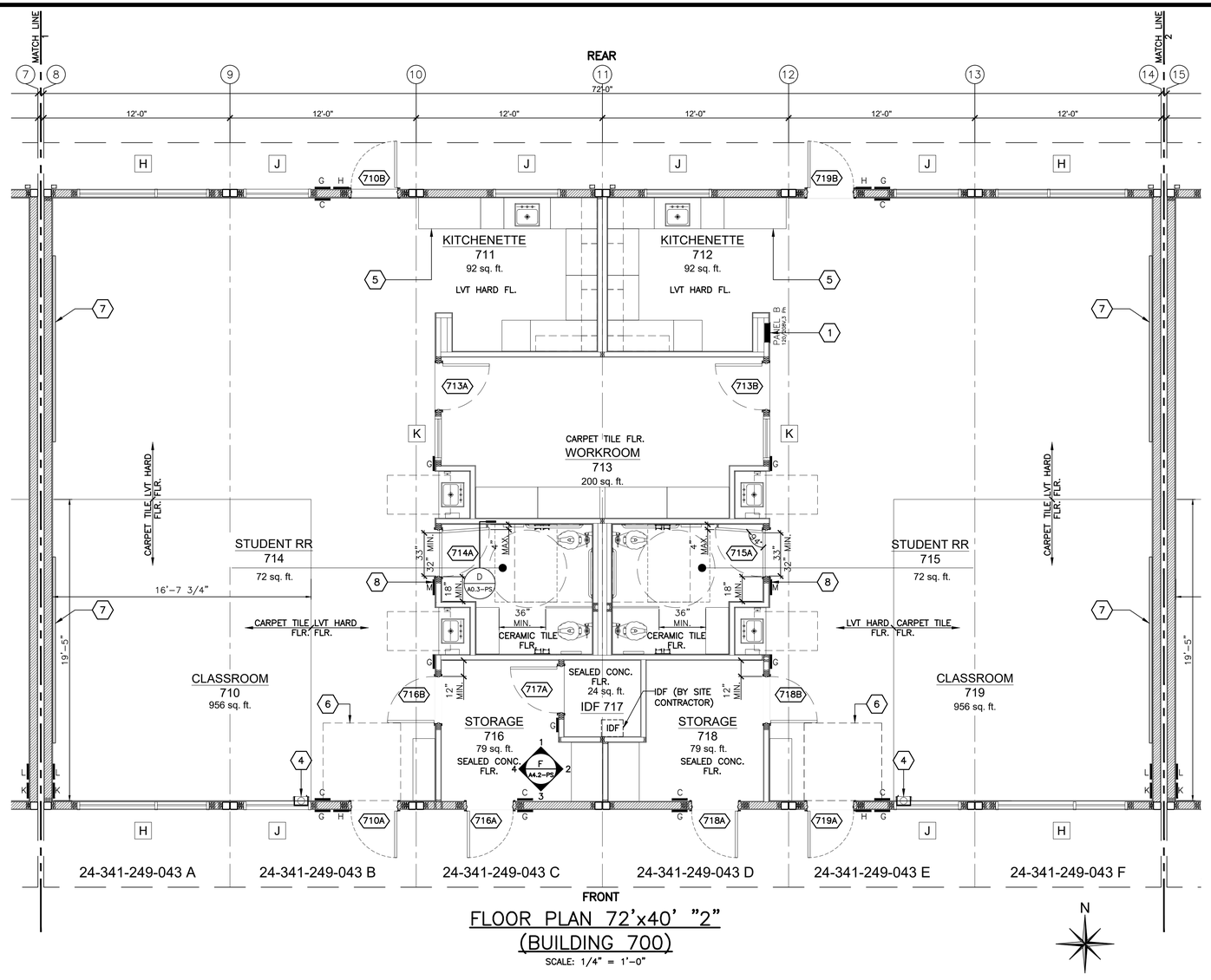
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

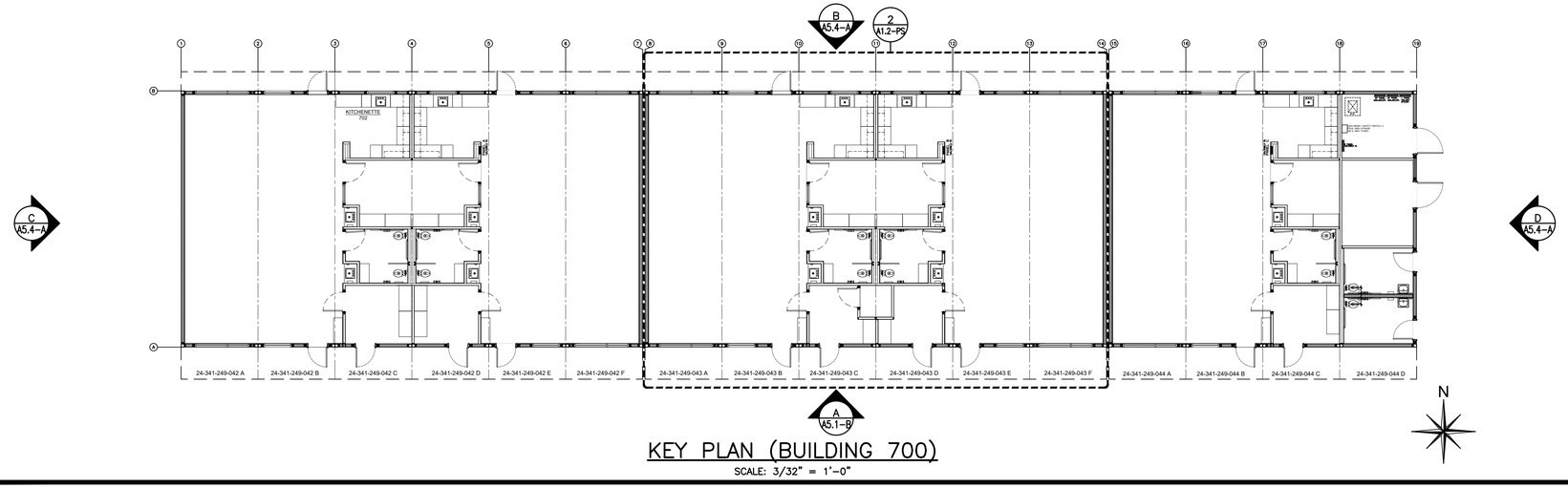
SHEET NUMBER

A1.1-PS



FLOOR PLAN 72'x40' "2" (BUILDING 700)

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



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
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7. MARKER BOARD(S) 12'–0" x 4'–0"
8. "ALL GENDER MULTI–USER" RESTROOM SIGNAGE PER DETAIL A/A1.1–PS

INSULATION VALUES

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ROOF = R–19 BATT
FLOOR = CONC, NO INSULATION

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M = ALL GENDER MULTI–USER SIGN – A/A1.1–PS

ASSISTIVE LISTENING SYSTEM

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OCCUPANT LOAD FORMULA

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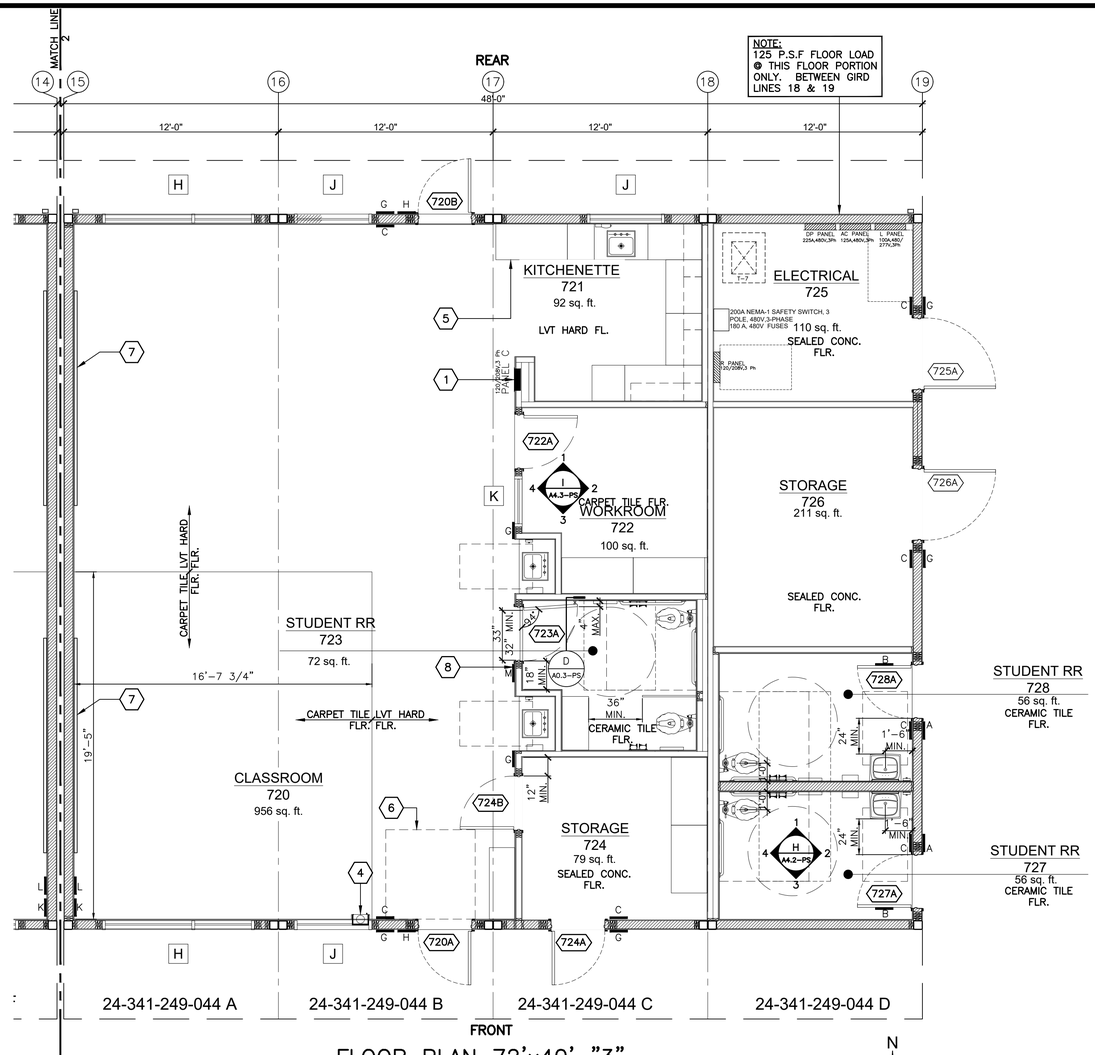
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

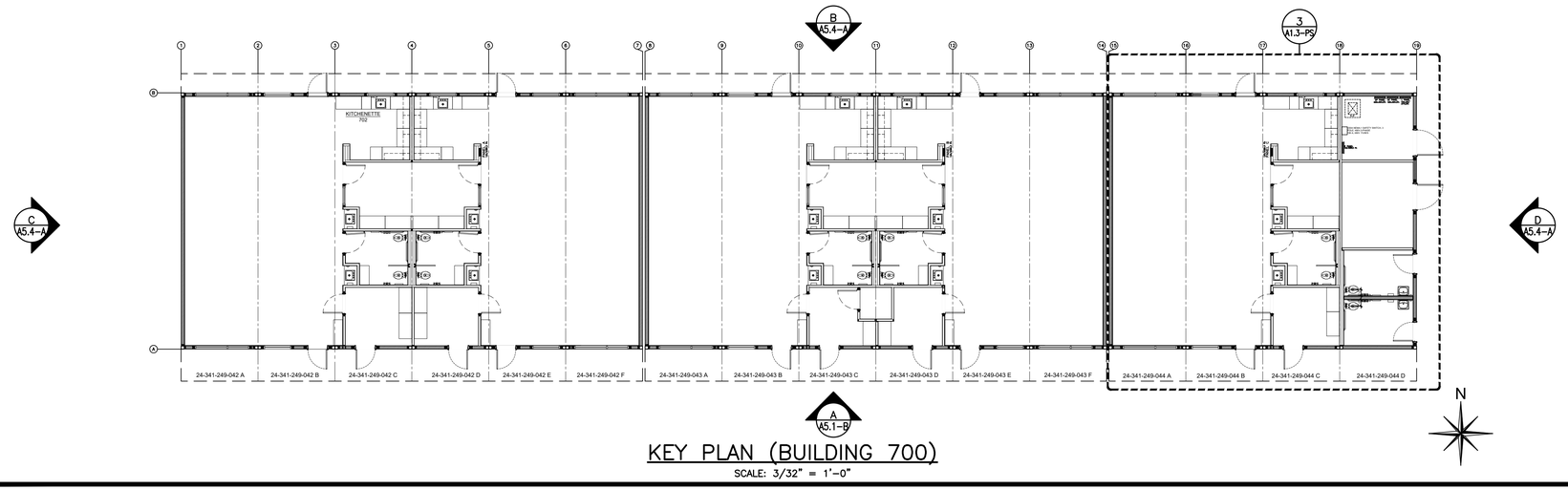
SHEET NUMBER

A1.2-PS



FLOOR PLAN 72'x40' "3" (BUILDING 700)

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



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
2. NOT USED
3. UPPER CABINETS
4. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2–A:10–B:C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP. SEE #4 OR #10/A8.1 FOR BLOCK–OUT (PLACED BELOW HIGH WINDOW SEE INTERIOR ELEVATIONS)
5. BASE CABINETS
6. PRIMARY ENTRANCES SHALL REQUIRE A MIN 48" OVERHANG OR AWNING OR RECESSED AREA OR OTHER APPROPRIATE METHOD INCLUDING A 60" X 60" MIN FLOOR AREA USING VCT OR SHEET VINYL WHEN USING CARPET FLOORING PER CALGREEN SECTION 5.407.2.2.1
7. MARKER BOARD(S) 12'–0" x 4'–0"
8. "ALL GENDER MULTI–USER" RESTROOM SIGNAGE PER DETAIL A/A1.1–PS

INSULATION VALUES

WALLS = R–19

ROOF = R–19 BATT

FLOOR = CONC, NO INSULATION

SIGNAGE LEGEND

A. = RESTROOM WALL SIGN – #1A/A0.4

B. = RESTROOM DOOR SIGN – #1B/A0.4

C. = EXIT TACTILE SIGN – # C/A0.4

E. = NOT USED

G. = ID SIGN – # G/A0.4

H. = ID SIGN WITH ISA IDENTIFICATION – # H/A0.4

I. = FLOOR LIVE LOAD

J. = NOT USED

K = OCCUPANT LOAD – # K/A0.4

L = ASSISTIVE LISTENING – L/A0.4

M = ALL GENDER MULTI–USER SIGN – A/A1.1–PS

ASSISTIVE LISTENING SYSTEM

REFER TO SHEET G201, DETAIL BOX 3 – NEW CLASSROOM BUILDING 700, UNDER "ASSISTED LISTENING SYSTEM" FOR REQUIRED QUANTITY OF RECEIVERS/HEARING–AIDS.

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE	1920 SQ FT
OCCUPANT NET PER TABLE 1004.5:	20
MAXIMUM OCCUPANTS	96

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 18/R0.0 THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:

   OPTION #1: USE A RAMP CONFIGURATION THAT IS AWAY FROM THE BUILDING, RAMP HANDRAIL 1 ½" MIN. CLR. FROM BUILDING LINE.

   OPTION #2: THE WINDOW SILL HEIGHT NEEDS TO BE ELEVATED OR LOCATED IN A MANNER TO ACCOMMODATE THE CODE COMPLIANCE ILLUSTRATION MENTIONED ON 18/R0.0. EXAMPLE USE AN 8x3 WINDOW AND SMALLER IN LIEU OF 8x4 WINDOW.
3. WHEN RAMPS AND LANDINGS ARE USED, DOWNSPOUT DRAINAGE MUST DIVERT AWAY FROM CLEAR LANDING SPACE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676–8029
FAX: (209) 676–8067
WEBSITE: WWW.GDVI.NET

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLOOR PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER No. S 4497 EXP. 12/31/26 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

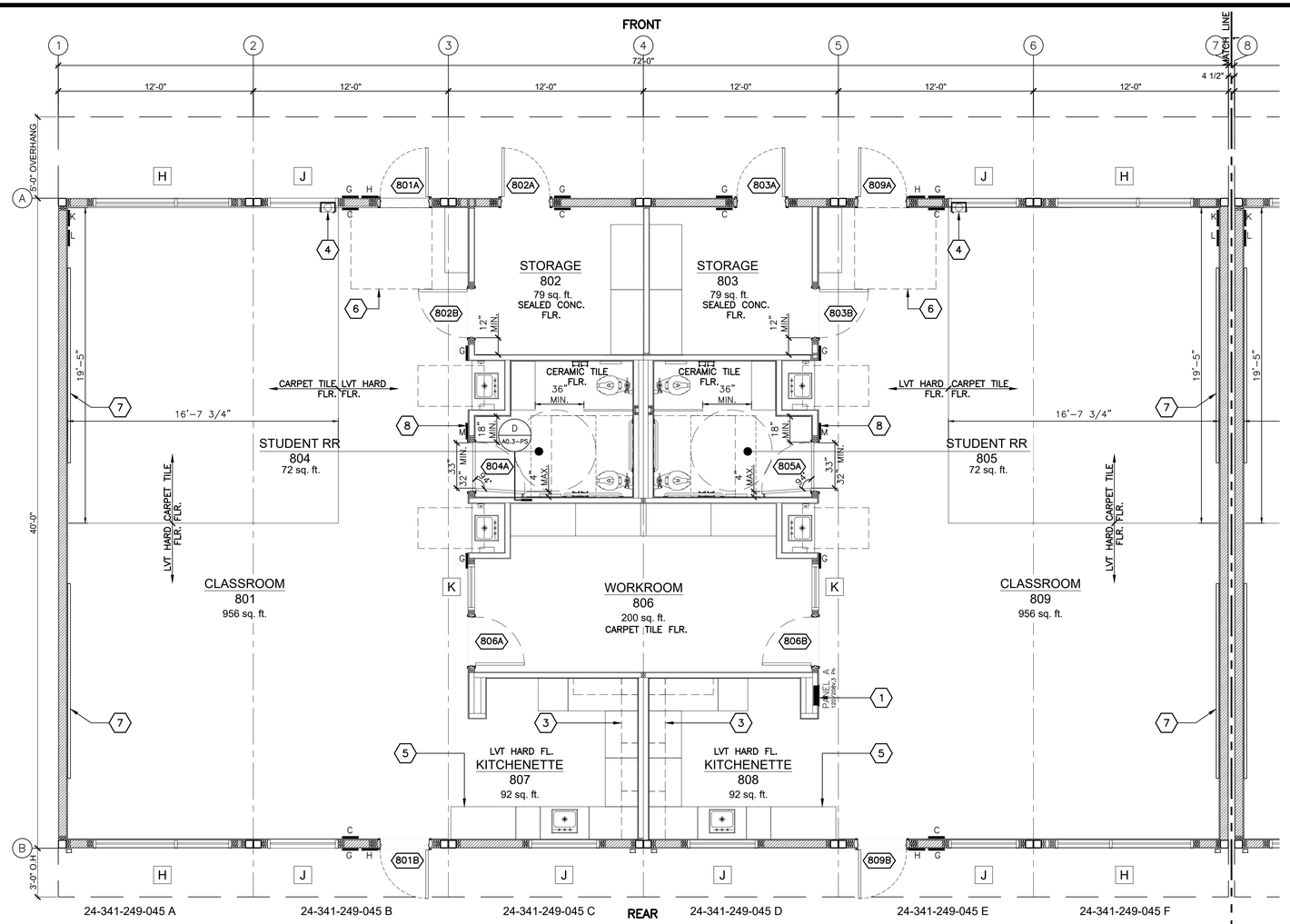
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

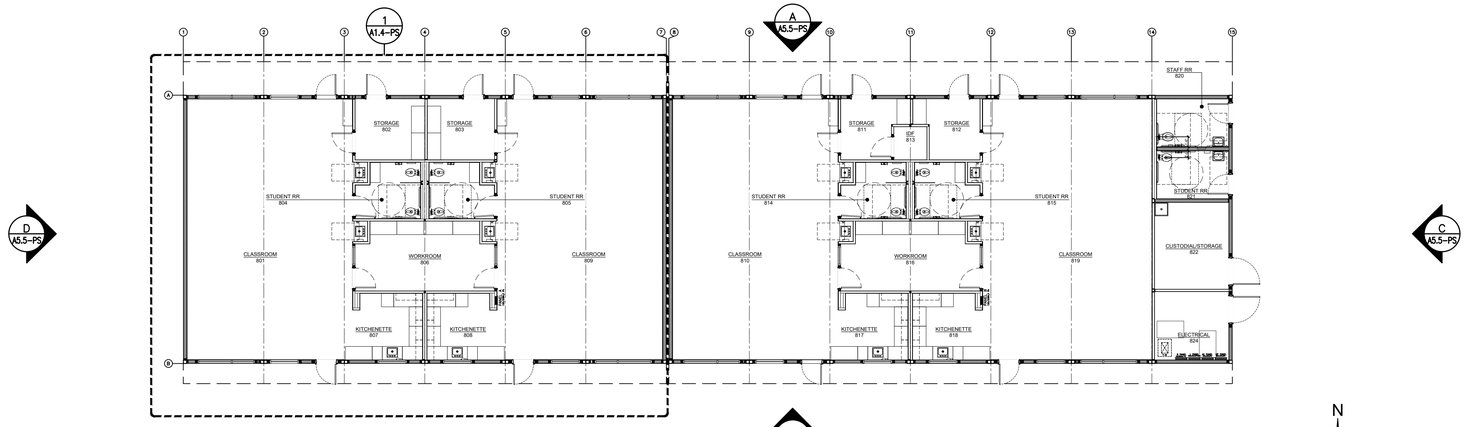
SHEET NUMBER

A1.3-PS



FLOOR PLAN 72'x40' "1" (BUILDING 800)

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

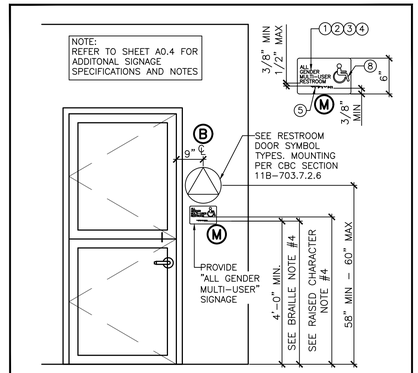


KEY PLAN (BUILDING 800)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
2. NOT USED
3. UPPER CABINETS
4. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2–A:10–B:C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP. SEE #4 OR #10/A8.1 FOR BLOCK–OUT (PLACED BELOW HIGH WINDOW SEE INTERIOR ELEVATIONS)
5. BASE CABINETS
6. PRIMARY ENTRANCES SHALL REQUIRE A MIN 48" OVERHANG OR AWNING OR RECESSED AREA OR OTHER APPROPRIATE METHOD INCLUDING A 60" X 60" MIN FLOOR AREA USING VCT OR SHEET VINYL WHEN USING CARPET FLOORING PER CALGREEN SECTION 5.407.2.2.1
7. MARKER BOARD(S) 12'–0" x 4'–0"
8. "ALL GENDER MULTI–USER" RESTROOM SIGNAGE PER DETAIL A/A1.4–PS



DUTCH DOOR ROOM SIGNAGE

SCALE: 1/2"=1'–0"

A

INSULATION VALUES

WALLS = R–19

ROOF = R–19 BATT

FLOOR = CONC, NO INSULATION

SIGNAGE LEGEND

A. = RESTROOM WALL SIGN – #1A/A0.4

B. = RESTROOM DOOR SIGN – #1B/A0.4

C. = EXIT TACTILE SIGN – # C/A0.4

E. = NOT USED

G. = ID SIGN – # G/A0.4

H. = ID SIGN WITH ISA IDENTIFICATION – # H/A0.4

I. = FLOOR LIVE LOAD

J. = NOT USED

K = OCCUPANT LOAD – # K/A0.4

L = ASSISTIVE LISTENING – L/A0.4

M = ALL GENDER MULTI–USER SIGN – A/A1.1–PS

ASSISTIVE LISTENING SYSTEM

REFER TO SHEET G201, DETAIL BOX 16 – NEW CLASSROOM BUILDING 800, UNDER "ASSISTED LISTENING SYSTEM" FOR REQUIRED QUANTITY OF RECEIVERS/HEARING–AIDS.

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE	2880 SQ FT
OCCUPANT NET PER TABLE 1004.5:	20
MAXIMUM OCCUPANTS	144

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 18/R0.0 THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:

   OPTION #1: USE A RAMP CONFIGURATION THAT IS AWAY FROM THE BUILDING, RAMP HANDRAIL 1 ½" MIN. CLR. FROM BUILDING LINE.

   OPTION #2: THE WINDOW SILL HEIGHT NEEDS TO BE ELEVATED OR LOCATED IN A MANNER TO ACCOMMODATE THE CODE COMPLIANCE ILLUSTRATION MENTIONED ON 18/R0.0. EXAMPLE USE AN 8x3 WINDOW AND SMALLER IN LIEU OF 8x4 WINDOW.
3. WHEN RAMPS AND LANDINGS ARE USED, DOWNSPOUT DRAINAGE MUST DIVERT AWAY FROM CLEAR LANDING SPACE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLOOR PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

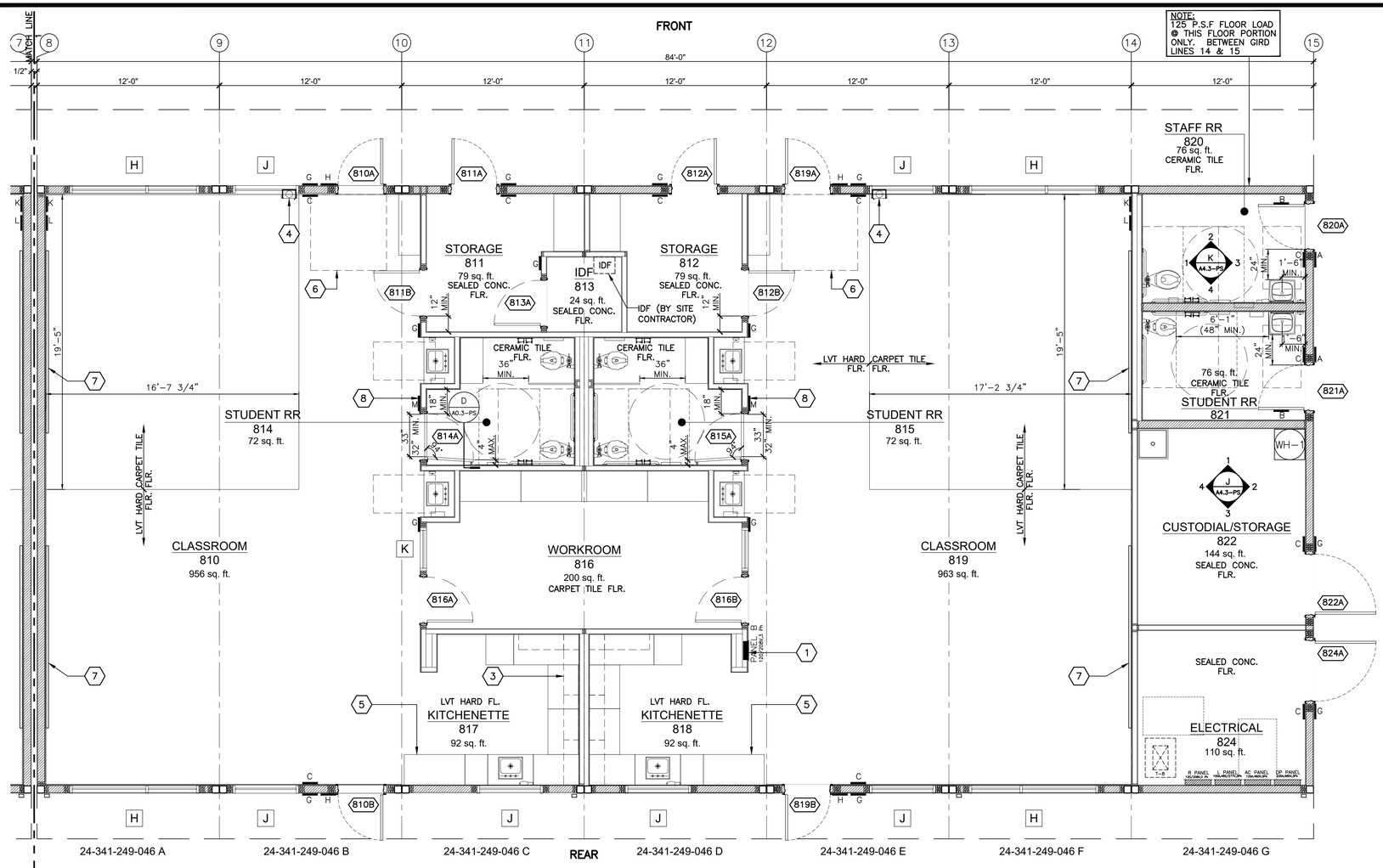
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

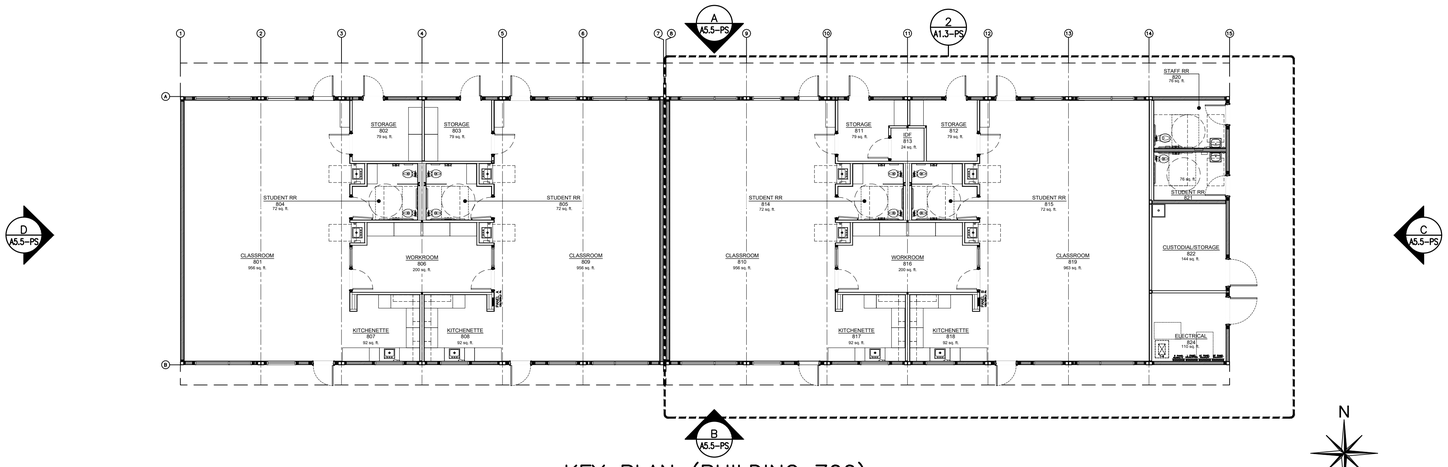
SHEET NUMBER

A1.4-PS



FLOOR PLAN 72'x40' "2"
(BUILDING 800)

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



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
2. NOT USED
3. UPPER CABINETS
4. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2–A:10–B:C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP. SEE #4 OR #10/A8.1 FOR BLOCK–OUT (PLACED BELOW HIGH WINDOW SEE INTERIOR ELEVATIONS)
5. BASE CABINETS
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7. MARKER BOARD(S) 12'–0" x 4'–0"
8. "ALL GENDER MULTI–USER" RESTROOM SIGNAGE PER DETAIL A/A1.4–PS

INSULATION VALUES

WALLS = R–19

ROOF = R–19 BATT

FLOOR = CONC, NO INSULATION

SIGNAGE LEGEND

- A. = RESTROOM WALL SIGN – #1A/A0.4
- B. = RESTROOM DOOR SIGN – #1B/A0.4
- C. = EXIT TACTILE SIGN – # C/A0.4
- E. = NOT USED
- G. = ID SIGN – # G/A0.4
- H. = ID SIGN WITH ISA IDENTIFICATION – # H/A0.4
- I. = FLOOR LIVE LOAD
- J. = NOT USED
- K = OCCUPANT LOAD – # K/A0.4
- L = ASSISTIVE LISTENING – L/A0.4
- M = ALL GENDER MULTI–USER SIGN – A/A1.1–PS

ASSISTIVE LISTENING SYSTEM

REFER TO SHEET G201, DETAIL BOX 16 – NEW CLASSROOM BUILDING 800, UNDER "ASSISTED LISTENING SYSTEM" FOR REQUIRED QUANTITY OF RECEIVERS/HEARING–AIDS.

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE	3360 SQ FT
OCCUPANT NET PER TABLE 1004.5:	20
MAXIMUM OCCUPANTS	168

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 18/R0.0 THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:

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3. WHEN RAMPS AND LANDINGS ARE USED, DOWNSPOUT DRAINAGE MUST DIVERT AWAY FROM CLEAR LANDING SPACE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLOOR PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED STRUCTURAL ENGINEER No. S 6477 EXP. 12/31/26 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS	
1	-
2	-
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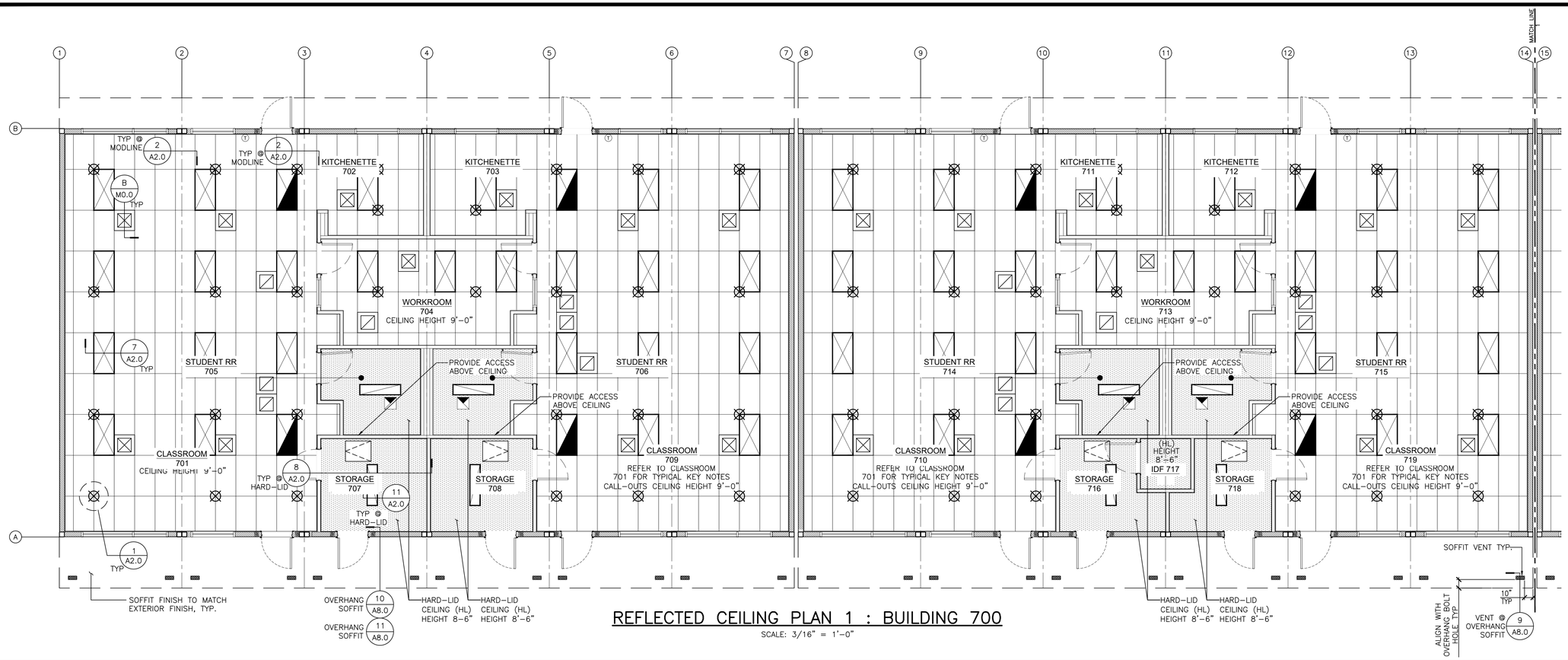
4	-
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

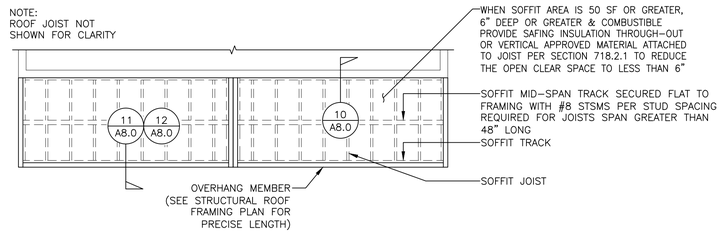
SHEET NUMBER

A1.5-PS

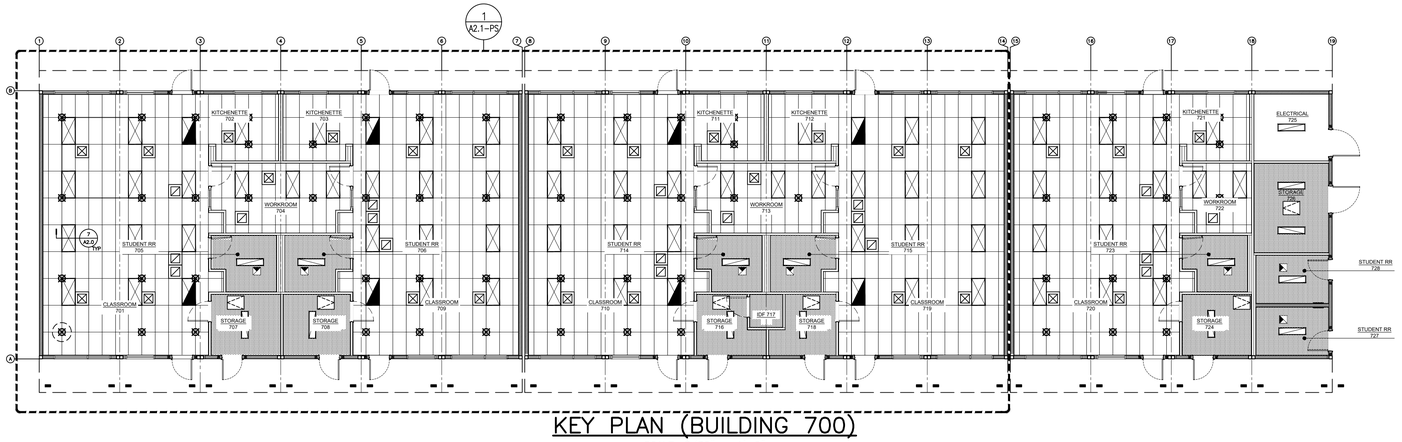


REFLECTED CEILING PLAN 1 : BUILDING 700

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



ENCLOSE OVERHANG SOFFIT FRAMING



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

LEGEND

- SUPPLY AIR DIFFUSERS
- RETURN AIR REGISTER
- 2'x4' L.E.D DROP-IN FIXTURE (SEE ELECTRICAL PLAN)
- 2'x4' L.E.D SURFACE MOUNT FIXTURE (SEE ELECTRICAL PLAN)
- 4-WAY SPLAY WIRE SYSTEM
- T-GRID CEILING (48" x 24")
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED (SEE SHEET 3/A2.0 OR 20/A2.0)
- INDICATES MAIN RUNNER
- LOCATION OF SOFFIT VENT FOR WOOD SIDING APPLICATION SHOWN WHEN ENCLOSED SOFFIT OPTION USED. STUCCO APPLICATION NOT SHOWN FOR CLARITY. SEE #9/A8.0 OR #9/A8.3
- THERMOSTAT
- EXHAUST FAN THRU ROOF
- 24"x30" ACCESS HATCH

FOR NOTES SEE SHEET A2.0

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

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Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

REFLECTED CEILING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
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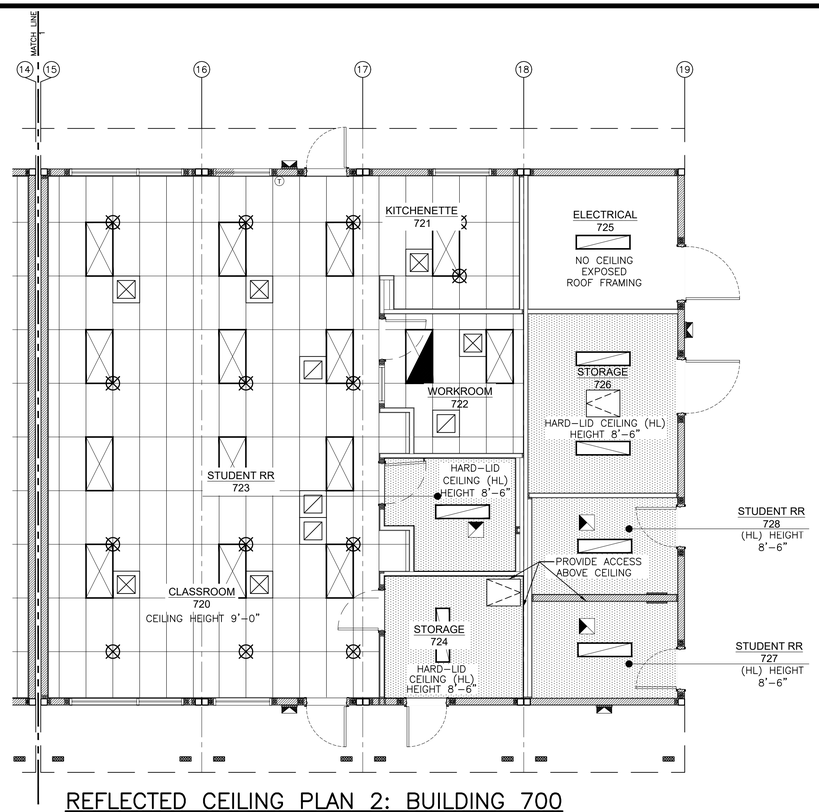
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

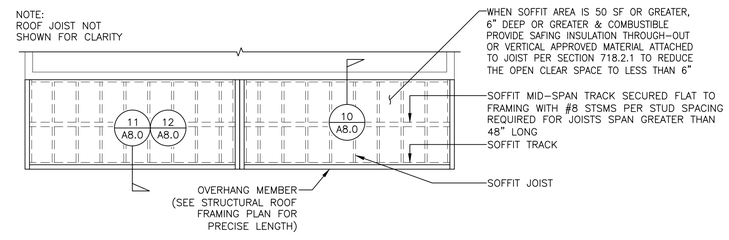
SHEET NUMBER

A2.1-PS

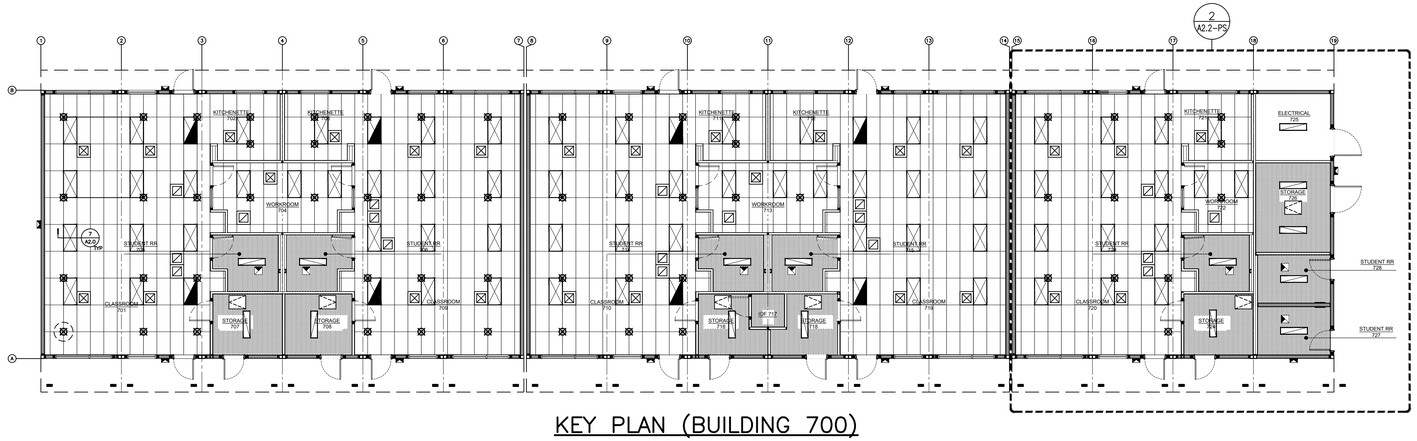


REFLECTED CEILING PLAN 2: BUILDING 700

SCALE: 3/16" = 1'–0"



ENCLOSE OVERHANG SOFFIT FRAMING



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'–0"

LEGEND

- SUPPLY AIR DIFFUSERS
- RETURN AIR REGISTER
- 2'x4' L.E.D DROP–IN FIXTURE (SEE ELECTRICAL PLAN)
- 2'x4' L.E.D SURFACE MOUNT FIXTURE (SEE ELECTRICAL PLAN)
- 4–WAY SPLAY WIRE SYSTEM
- T–GRID CEILING (48" × 24")
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED (SEE SHEET 3/A2.0 OR 20/A2.0)
- INDICATES MAIN RUNNER
- LOCATION OF SOFFIT VENT FOR WOOD SIDING APPLICATION SHOWN WHEN ENCLOSED SOFFIT OPTION USED. STUCCO APPLICATION NOT SHOWN FOR CLARITY. SEE #9/A8.0 OR #9/A8.3
- THERMOSTAT
- EXHAUST FAN THRU ROOF
- 24"x30" ACCESS HATCH

FOR NOTES SEE SHEET A2.0

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SOUTHERN CALIFORNIA DIVISON
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

REFLECTED CEILING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER No. S 6499 STRUCTURAL STATE OF CALIFORNIA EXP. 12/31/26

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

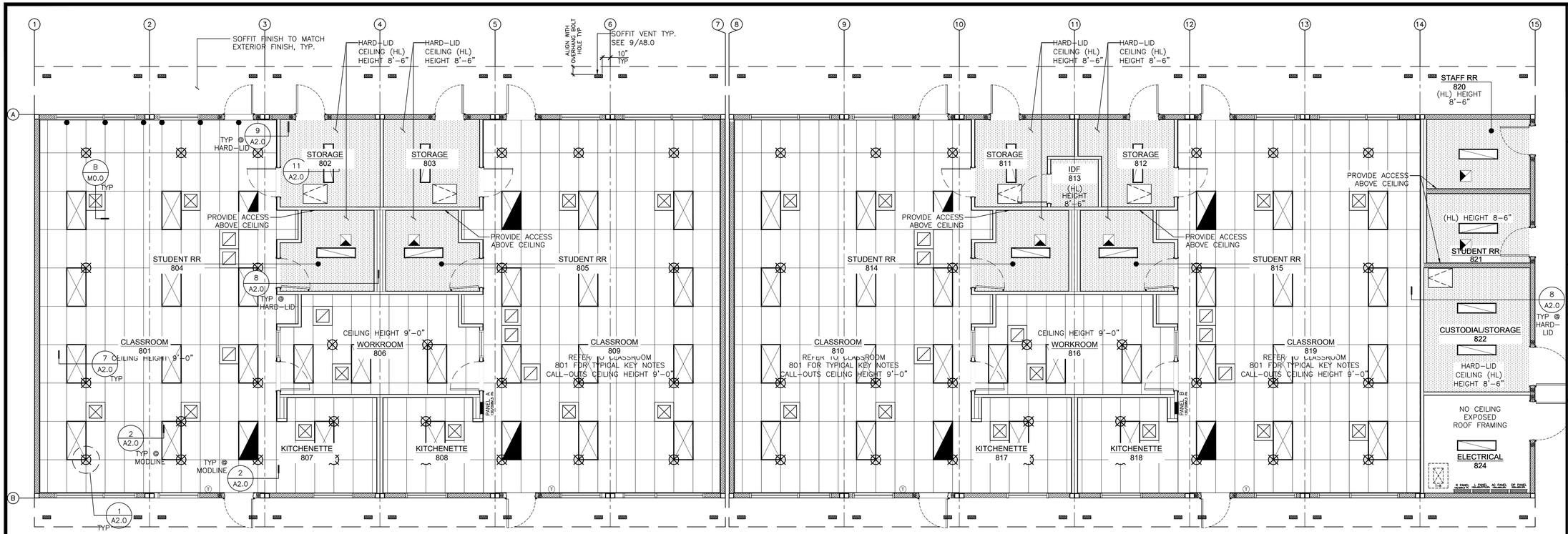
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

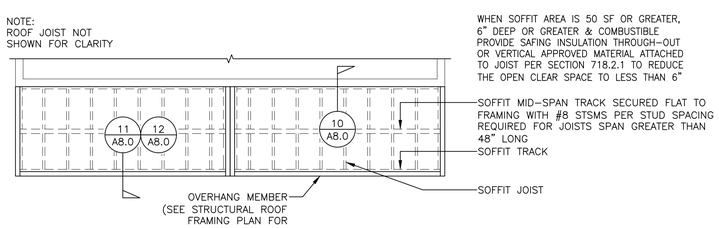
SHEET NUMBER

A2.2-PS



REFLECTED CEILING PLAN : BUILDING 800

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



ENCLOSE OVERHANG SOFFIT FRAMING

LEGEND

- SUPPLY AIR DIFFUSERS
- RETURN AIR REGISTER
- 2'x4' L.E.D DROP-IN FIXTURE (SEE ELECTRICAL PLAN)
- 2'x4' L.E.D SURFACE MOUNT FIXTURE (SEE ELECTRICAL PLAN)
- 4-WAY SPLAY WIRE SYSTEM
- 48" / 24" — T-GRID CEILING
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED (SEE SHEET 3/A2.0 OR 20/A2.0)
- INDICATES MAIN RUNNER
- LOCATION OF SOFFIT VENT FOR WOOD SIDING APPLICATION SHOWN WHEN ENCLOSED SOFFIT OPTION USED. STUCCO APPLICATION NOT SHOWN FOR CLARITY. SEE #9/A8.0 OR #9/A8.3
- (T) THERMOSTAT
- EXHAUST FAN THRU ROOF
- 24"x30" ACCESS HATCH

FOR NOTES SEE SHEET A2.0

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

REFLECTED CEILING PLAN

PRE-CHECK (PC) DOCUMENT
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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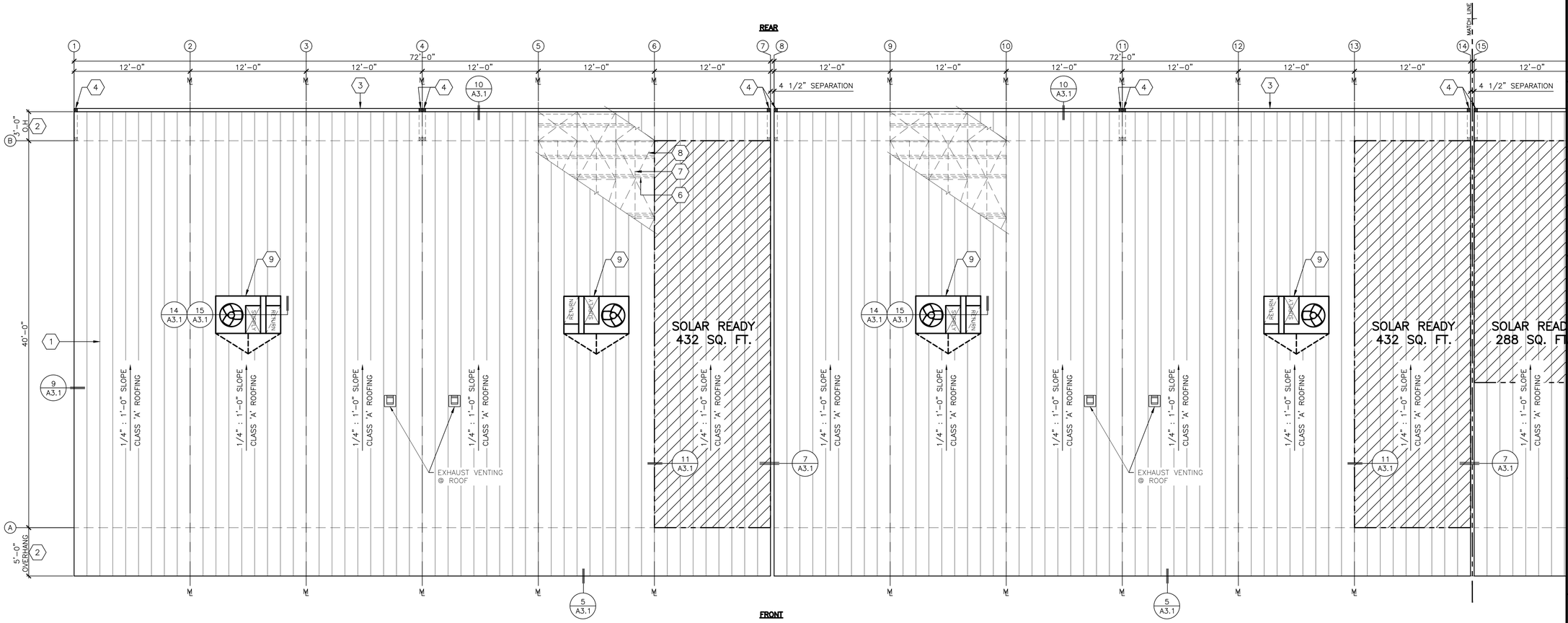
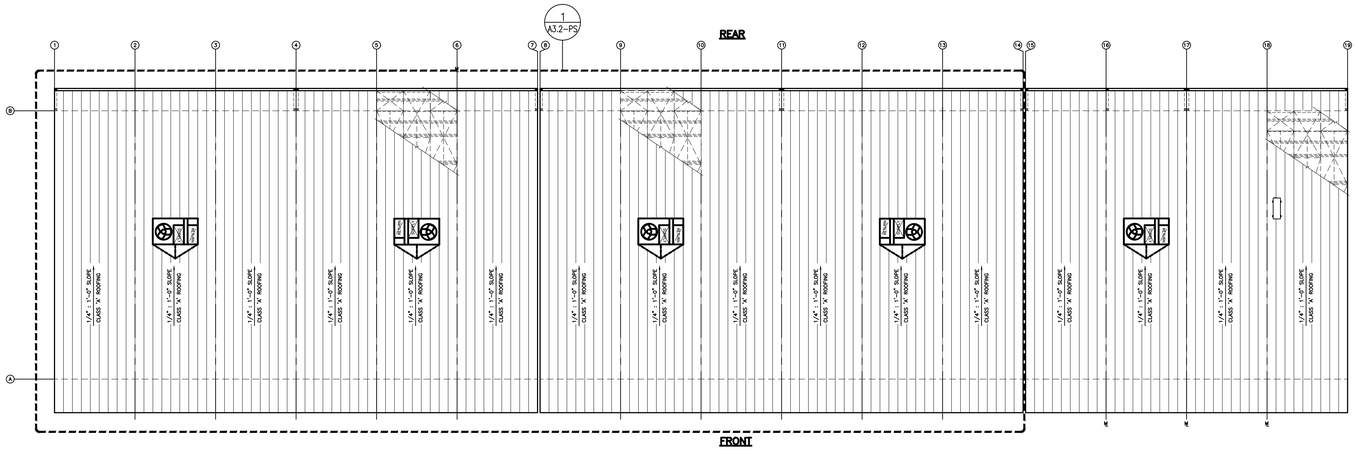


ROOF PLAN – MONO SLOPE PART 1 BUILDING 700

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

(22 GA STANDING SEAM)



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. STEEL ROOF DECK: 22 GA ROLL FORMED STANDING SEAM SEE DETAIL #1 & 2 SHEET A3.1 FOR INSTALLATION
2. OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLAN FOR PRECISE LENGTH). PRIMARY BLDG ENTRANCES SHALL REQUIRE 48" MIN DOOR PROTECTION. SEE FLOOR PLAN
3. GUTTER (SEE ROOF DETAILS SHEET FOR MORE INFORMATION)
4. DOWNSPOUT SEE DETAIL #17/A8.0 FOR MORE INFORMATION SEE EXTERIOR ELEVATIONS SHEET FOR EXACT LOCATION FOR BUILDINGS GREATER THAN 60'–0", SEE SHEET A0.5
5. NOT USED
6. JOIST (SEE STRUCTURAL ROOF FRAMING PLANS)
7. 16 GA WIRE ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" OC MAX (SEE 19,20/A8.0 OR 19,20/A8.3)
8. PLYWOOD FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLAN)
9. ROOF MOUNT HVAC

GENERAL NOTES

1. BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC 1505.2, CLASS 'A'
2. SEE MECHANICAL PLAN FOR ROOF TOP AC UNIT LOCATIONS. REFER TO #15/A8.0 FOR MOUNTING DETAIL
3. SEE SHEET METAL AND FLASHING DETAILS SHEET A8.2 FOR MORE INFORMATION
4. PROVIDE DRAFTSTOPS AT ATTIC SPACES EXCEEDING 3,000 SF PER CBC SECTION 718.4 (APPLIES TO BUILDINGS EQUIPPED WITH AN OPEN–WEB TRUSS SYSTEM ONLY). SEE #16/A8.1

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
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Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

ROOF PLAN MONO SLOPE–22 GA METAL

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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PROJECT NO.:	00-0000
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SCALE:	AS NOTED
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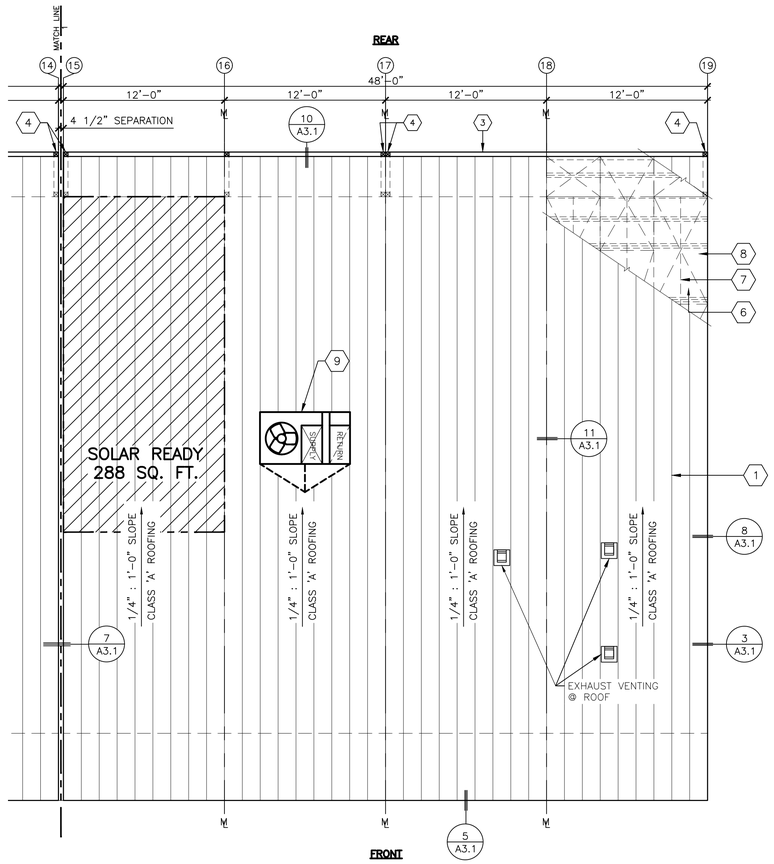
SHEET NUMBER

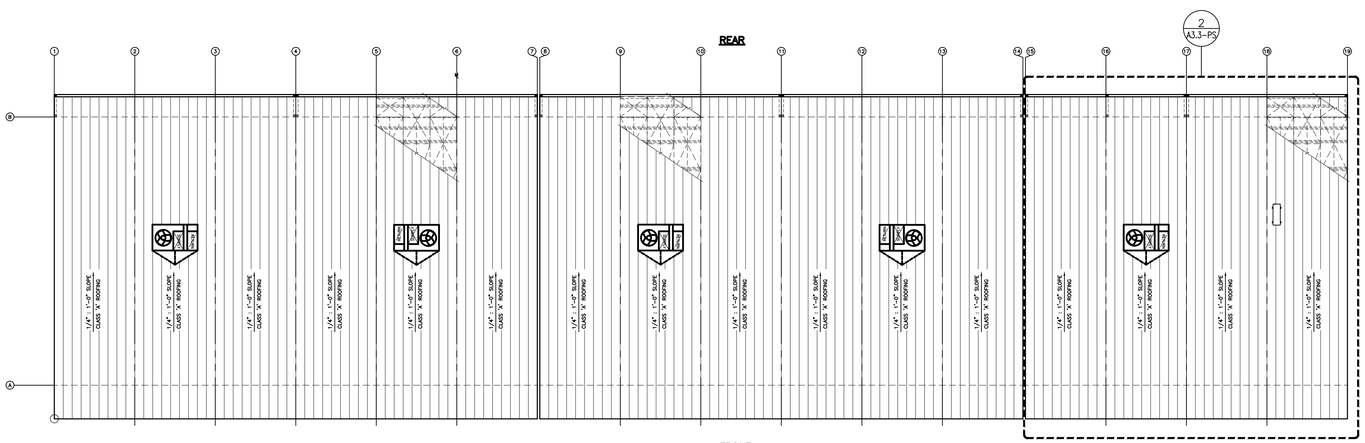
A3.2-PS



ROOF PLAN – MONO SLOPE PART 2 BUILDING 700

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

(22 GA STANDING SEAM)



KEY PLAN (BUILDING 700)

SCALE: 3/32" = 1'-0"

KEY NOTES

1. STEEL ROOF DECK: 22 GA ROLL FORMED STANDING SEAM SEE DETAIL #1 & 2 SHEET A3.1 FOR INSTALLATION
2. OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLAN FOR PRECISE LENGTH). PRIMARY BLDG ENTRANCES SHALL REQUIRE 48" MIN DOOR PROTECTION. SEE FLOOR PLAN
3. GUTTER (SEE ROOF DETAILS SHEET FOR MORE INFORMATION)
4. DOWNSPOUT SEE DETAIL #17/A8.0 FOR MORE INFORMATION SEE EXTERIOR ELEVATIONS SHEET FOR EXACT LOCATION FOR BUILDINGS GREATER THAN 60'-0", SEE SHEET A0.5
5. NOT USED
6. JOIST (SEE STRUCTURAL ROOF FRAMING PLANS)
7. 16 GA WIRE ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" OC MAX (SEE 19,20/A8.0 OR 19,20/A8.3)
8. PLYWOOD FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLAN)
9. ROOF MOUNT HVAC

GENERAL NOTES

1. BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC 1505.2, CLASS 'A'
2. SEE MECHANICAL PLAN FOR ROOF TOP AC UNIT LOCATIONS. REFER TO #15/A8.0 FOR MOUNTING DETAIL
3. SEE SHEET METAL AND FLASHING DETAILS SHEET A8.2 FOR MORE INFORMATION
4. PROVIDE DRAFTSTOPS AT ATTIC SPACES EXCEEDING 3,000 SF PER CBC SECTION 718.4 (APPLIES TO BUILDINGS EQUIPPED WITH AN OPEN-WEB TRUSS SYSTEM ONLY). SEE #16/A8.1

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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

ROOF PLAN MONO SLOPE–22 GA METAL

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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EXP. 12/31/26 STRUCTURAL STATE OF CALIFORNIA

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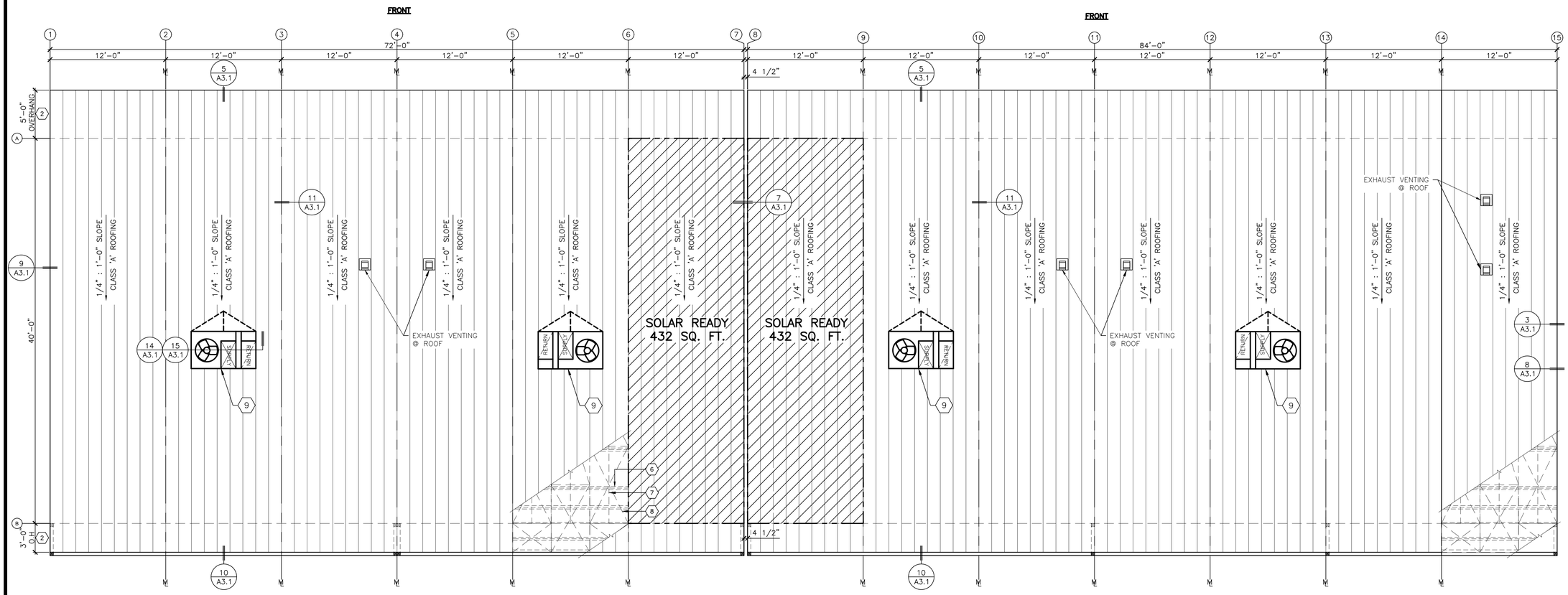
A3.3-PS



ROOF PLAN – MONO SLOPE BUILDING 800

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

(22 GA STANDING SEAM)

KEY NOTES

1. STEEL ROOF DECK: 22 GA ROLL FORMED STANDING SEAM SEE DETAIL #1 & 2 SHEET A3.1 FOR INSTALLATION
2. OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLAN FOR PRECISE LENGTH). PRIMARY BLDG ENTRANCES SHALL REQUIRE 48" MIN DOOR PROTECTION. SEE FLOOR PLAN
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SHEET TITLE:

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PROJECT NO.:	00-0000
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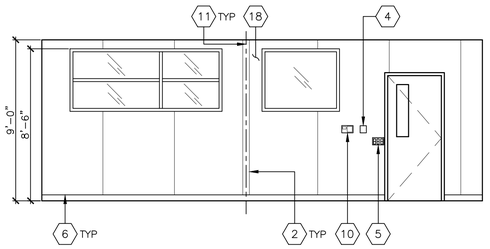
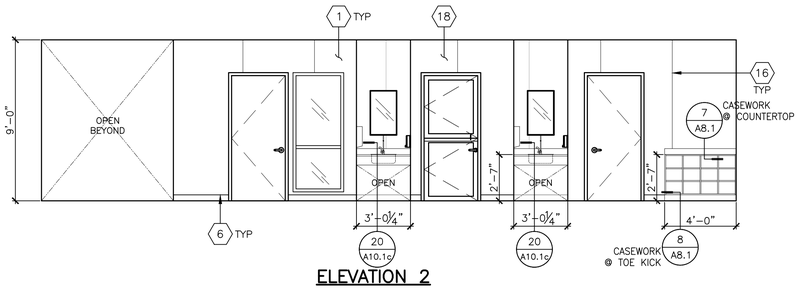
SHEET NUMBER

A3.4-PS



ELEVATION 1



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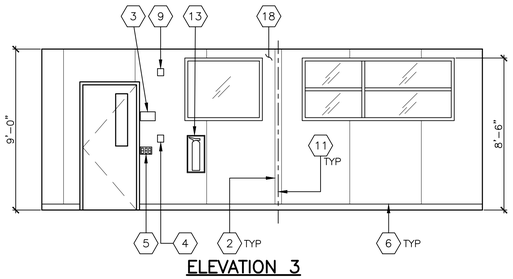

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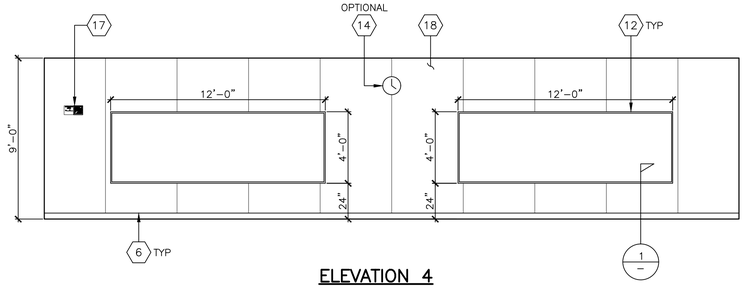

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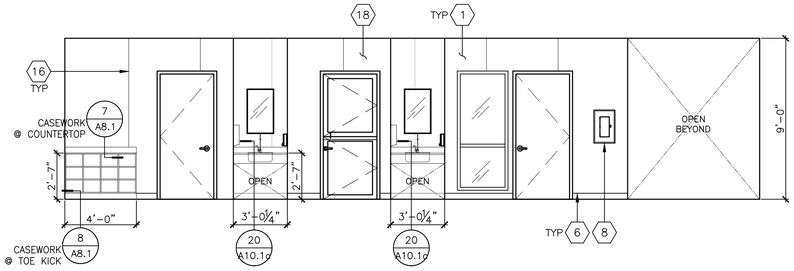
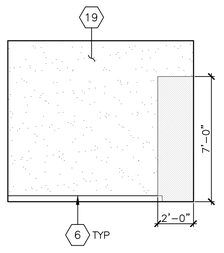


ELEVATION 5

701, 709, 710, 719, 720, 801, 810, 819 – CLASSROOM TEACHING SPACE (TYP.)

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

A



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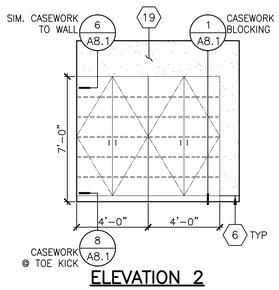
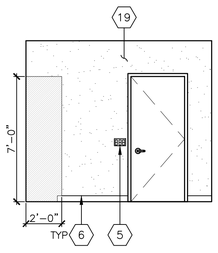


ELEVATION 2



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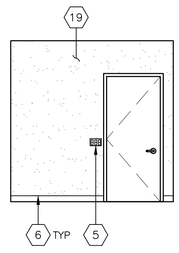
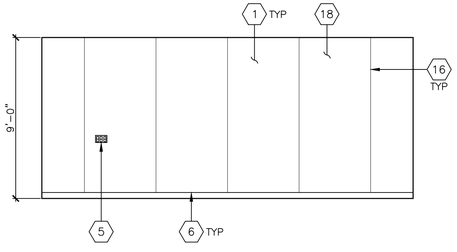


ELEVATION 4

707, 708, 724, 802, 803 STORAGE (TYP.)

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

B



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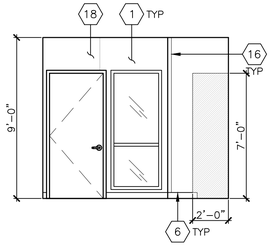

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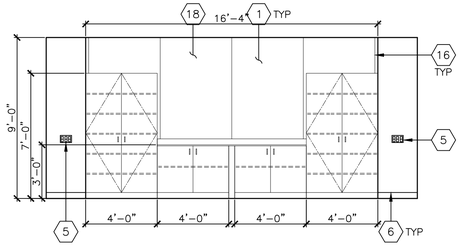

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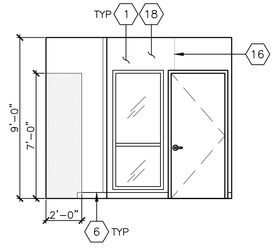
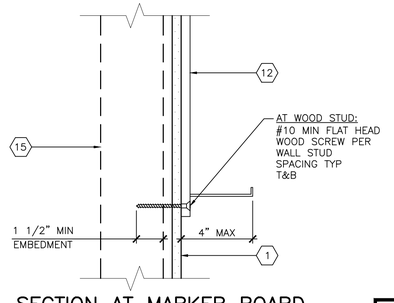


ELEVATION 4

704, 713, 806, 816 TEACHER WORK ROOM (TYP.)

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

C



SECTION AT MARKER BOARD

SCALE: 3" = 1'-0"

1

KEY NOTES

1. TYPICAL INTERIOR FINISH
2. CLOSURE AT MODULAR JOINT
3. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. LIGHT SWITCH
6. TOP SET BASE TYPICAL (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL @ CEILING (REFER TO REFLECTED CEILING)
8. ELECTRICAL PANEL +48" TO HANDLE
9. HORN/STROBE (SEE ELECTRICAL PLAN)
10. THERMOSTAT (SEE MECHANICAL PLAN)
11. MODULAR JOINT
12. 12'-0" x 4'-0" MARKER BOARD, EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET 48" MAX A.F.F. TO F.E. HANDLE.
14. 12" DIA ELECTRIC CLOCK (OPTIONAL) (SEE ELECTRICAL PLAN)
15. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
16. INTERIOR FINISH SEAM
17. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)
18. VINYL COVERED TACKBOARD
19. GYPSUM BOARD

NOTE:
ALL CASEWORK CABINETS SHALL BE LOCKABLE, TYP., U.O.N

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

INTERIOR ELEVATIONS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — No. S-6457 — EXP. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

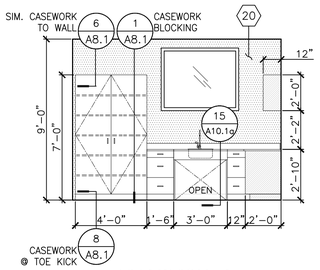
REVISIONS

1 -	
2 -	
3 -	
4 -	

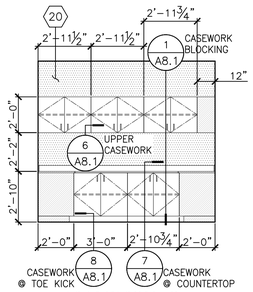
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

A4.1-PS



ELEVATION 1



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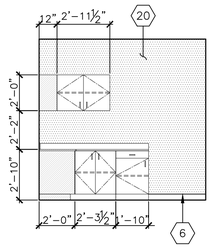

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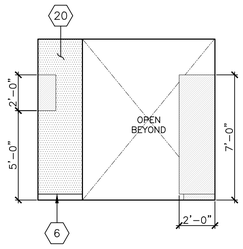
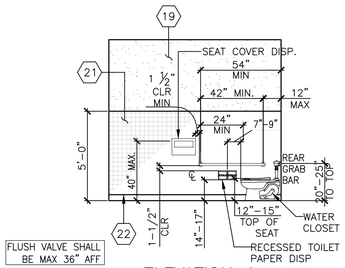


ELEVATION 4

702, 703, 711, 712, 721, 807, 808, 817, 818 – KITCHENETTE (TYP.)

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

D



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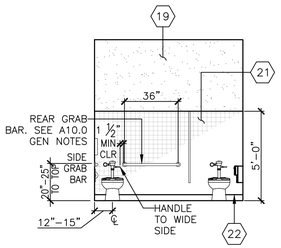

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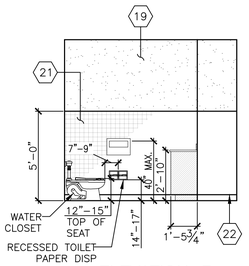

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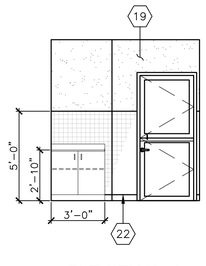


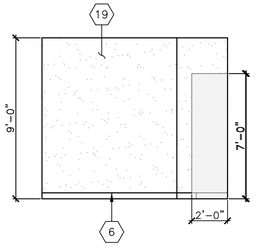
ELEVATION 4

FLOOR MOUNT FLUSH VALVE WATER CLOSET
AGES 5 THROUGH 8

705, 706, 714, 715, 723, 804, 805, 814, 815 – STUDENT RESTROOM (TYP.)

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

E



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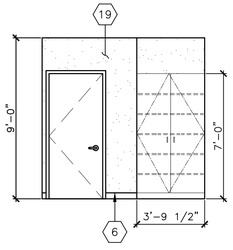

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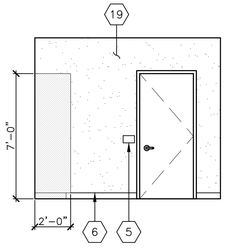

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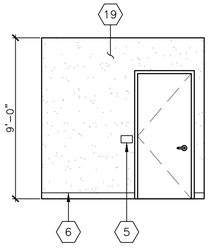
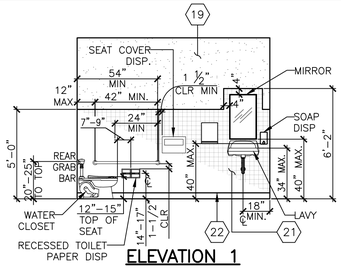


ELEVATION 4

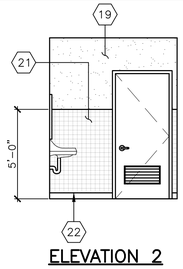
716, 718, 811, 812– STORAGE (TYP.)

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

F



ELEVATION 1



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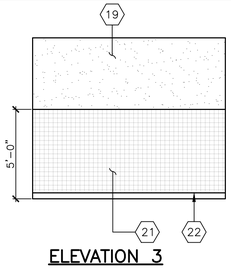
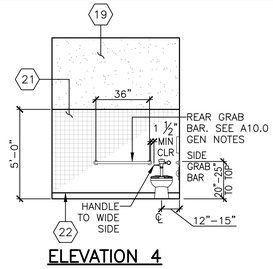


ELEVATION 3



ELEVATION 4

FLOOR MOUNT FLUSH VALVE WATER CLOSET
AGES 5 THROUGH 8

727, 728, 821– SINGLE USE STUDENT RESTROOM (TYP.)

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

H

KEY NOTES

19. GYPSUM BOARD
20. FIBER REINFORCED PANEL – F.R.P
21. CERAMIC TILE
22. CERAMIC TILE BASE

NOTE:
REFER TO SHEET A4.1–PS
FOR ADDITIONAL KEY NOTE CALL–OUTS

NOTE:
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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
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CONTRACTORS LICENSE #837357

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FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

INTERIOR ELEVATIONS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

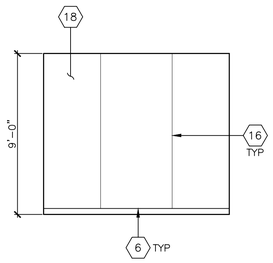
REVISIONS

1	-
2	-
3	-
4	-

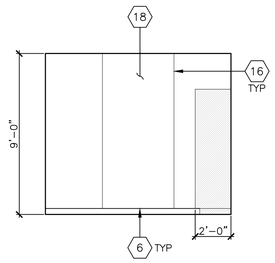
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

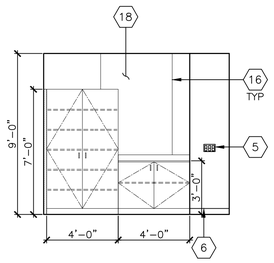
A4.2-PS



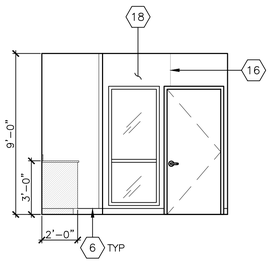
ELEVATION 1



ELEVATION 2



ELEVATION 3

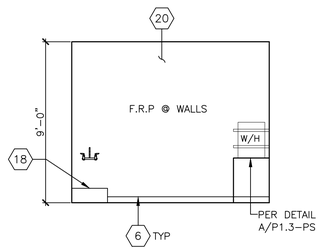


ELEVATION 4

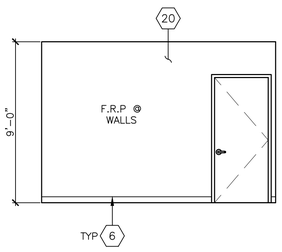
722 – TEACHER WORK ROOM

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

I



ELEVATION 1



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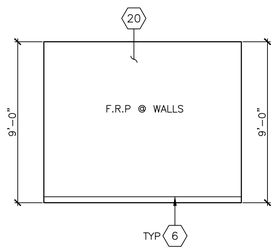
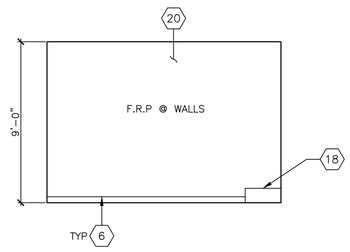


ELEVATION 3

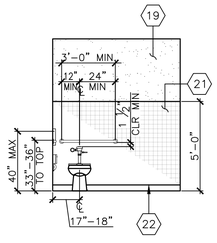


ELEVATION 4

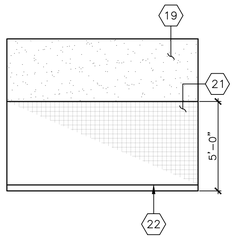
822 – JANITOR ROOM

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

J



ELEVATION 1



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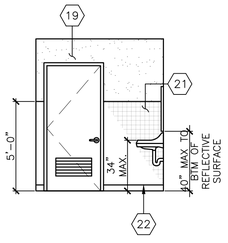

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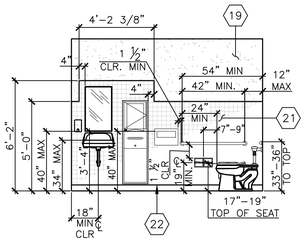
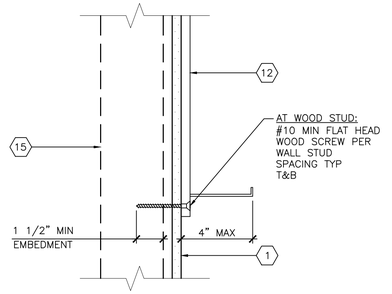


ELEVATION 4

820 – STAFF RESTROOM

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

K



SECTION AT MARKER BOARD

SCALE: 3" = 1'-0"

1

KEY NOTES

19. GYPSUM BOARD
20. FIBER REINFORCED PANEL – F.R.P
21. CERAMIC TILE
22. CERAMIC TILE BASE

NOTE:
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FOR ADDITIONAL KEY NOTE CALL-OUTS

NOTE:
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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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ATWATER, CA 95301
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ARCHITECT OF RECORD

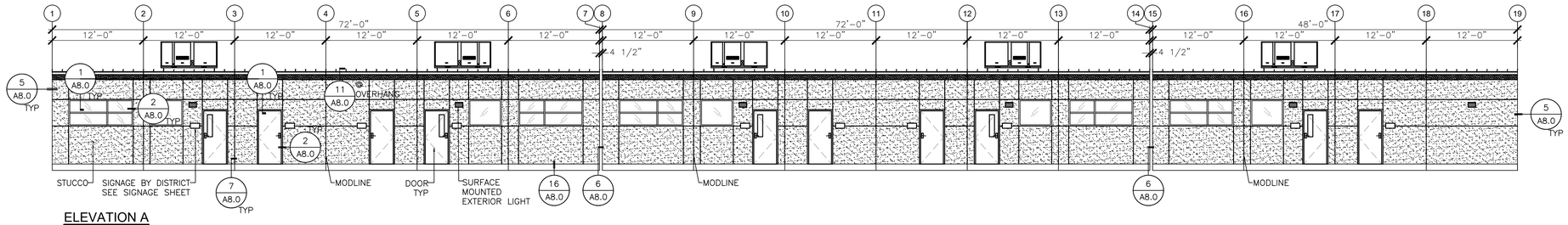
REVISIONS

1	-
2	-
3	-
4	-

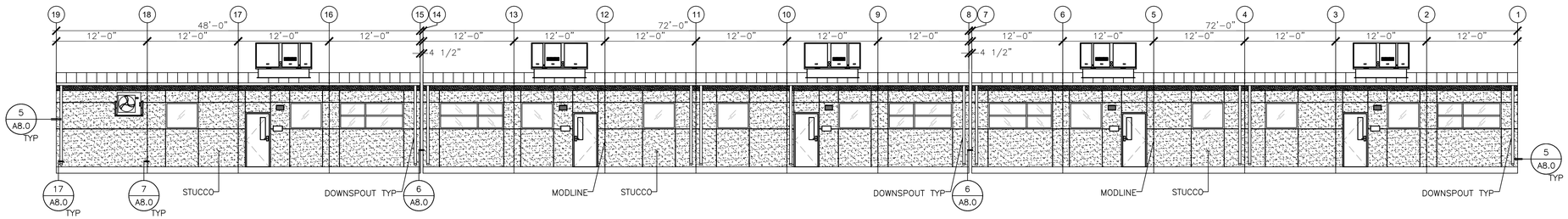
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

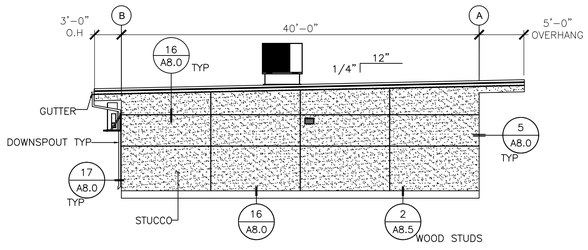
A4.3-PS



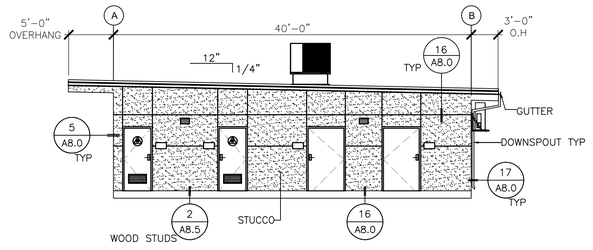
ELEVATION A
BUILDING 700



ELEVATION B
BUILDING 700



ELEVATION C
BUILDING 700



ELEVATION D
BUILDING 700

BUILDING IDENTIFICATION SIGN

1. PER CFC SECTION 505.1, A BUILDING IDENTIFICATION SIGN SHALL BE PLACED ON A NEW OR EXISTING BUILDING. SIGN SHALL BE PLACED AND DESIGNED PER SECTION 505.1 SIGN SHALL BE PROVIDED BY OWNER OR DISTRICT.

2. FOR MODULAR BUILDING IDENTIFICATION TAG, REFER TO SHEET A0.1 UNDER GENERAL DESIGN REQUIREMENTS & #2/A0.4

EXTERIOR ELEVATIONS : BUILDING 700
(MONO SLOPE)
SCALE: 1/8" = 1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
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1860 CHICAGO AVE., SUITE I-7
RIVERSIDE, CA 92507
PHONE: (951) 686-3633
FAX: (951) 686-3666
WEBSITE: WWW.GDVI.NET

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

EXTERIOR ELEVATIONS
STUCCO
MONO SLOPE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

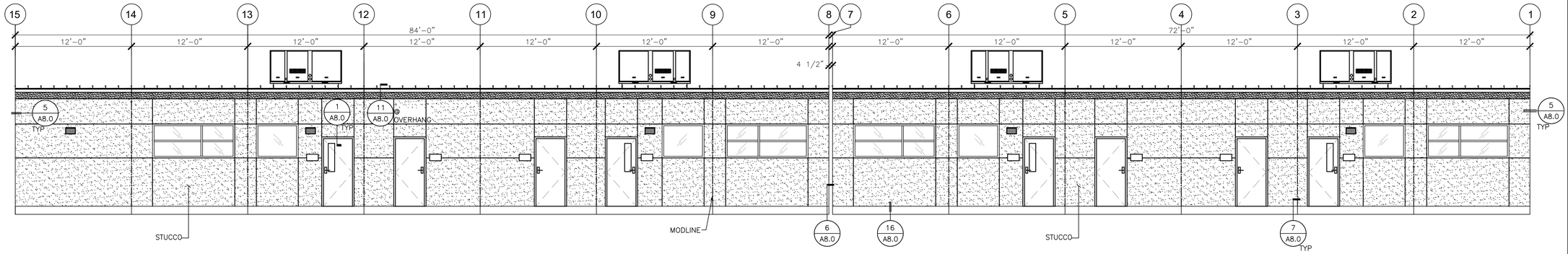
SHEET NUMBER

A5.4-PS

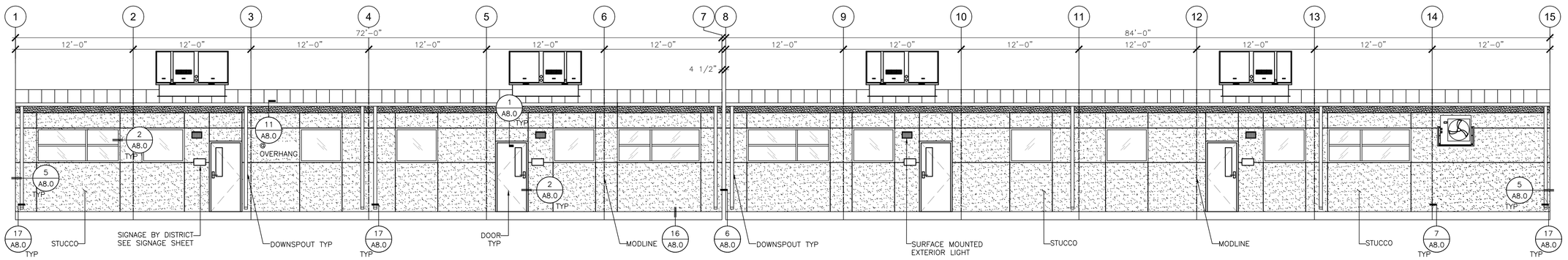
BUILDING IDENTIFICATION SIGN

1. PER CFC SECTION 505.1, A BUILDING IDENTIFICATION SIGN SHALL BE PLACED ON A NEW OR EXISTING BUILDING. SIGN SHALL BE PLACED AND DESIGNED PER SECTION 505.1 SIGN SHALL BE PROVIDED BY OWNER OR DISTRICT.

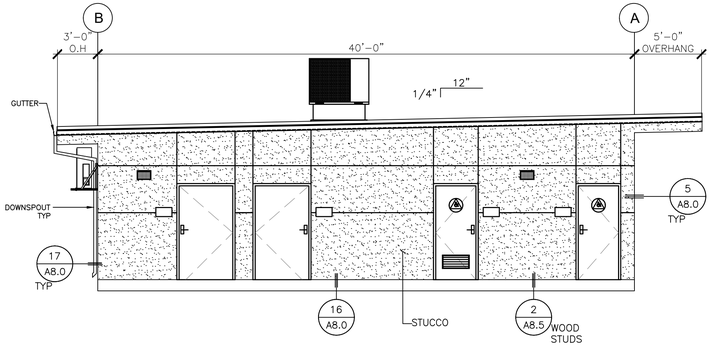
2. FOR MODULAR BUILDING IDENTIFICATION TAG, REFER TO SHEET A0.1 UNDER GENERAL DESIGN REQUIREMENTS & #2/A0.4



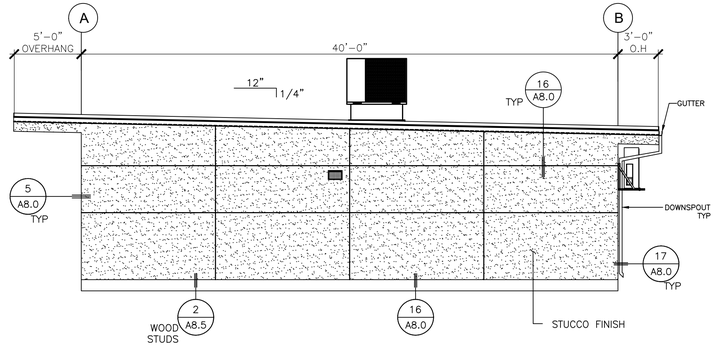
ELEVATION A
BUILDING 800



ELEVATION B
BUILDING 800



ELEVATION C
BUILDING 800



ELEVATION D
BUILDING 800

EXTERIOR ELEVATIONS : BUILDING 800
(MONO SLOPE)
SCALE: 3/16" = 1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

EXTERIOR ELEVATIONS
STUCCO
MONO SLOPE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — OMAR — LIC. S-24371 — EXP. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

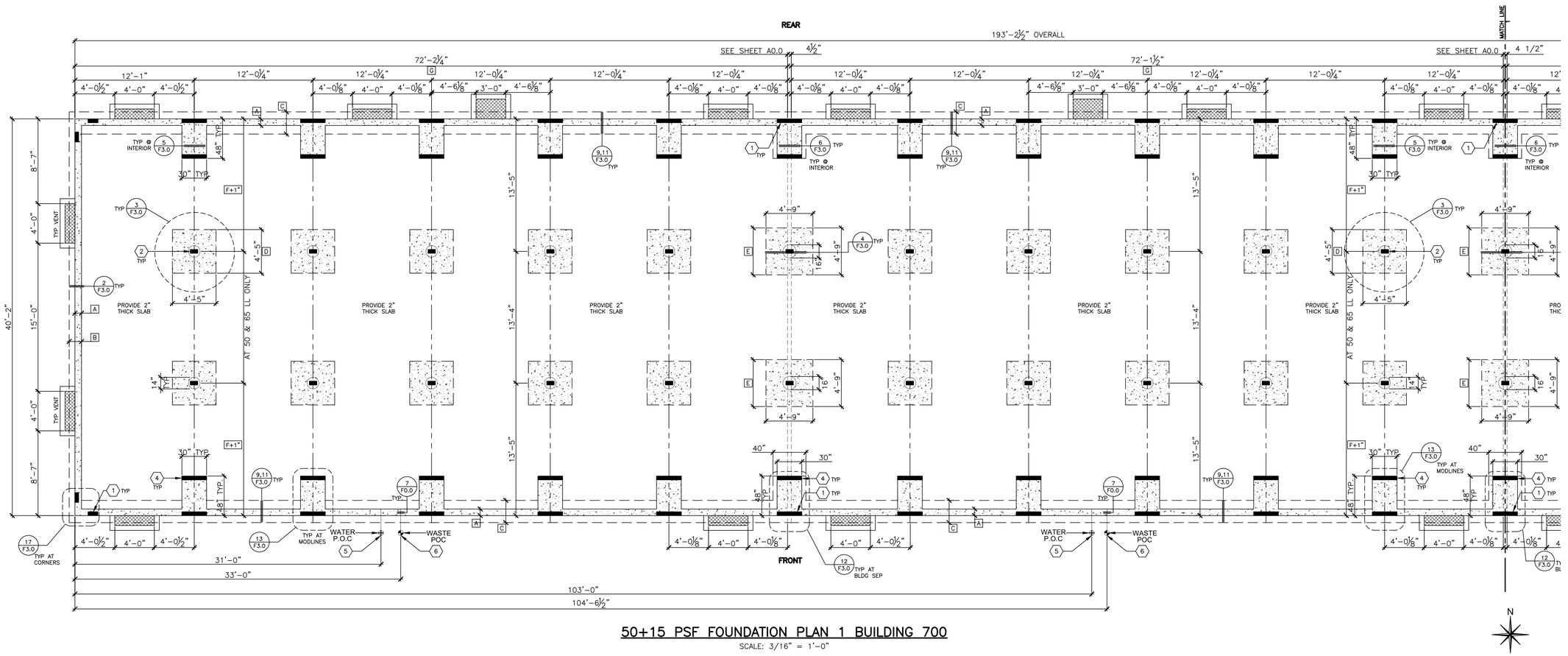
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

A5.5-PS



50+15 PSF FOUNDATION PLAN 1 BUILDING 700

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

NOTE:

THE SCHEDULE BELOW TAKES AN ACCOUNT OF (1) ACCESS VENT AND (3) TYPICAL VENT. THE DESIGN PROFESSIONAL CAN ADD ADDITIONAL VENTS IF NECESSARY.

MIN 2 VENTS REQUIRED FOR CROSS VENTILATION

REQUIRED VENTILATION		
BUILDING SIZE	VENTILATION REQUIRED	MIN # VENTS
72'x40'	19.2 SF	6
ACCESS VENT CAN BE USED IN PLACE OF A TYPICAL VENT AS NECESSARY		

SAMPLE VENTILATION FORMULA

BUILDING SQUARE FOOTAGE: 72' X 40' 2880 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
2880 SF / 150 SF = 19.2 SF "NET" VENTILATION REQUIRED

NUMBER OF ACCESS VENTS TO BE USED: 1
TOTAL VENTILATION: (1) TYP VENT X 4.8 = 4.8 SF

NUMBER OF TYP VENTS TO BE USED:
TOTAL VENTILATION: (5) TYP VENT X 3.2 = 16.0 SF

OVERALL VENTILATION:
4.8 X 16.0 = 20.8 SF

6.4 SF ≥ 6.4 SF VENTILATION REQUIREMENT = OK

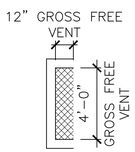
REBAR SCHEDULE	
FLOOR LOAD	CONCRETE FLOOR
50+15	4
FOR INTERIOR PADS @ MODLINE AND ADJACENT BUILDINGS (#5 REBAR EACH WAY)	

FLUSH TO GRADE FOUNDATION		
		CONCRETE FLOOR
	FLOOR LIVE LOAD PSF	50+15
A	STEM WALL	8"(W)
B	SIDE WALL FOOTING	15"(W)
C	END WALL FOOTING	27"(W)
D	INTERIOR PAD FOOTING x12" DEEP	4'-5" SQ
E	ADJACENT PAD FOOTING x12" DEEP	4'-9" SQ
F	ADJACENT PAD FOOTING SPACING	13'-4"

TOTAL FOUNDATION FOS TO FOS		
G	72'x40'	72'-2 1/4"
	72'x40'	72'-1 1/2"

GENERAL NOTES

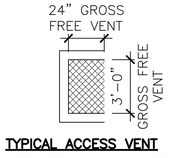
1. THE LOCATION OF VENTS SHOWN HERE IS FOR REFERENCE ONLY AS THE LOCATIONS OF VENTS WILL VARY FROM JOB TO JOB. THE OPENINGS SHALL BE LOCATED AS CLOSE TO THE CORNER AS PRACTICAL AND SHALL PROVIDE CROSS VENTILATION. THE OPENINGS SHALL BE EQUALLY DISTRIBUTED ALONG THE LENGTH OF AT LEAST (2) OPPOSITE ENDS
2. UNDER FLOOR VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
3. PER SECTION 1202.4.1.2, THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED
4. DRAINAGE SHALL BE PROVIDED TO PREVENT WATER PONDING BENEATH BUILDINGS. IF THE BUILDING IS PLACED ON RAISED WOOD FOUNDATIONS, SUCH AS WOOD SLEEPERS PLACED ON GROUND OR ASPHALT THAT IS PLANAR (I.E., NOT LOWERED BELOW ADJACENT GRADE), SLOPED DRAINAGE IS NOT REQUIRED AWAY FROM THE BUILDING IF THERE IS ADEQUATE SLOPE AT THE SITE TO PREVENT WATER FROM PONDING BENEATH AND IMMEDIATELY ADJACENT TO BUILDINGS. FOR OTHER CONDITIONS, SUCH AS LOWERED BASIN UNDER BUILDING OR CONCRETE FOUNDATIONS, SLOPED DRAINAGE SHALL BE PROVIDED AWAY FROM THE BUILDING IN ACCORDANCE WITH CBC SECTION 1804A.4. REFER TO APPENDIX A FOR ADDITIONAL INFORMATION.
5. DESIGN USES AN ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS PER CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTIVE BARRIER ON WALLS DOWN TO TOP OF FOUNDATION WALL, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES ALONG THE ADJACENT EXTERIOR GRADE, AS WELL AS PROTECTION AGAINST STEEL DETERIORATION PER CBC SECTION 2203A.



TYPICAL VENT

VENT: 48"x12" PROVIDES
4.0 SF GROSS VENTILATION
3.2 SF NET VENTILATION

3 F0.0 / 4 F0.0



TYPICAL ACCESS VENT

ACCESS VENT: 36"x24" PROVIDES
6.0 SF GROSS FREE VENTILATION
4.8 SF NET FREE VENTILATION

3 F0.0 / 4 F0.0

TYPICAL VENT & ACCESS VENT DETAILS

KEY NOTES

1. ANCHOR PLATE AT CORNERS AND MODLINES
2. ANCHOR PLATE AT PIERS – SEE #6/F0.0
3. NOT USED
4. ANCHOR PLATES REQUIRED AT RETURN STEMWALL FOOTING AND/OR BLDG SEP STEMWALL FOOTING TYP

UTILITY POINTS OF CONNECTIONS

KEY NOTES

5. 2" WATER LINE P.O.C (U.O.N)
6. 4" SEWER/WASTE LINE P.O.C (U.O.N)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLUSH TO GRADE CONCRETE FOUNDATION PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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4 -

PROJECT NO.:	00-0000
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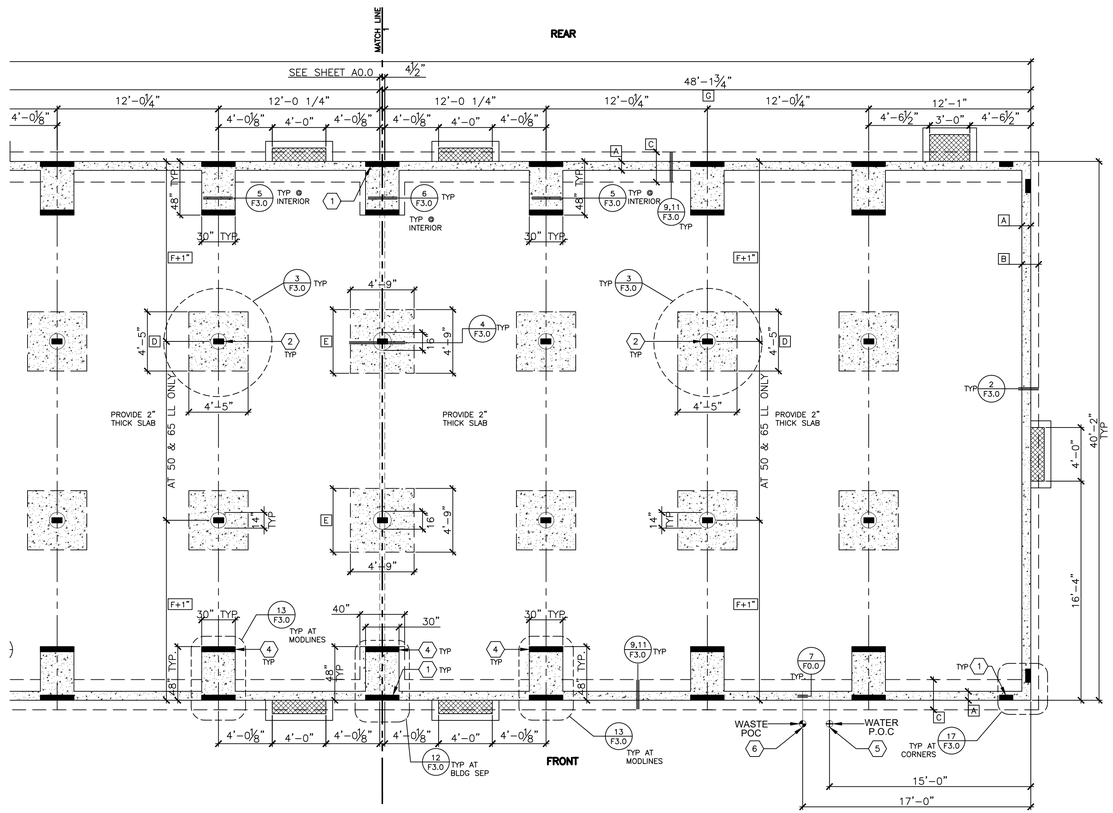
SCALE:	AS NOTED
DATE:	01.29.25

SHEET NUMBER

F3.1-PS



50+15 PSF FOUNDATION PLAN 2 BUILDING 700

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

NOTE:

THE SCHEDULE BELOW TAKES AN ACCOUNT OF (1) ACCESS VENT AND (3) TYPICAL VENT. THE DESIGN PROFESSIONAL CAN ADD ADDITIONAL VENTS IF NECESSARY.

MIN 2 VENTS REQUIRED FOR CROSS VENTILATION

REQUIRED VENTILATION		
BUILDING SIZE	VENTILATION REQUIRED	MIN # VENTS
48'x40'	12.8 SF	4
ACCESS VENT CAN BE USED IN PLACE OF A TYPICAL VENT AS NECESSARY		

SAMPLE VENTILATION FORMULA

BUILDING SQUARE FOOTAGE: 48' X 40' 1920 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
1920 SF / 150 SF = 12.8 SF "NET" VENTILATION REQUIRED

NUMBER OF ACCESS VENTS TO BE USED: 1
TOTAL VENTILATION: (1) TYP VENT X 4.8 = 4.8 SF

NUMBER OF TYP VENTS TO BE USED:
TOTAL VENTILATION: (3) TYP VENT X 3.2 = 9.6 SF

OVERALL VENTILATION:
4.8 X 9. = 14.4 SF

6.4 SF ≥ 6.4 SF VENTILATION REQUIREMENT = OK

REBAR SCHEDULE	
FLOOR LOAD	CONCRETE FLOOR
50+15	4
FOR INTERIOR PADS @ MODLINE AND ADJACENT BUILDINGS (#5 REBAR EACH WAY)	

	FLUSH TO GRADE FOUNDATION	
		CONCRETE FLOOR
	FLOOR LIVE LOAD PSF	50+15
A	STEM WALL	8"(W)
B	SIDE WALL FOOTING	15"(W)
C	END WALL FOOTING	27"(W)
D	INTERIOR PAD FOOTING x12" DEEP	4'-5" SQ
E	ADJACENT PAD FOOTING x12" DEEP	4'-9" SQ
F	ADJACENT PAD FOOTING SPACING	13'-4"

	TOTAL FOUNDATION FOS TO FOS	
	48'x40'	48'-1 3/4"
G		

GENERAL NOTES

1. THE LOCATION OF VENTS SHOWN HERE IS FOR REFERENCE ONLY AS THE LOCATIONS OF VENTS WILL VARY FROM JOB TO JOB. THE OPENINGS SHALL BE LOCATED AS CLOSE TO THE CORNER AS PRACTICAL AND SHALL PROVIDE CROSS VENTILATION. THE OPENINGS SHALL BE EQUALLY DISTRIBUTED ALONG THE LENGTH OF AT LEAST (2) OPPOSITE ENDS
2. UNDER FLOOR VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
3. PER SECTION 1202.4.1.2, THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER–FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED
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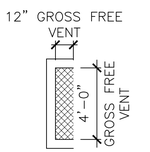
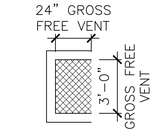


TYPICAL VENT

VENT: 48"x12" PROVIDES
4.0 SF GROSS VENTILATION
3.2 SF NET VENTILATION

3 F0.0 4 F0.0



TYPICAL ACCESS VENT

ACCESS VENT: 36"x24" PROVIDES
6.0 SF GROSS FREE VENTILATION
4.8 SF NET FREE VENTILATION

3 F0.0 4 F0.0

TYPICAL VENT & ACCESS VENT DETAILS

KEY NOTES

1. ANCHOR PLATE AT CORNERS AND MODLINES
2. ANCHOR PLATE AT PIERS – SEE #6/F0.0
3. NOT USED
4. ANCHOR PLATES REQUIRED AT RETURN STEMWALL FOOTING AND/OR BLDG SEP STEMWALL FOOTING TYP

UTILITY POINTS OF CONNECTIONS

KEY NOTES

5. 2" WATER LINE P.O.C (U.O.N)
6. 4" SEWER/WASTE LINE P.O.C (U.O.N)

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Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLUSH TO GRADE CONCRETE FOUNDATION PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS	
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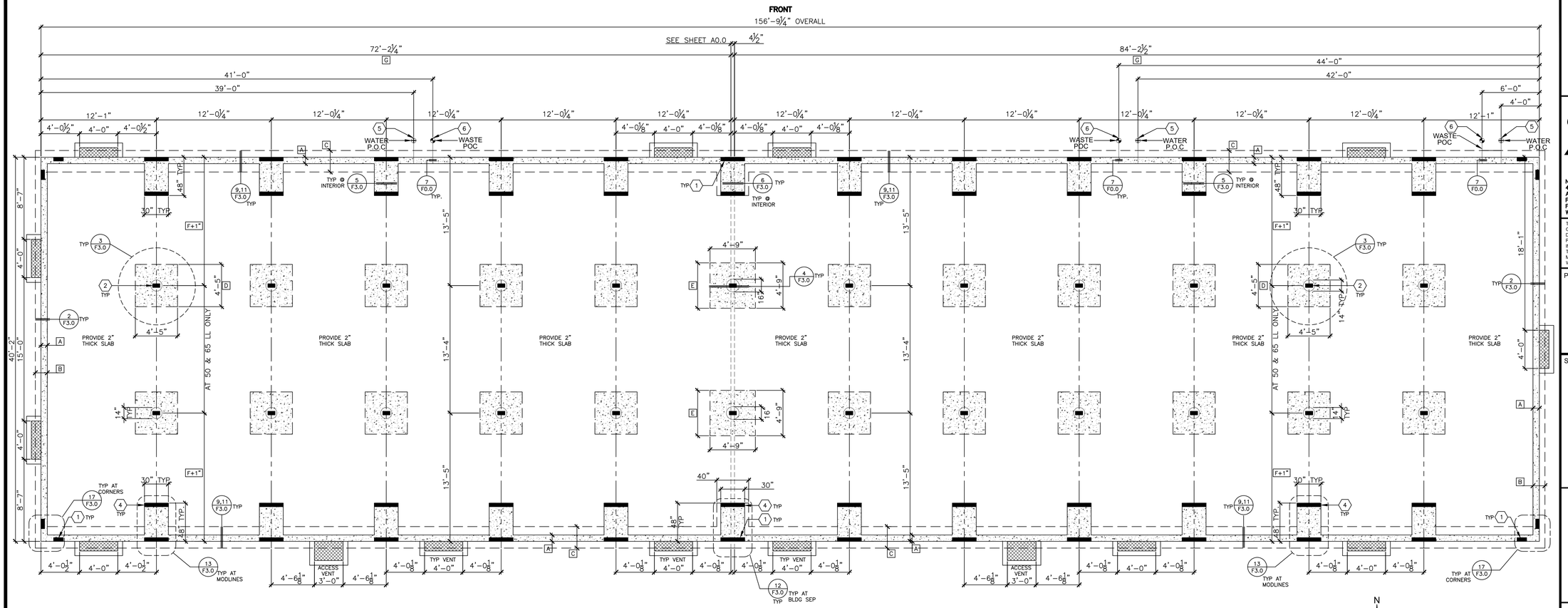
2	-
3	-
4	-
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	01.29.25

SHEET NUMBER

F3.2-PS



50+15 PSF FOUNDATION PLAN BUILDING 800

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

NOTE:

THE SCHEDULE BELOW TAKES AN ACCOUNT OF (1) ACCESS VENT AND (3) TYPICAL VENT. THE DESIGN PROFESSIONAL CAN ADD ADDITIONAL VENTS IF NECESSARY.

MIN 2 VENTS REQUIRED FOR CROSS VENTILATION

REQUIRED VENTILATION		
BUILDING SIZE	VENTILATION REQUIRED	MIN # VENTS
72'x40'	19.2 SF	6
84'x40'	22.4 SF	7
ACCESS VENT CAN BE USED IN PLACE OF A TYPICAL VENT AS NECESSARY		

SAMPLE VENTILATION FORMULA

BUILDING SQUARE FOOTAGE: 72' X 40' 2880 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
2880 SF / 150 SF = 19.2 SF "NET" VENTILATION REQUIRED

NUMBER OF ACCESS VENTS TO BE USED: 1
TOTAL VENTILATION: (1) TYP VENT X 4.8 = 4.8 SF

NUMBER OF TYP VENTS TO BE USED:
TOTAL VENTILATION: (5) TYP VENT X 3.2 = 16.0 SF

OVERALL VENTILATION:
4.8 X 16.0 = 20.8 SF

6.4 SF ≥ 6.4 SF VENTILATION REQUIREMENT = OK

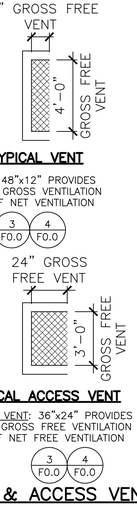
REBAR SCHEDULE	
FLOOR LOAD	CONCRETE FLOOR
50+15	4
FOR INTERIOR PADS @ MODLINE AND ADJACENT BUILDINGS (#5 REBAR EACH WAY)	

	FLUSH TO GRADE FOUNDATION	
		CONCRETE FLOOR
	FLOOR LIVE LOAD PSF	50+15
A	STEM WALL	8"(W)
B	SIDE WALL FOOTING	15"(W)
C	END WALL FOOTING	27"(W)
D	INTERIOR PAD FOOTING x12" DEEP	4'-5" SQ
E	ADJACENT PAD FOOTING x12" DEEP	4'-9" SQ
F	ADJACENT PAD FOOTING SPACING	13'-4"

TOTAL FOUNDATION FOS TO FOS		
G	72'x40'	72'-2 1/4"
	84'x40'	84'-2 1/2"

GENERAL NOTES

1. THE LOCATION OF VENTS SHOWN HERE IS FOR REFERENCE ONLY AS THE LOCATIONS OF VENTS WILL VARY FROM JOB TO JOB. THE OPENINGS SHALL BE LOCATED AS CLOSE TO THE CORNER AS PRACTICAL AND SHALL PROVIDE CROSS VENTILATION. THE OPENINGS SHALL BE EQUALLY DISTRIBUTED ALONG THE LENGTH OF AT LEAST (2) OPPOSITE ENDS
2. UNDER FLOOR VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
3. PER SECTION 1202.4.1.2, THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED
4. DRAINAGE SHALL BE PROVIDED TO PREVENT WATER PONDING BENEATH BUILDINGS. IF THE BUILDING IS PLACED ON RAISED WOOD FOUNDATIONS, SUCH AS WOOD SLEEPERS PLACED ON GROUND OR ASPHALT THAT IS PLANAR (I.E., NOT LOWERED BELOW ADJACENT GRADE), SLOPED DRAINAGE IS NOT REQUIRED AWAY FROM THE BUILDING IF THERE IS ADEQUATE SLOPE AT THE SITE TO PREVENT WATER FROM PONDING BENEATH AND IMMEDIATELY ADJACENT TO BUILDINGS. FOR OTHER CONDITIONS, SUCH AS LOWERED BASIN UNDER BUILDING OR CONCRETE FOUNDATIONS, SLOPED DRAINAGE SHALL BE PROVIDED AWAY FROM THE BUILDING IN ACCORDANCE WITH CBC SECTION 1804A.4. REFER TO APPENDIX A FOR ADDITIONAL INFORMATION.
5. DESIGN USES AN ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS PER CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTIVE BARRIER ON WALLS DOWN TO TOP OF FOUNDATION WALL, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES ALONG THE ADJACENT EXTERIOR GRADE, AS WELL AS PROTECTION AGAINST STEEL DETERIORATION PER CBC SECTION 2203A.



TYPICAL VENT & ACCESS VENT DETAILS

KEY NOTES

1. ANCHOR PLATE AT CORNERS AND MODLINES
2. ANCHOR PLATE AT PIERS – SEE #6/F0.0
3. NOT USED
4. ANCHOR PLATES REQUIRED AT RETURN STEMWALL FOOTING AND/OR BLDG SEP STEMWALL FOOTING TYP

UTILITY POINTS OF CONNECTIONS

KEY NOTES

5. 2" WATER LINE P.O.C (U.O.N)
6. 4" SEWER/WASTE LINE P.O.C (U.O.N)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

FLUSH TO GRADE CONCRETE FOUNDATION PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
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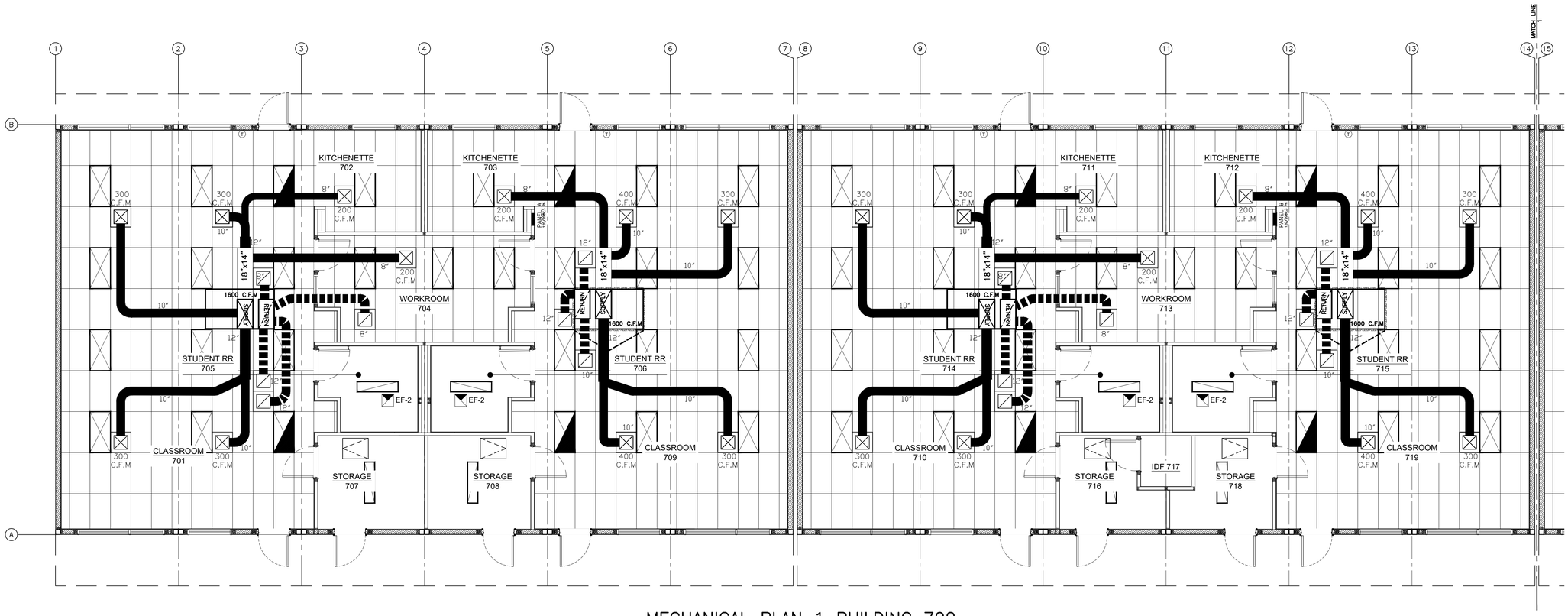
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	01.29.25

SHEET NUMBER

F3.3-PS



MECHANICAL PLAN 1 BUILDING 700

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

PACKAGE HEAT PUMP SCHEDULE (HP 4)	
DESIGNATION	**HP - 4 TON**
SEER / EER @ ARI	16.5 / 13.0
MANUFACTURER	TRANE
TYPE	HEAT PUMP
MODEL NUMBER	WHC048H SERIES
LOCATION	ROOF
ACCESSORIES	1, 2, 3, 4
SUPPLY AIR (C.F.M)	1,600
NET WEIGHT	673
ROOF CURB	BAYCURB043*

1. CEC TITLE 24 COMPLIANT INTEGRATED LOW-LEAKAGE ECONOMIZER AND CO2 DEMAND CONTROL VENTILATION (MICROMETL).
2. SEISMIC CALCULATED ROOF CURB, SLOPED TO MATCH ROOF (MICROMETL).
3. POWER EXHAUST WITH SEPARATE DISCONNECT, OR BAROMETRIC RELIEF.
4. CEC TITLE 24 COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.

EXHAUST FAN SCHEDULE		
DESIGNATION	EF-1	EF-2
EXHAUST RATE	12 ACH	12 ACH
VOLTS / PHASE	115 / 1	115 / 1
DRIVE	DIRECT	DIRECT
MOUNTING	ROOF	CEILING
MANUFACTURER	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	G	SP
CONTROL	EMS	EMS
LOCATION	EXT. RR'S, JAN	RESTROOMS
ACCESSORIES	1	2

1. PROVIDE BACKDRAFT DAMPER, ROUND DUCT CONNECTOR, AND SPEED CONTROLLER.
2. PROVIDE BACKDRAFT DAMPER, BIRD SCREEN, AND ROOF CAP.

INDOOR UNIT SCHEDULE (IDU)	
DESIGNATION	IDU-2 TON
MANUFACTURER	TRANE-MITSUBISHI
TYPE	HIGH-WALL
MODEL NUMBER	TPKA0A024
LOCATION	ELECTRICAL RM
ACCESSORIES	1
UNIT WEIGHT	46 LBS.
UNIT DIMENSIONS	W x D x H 46-1/16"x11-5/8"x14-3/8"

1. WIRED WALL MOUNTED THERMOSTAT.
2. REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)

OUTDOOR UNIT SCHEDULE (ODU)	
DESIGNATION	ODU-2 TON
SEER / EER	21.3 / 12.2
COOLING CAP. (MBH)	24
MANUFACTURER	TRANE-MITSUBISHI
TYPE	HEAT PUMP
MODEL NUMBER	TRUZA024
LOCATION	WALL
UNIT WEIGHT	153 LBS.
UNIT DIMENSIONS	W x D x H 37-13/32"x13x37-1/8"

NOTES:

1. REFER TO SHEET M0.0 FOR DETAILS AND LEGEND. SHEET M0.1 FOR SCHEDULES
2. BUILDING OVERHANG PROJECTION MUST BE A MINIMUM 36" FOR ANY HVAC UNIT 13.00 SEER AND GREATER
3. DUCT SEALING LEAKAGE RATE SHALL NOT EXCEED 6%

LEGEND

- SUPPLY AIR DIFFUSERS
- RETURN AIR REGISTER
- EXHAUST FAN
- THERMOSTAT
- SUPPLY DUCT
- RETURN DUCT
- 18"x14" SUPPLY PLENUM
- 12" NUMBER INDICATES DUCT SIZE
- #100 NUMBER INDICATES C.F.M
- 1600 C.F.M SUPPLY RETURN ROOF MOUNTED HVAC UNITS

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

MECHANICAL PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS	
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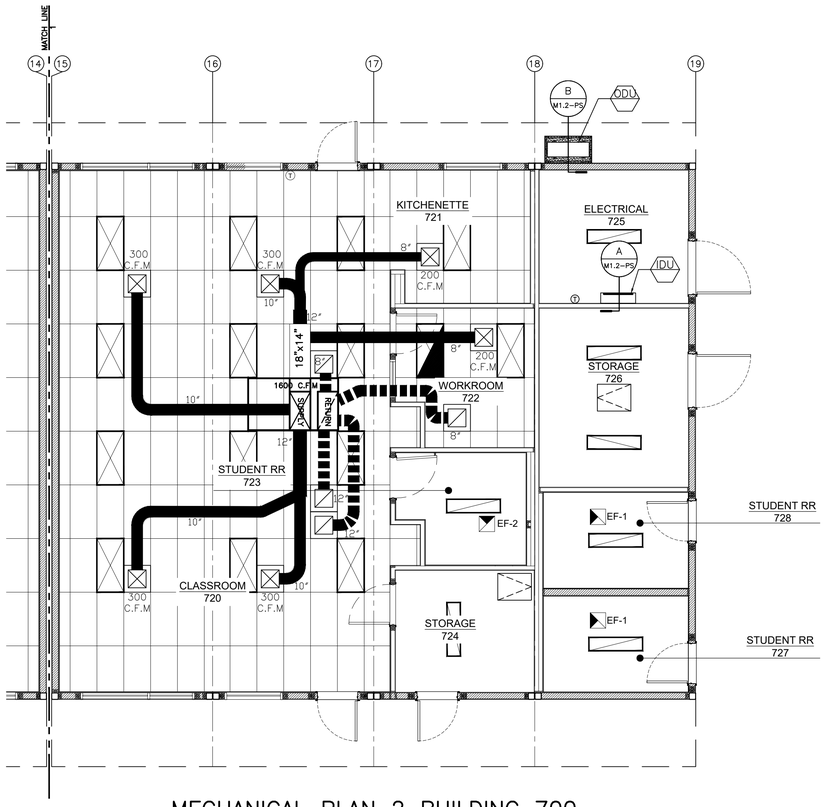
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	01.29.25

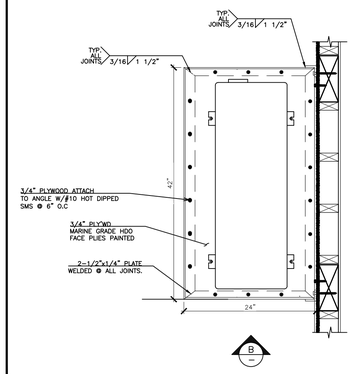
SHEET NUMBER

M1.1-PS



MECHANICAL PLAN 2 BUILDING 700

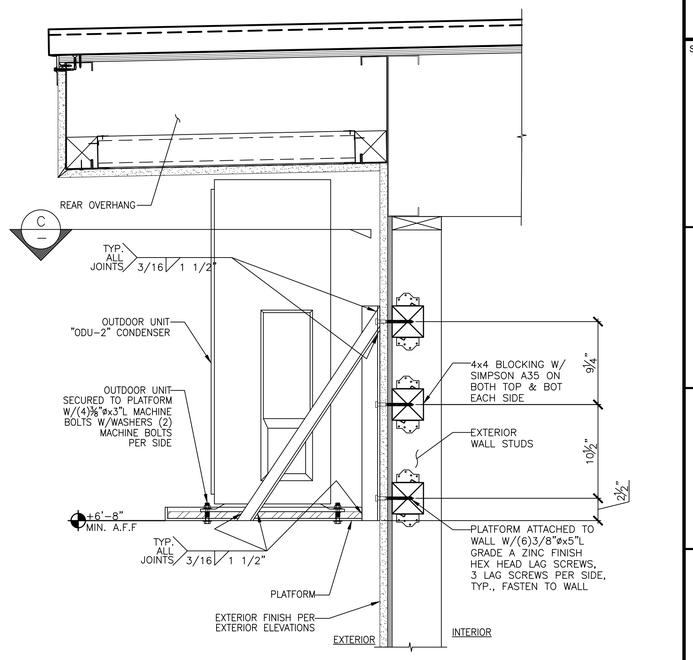
SCALE: 3/16" = 1'-0"



PLAN VIEW

SCALE: NOT TO SCALE

C



MECHANICAL (MINI SPLIT SYSTEM) OUTDOOR UNIT ATTACHMENT

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

B

PACKAGE HEAT PUMP SCHEDULE	HP 4
DESIGNATION	**HP - 4 TON**
SEER / EER @ ARI	16.5 / 13.0
MANUFACTURER	TRANE
TYPE	HEAT PUMP
MODEL NUMBER	WHC SERIES
LOCATION	ROOF
ACCESSORIES	1, 2, 3, 4
SUPPLY AIR (C.F.M)	1,600
NET WEIGHT	673
ROOF CURB	BAYCURB043*

1. **CEC TITLE 24 COMPLIANT INTEGRATED LOW-LEAKAGE ECONOMIZER AND CO2 DEMAND CONTROL VENTILATION (MICROMETL).**
2. **SEISMIC CALCULATED ROOF CURB, SLOPED TO MATCH ROOF (MICROMETL).**
3. **POWER EXHAUST WITH SEPARATE DISCONNECT, OR BAROMETRIC RELIEF.**
4. **CEC TITLE 24 COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.**

EXHAUST FAN SCHEDULE		
DESIGNATION	EF-1	EF-2
EXHAUST RATE	12 ACH	12 ACH
VOLTS / PHASE	115 / 1	115 / 1
DRIVE	DIRECT	DIRECT
MOUNTING	ROOF	CEILING
MANUFACTURER	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	G	SP
CONTROL	EMS	EMS
LOCATION	EXT. RR'S, JAN	RESTROOMS
ACCESSORIES	1	2

1. **PROVIDE BACKDRAFT DAMPER, ROUND DUCT CONNECTOR, AND SPEED CONTROLLER.**
2. **PROVIDE BACKDRAFT DAMPER, BIRD SCREEN, AND ROOF CAP.**

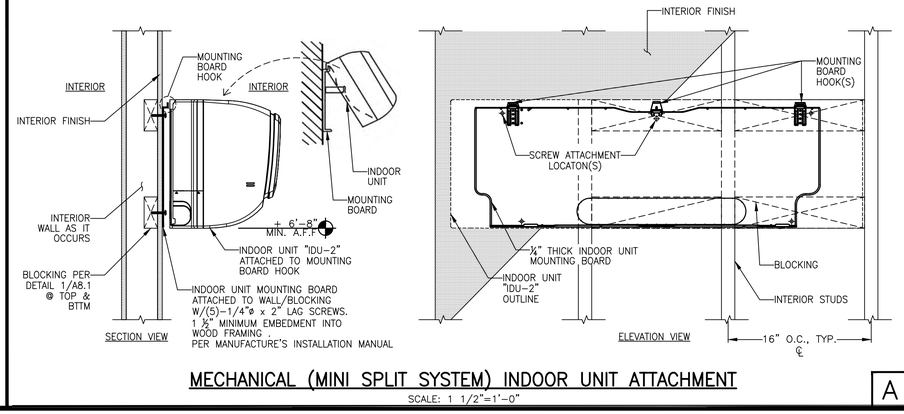
INDOOR UNIT SCHEDULE	IDU
DESIGNATION	IDU-2 TON
MANUFACTURER	TRANE-MITSUBISHI
TYPE	HIGH-WALL
MODEL NUMBER	TPKA0A024
LOCATION	ELECTRICAL RM
ACCESSORIES	1
UNIT WEIGHT	46 LBS.
UNIT DIMENSIONS	W x D x H 46-1/16"x11-5/6"x14-3/8"

1. WIRED WALL MOUNTED THERMOSTAT.
2. REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)

OUTDOOR UNIT SCHEDULE	ODU
DESIGNATION	ODU-2 TON
SEER / EER	21.3 / 12.2
COOLING CAP. (MBH)	24
MANUFACTURER	TRANE-MITSUBISHI
TYPE	HEAT PUMP
MODEL NUMBER	TRUZA024
LOCATION	WALL
UNIT WEIGHT	153 LBS.
UNIT DIMENSIONS	W x D x H 37-13/32"x13x37-1/8"

NOTES:

1. REFER TO SHEET M0.0 FOR DETAILS AND LEGEND. SHEET M0.1 FOR SCHEDULES
2. BUILDING OVERHANG PROJECTION MUST BE A MINIMUM 36" FOR ANY HVAC UNIT 13.00 SEER AND GREATER
3. DUCT SEALING LEAKAGE RATE SHALL NOT EXCEED 6%



MECHANICAL (MINI SPLIT SYSTEM) INDOOR UNIT ATTACHMENT

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

A

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

MECHANICAL PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA No. S 6437 EXP. 12/31/26 STRUCTURAL

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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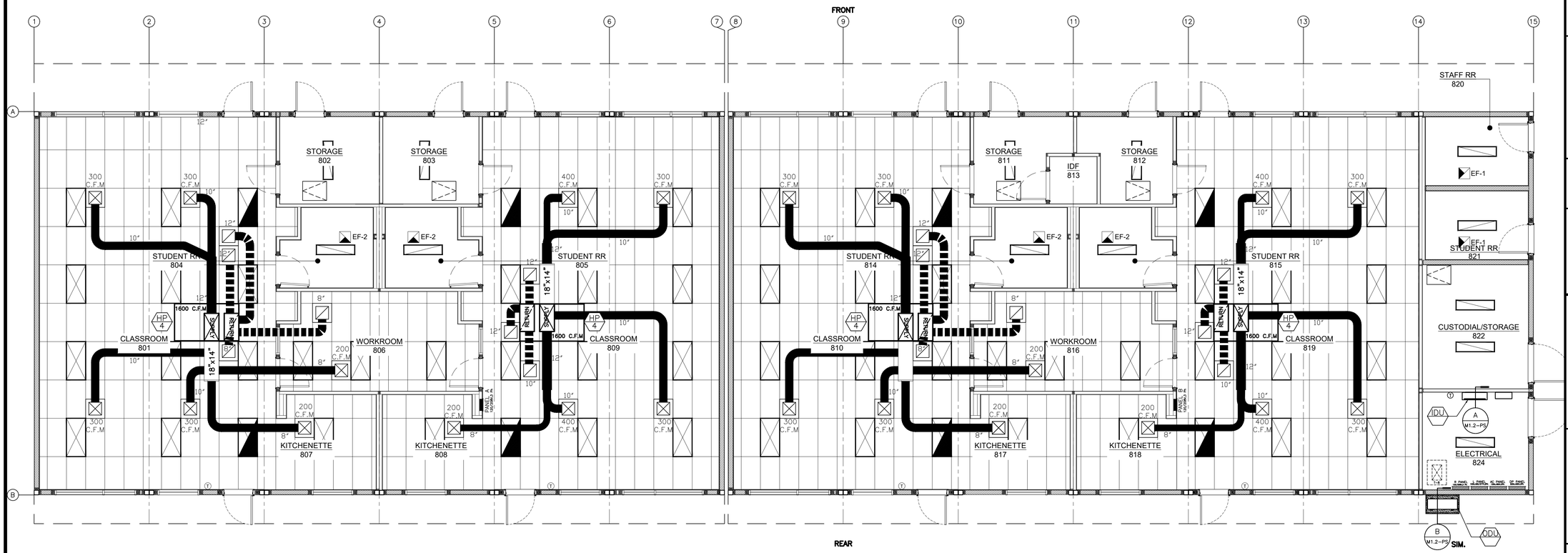
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

M1.2-PS



MECHANICAL PLAN BUILDING 800

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

PACKAGE HEAT PUMP SCHEDULE (HP 4)	
DESIGNATION	**HP - 4 TON**
SEER / EER @ ARI	16.5 / 13.0
MANUFACTURER	TRANE
TYPE	HEAT PUMP
MODEL NUMBER	WHC048H SERIES
LOCATION	ROOF
ACCESSORIES	1, 2, 3, 4
SUPPLY AIR (C.F.M)	1,600
NET WEIGHT	673
ROOF CURB	BAYCURB043*

1. CEC TITLE 24 COMPLIANT INTEGRATED LOW-LEAKAGE ECONOMIZER AND CO2 DEMAND CONTROL VENTILATION (MICROMETL).
2. SEISMIC CALCULATED ROOF CURB, SLOPED TO MATCH ROOF (MICROMETL).
3. POWER EXHAUST WITH SEPARATE DISCONNECT, OR BAROMETRIC RELIEF.
4. CEC TITLE 24 COMPLIANT 7-DAY PROGRAMMABLE THERMOSTAT.

EXHAUST FAN SCHEDULE		
DESIGNATION	EF-1	EF-2
EXHAUST RATE	12 ACH	12 ACH
VOLTS / PHASE	115 / 1	115 / 1
DRIVE	DIRECT	DIRECT
MOUNTING	ROOF	CEILING
MANUFACTURER	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	G	SP
CONTROL	EMS	EMS
LOCATION	EXT. RR'S, JAN	RESTROOMS
ACCESSORIES	1	2

1. PROVIDE BACKDRAFT DAMPER, ROUND DUCT CONNECTOR, AND SPEED CONTROLLER.
2. PROVIDE BACKDRAFT DAMPER, BIRD SCREEN, AND ROOF CAP.

INDOOR UNIT SCHEDULE (IDU)	
DESIGNATION	IDU-2 TON
MANUFACTURER	TRANE-MITSUBISHI
TYPE	HIGH-WALL
MODEL NUMBER	TPKA0A024
LOCATION	ELECTRICAL RM
ACCESSORIES	1
UNIT WEIGHT	46 LBS.
UNIT DIMENSIONS	W x D x H 46-1/16"x11-5/8"x14-3/8"

1. WIRED WALL MOUNTED THERMOSTAT.
2. REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)

OUTDOOR UNIT SCHEDULE (ODU)	
DESIGNATION	ODU-2 TON
SEER / EER	21.3 / 12.2
COOLING CAP. (MBH)	24
MANUFACTURER	TRANE-MITSUBISHI
TYPE	HEAT PUMP
MODEL NUMBER	TRUZA024
LOCATION	WALL
UNIT WEIGHT	153 LBS.
UNIT DIMENSIONS	W x D x H 37-13/32"x13x37-1/8"

NOTES:

1. REFER TO SHEET M0.0 FOR DETAILS AND LEGEND. SHEET M0.1 FOR SCHEDULES
2. BUILDING OVERHANG PROJECTION MUST BE A MINIMUM 36" FOR ANY HVAC UNIT 13.00 SEER AND GREATER
3. DUCT SEALING LEAKAGE RATE SHALL NOT EXCEED 6%

LEGEND

- SUPPLY AIR DIFFUSERS
- RETURN AIR REGISTER
- EXHAUST FAN
- THERMOSTAT
- SUPPLY DUCT
- RETURN DUCT
- SUPPLY PLENUM
- 12" NUMBER INDICATES DUCT SIZE
- #100 NUMBER INDICATES C.F.M
- 1600 C.F.M SUPPLY RETURN ROOF MOUNTED HVAC UNITS

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

MECHANICAL PLAN WALL

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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PROJECT NO.:	00-0000
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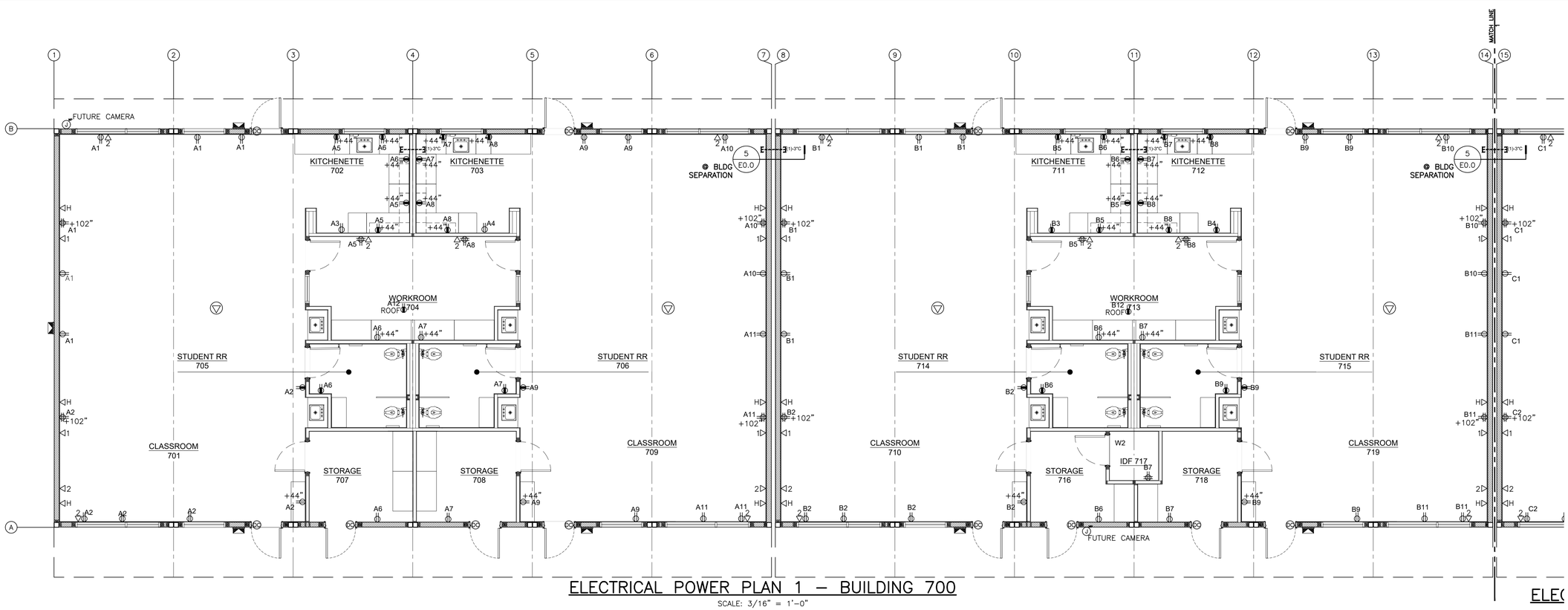
SHEET NUMBER

M1.3-PS



ELECTRICAL POWER PLAN 1 – BUILDING 700

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

PANEL A

MAIN BREAKER 80A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
RECEPTS	1260	1 / 20	1 2	1 / 20	1260	RECEPT
REFRIG	800	1 / 20	3 4	1 / 20	800	REFRIG
RECEPTS	900	1 / 20	5 6	1 / 20	900	RECEPT
RECEPTS	900	1 / 20	7 8	1 / 20	900	RECEPT
RECEPTS	900	1 / 20	9 10	1 / 20	720	RECEPT
RECEPTS	900	1 / 20	11 12	1 / 20	180	ROOF RECEPT

4,320 Watts + 3,220 Watts + 2,880 Watts + 2,605 25% Watts / 208 Voltage = 29 A Amps Per Phase

PANEL B

MAIN BREAKER 80A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
RECEPTS	1260	1 / 20	1 2	1 / 20	1260	RECEPT
REFRIG	800	1 / 20	3 4	1 / 20	800	REFRIG
RECEPTS	900	1 / 20	5 6	1 / 20	900	RECEPT
RECEPTS	1080	1 / 20	7 8	1 / 20	900	RECEPT
RECEPTS	1080	1 / 20	9 10	1 / 20	720	RECEPT
RECEPTS	900	1 / 20	11 12	1 / 20	180	ROOF RECEPT

4,500 Watts + 3,400 Watts + 2,880 Watts + 2,695 25% Watts / 208 Voltage = 38 Amps Per Phase

PANEL C

MAIN BREAKER 80A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
RECEPTS	1260	1 / 20	1 2	1 / 20	1260	RECEPT
REFRIG	800	1 / 20	3 4	1 / 20	900	RECEPT
RECEPTS	900	1 / 20	5 6	1 / 20	900	RECEPT
ROOF RECEPTS	180	1 / 20	7 8			

2,700 Watts + 1,700 Watts + 1,800 Watts + 1,100 25% Watts / 208 Voltage = 15 A Amps Per Phase

R- PANEL

MAIN BREAKER 125A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
PANEL A	3,414	3	1 2	3	3,534	PANEL B
PANEL A	3,414		3 4		3,534	PANEL B
PANEL A	3,414	80	5 6	80	3,534	PANEL B
PANEL C	2,007	3	7 8			
PANEL C	2,007		9 10			
PANEL C	2,007	80	11 12			

8,955 Watts + 8,955 Watts + 8,955 Watts + 6,716 25% Watts / 208 Voltage = 93 A Amps Per Phase

(L) LABEL AND LOCK ON DEVICE

* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

GENERAL NOTES

1. SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
2. PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1008.3 LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4 / A8.1 FOR ATTACHMENT.

PROJECT SPECIFIC (CHECK ONE):
STANDARD DESIGN AS SHOWN

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH MODULAR STRUCTURES INTERNATIONAL, INC. designs
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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SOUTHERN CALIFORNIA DIVISON
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

ELECTRICAL POWER PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — STRUCTURAL — STATE OF CALIFORNIA — No. S 6993 — EXP. 12/31/26

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

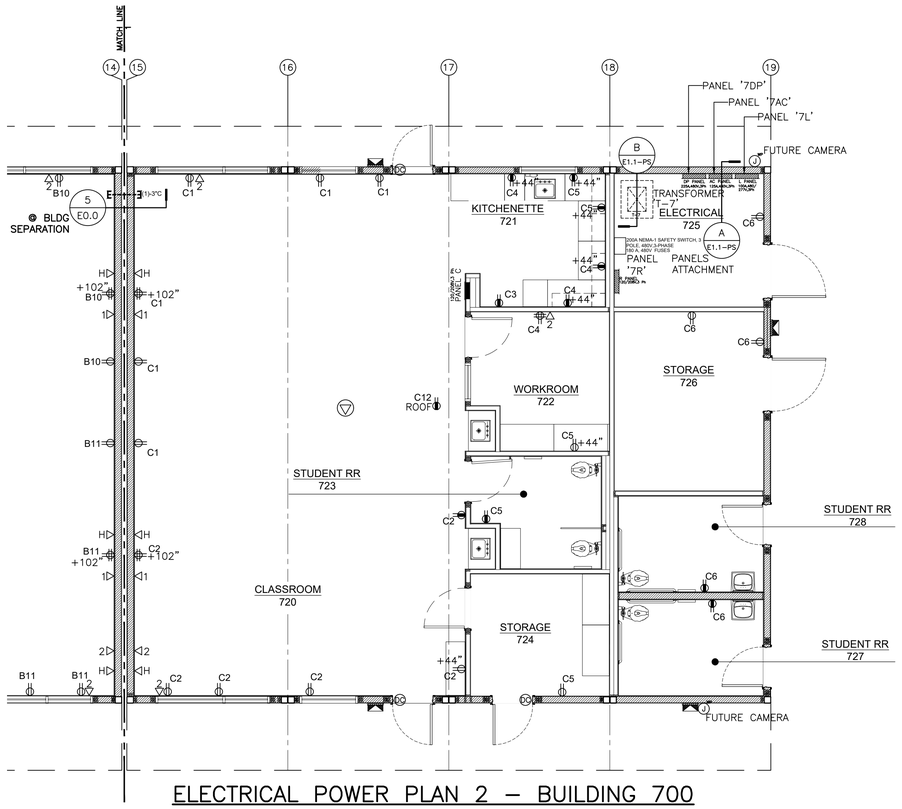
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	01.29.25

SHEET NUMBER

E1.0-PS



ELECTRICAL POWER PLAN 2 – BUILDING 700

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

PANEL C
MAIN BREAKER 80A

Rated Amps: 125A | Volts: 120/208V
Interior: X | Phase / Wire: 3 PHASE/4 WIRE
Exterior: | Flush:
NEMA Rated: NEMA 1 | Surface: X

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
RECEPTS	1260	1 20	1	2	1 20	1260	RECEPT
REFRG	800	1 20	3	4	1 20	900	RECEPT
RECEPTS	900	1 20	5	6	1 20	900	RECEPT
ROOF RECEPTS	180	1 20	7	8			
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

2,700 Watts + 1,700 Watts + 1,800 Watts + 1,100 25% Watts | 208 Voltage = 15 A Amps Per Phase

R- PANEL
MAIN BREAKER 125A

Rated Amps: 125A | Volts: 120/208V
Interior: X | Phase / Wire: 3 PHASE/4 WIRE
Exterior: | Flush:
NEMA Rated: NEMA 1 | Surface: X

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
PANEL A	3,414	3	1	2	3	3,534	PANEL B
PANEL A	3,414		3	4		3,534	PANEL B
PANEL A	3,414	80	5	6	80	3,534	PANEL B
PANEL C	2,007	3	7	8			
PANEL C	2,007		9	10			
PANEL C	2,007	80	11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

8,955 Watts + 8,955 Watts + 8,955 Watts + 6,716 25% Watts | 208 Voltage = 93 A Amps Per Phase

(L) LABEL AND LOCK ON DEVICE

* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

GENERAL NOTES

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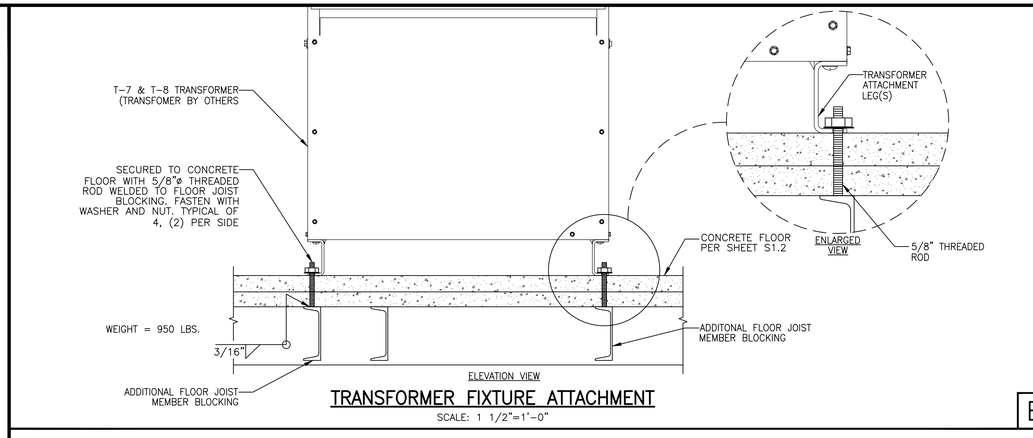
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4/AB.1 FOR ATTACHMENT.

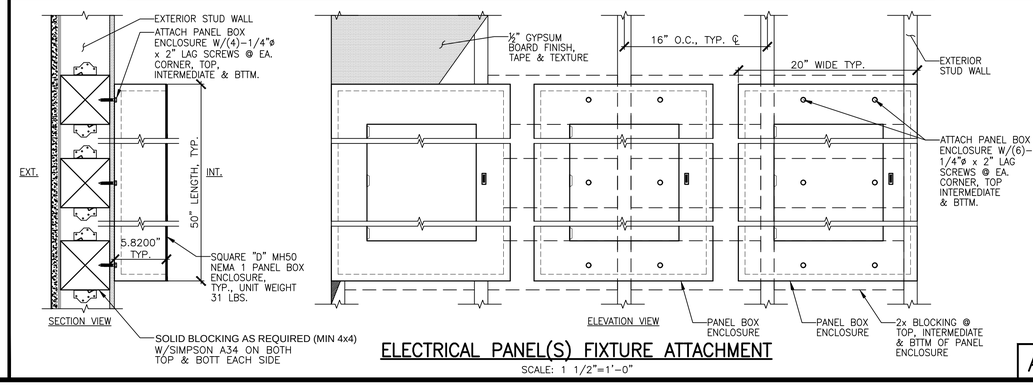
PROJECT SPECIFIC (CHECK ONE):
STANDARD DESIGN AS SHOWN



TRANSFORMER FIXTURE ATTACHMENT

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

B



ELECTRICAL PANEL(S) FIXTURE ATTACHMENT

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

A

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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CONTRACTORS LICENSE #837357

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

ELECTRICAL POWER PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. ORTH — No. S-6437 — EXP. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

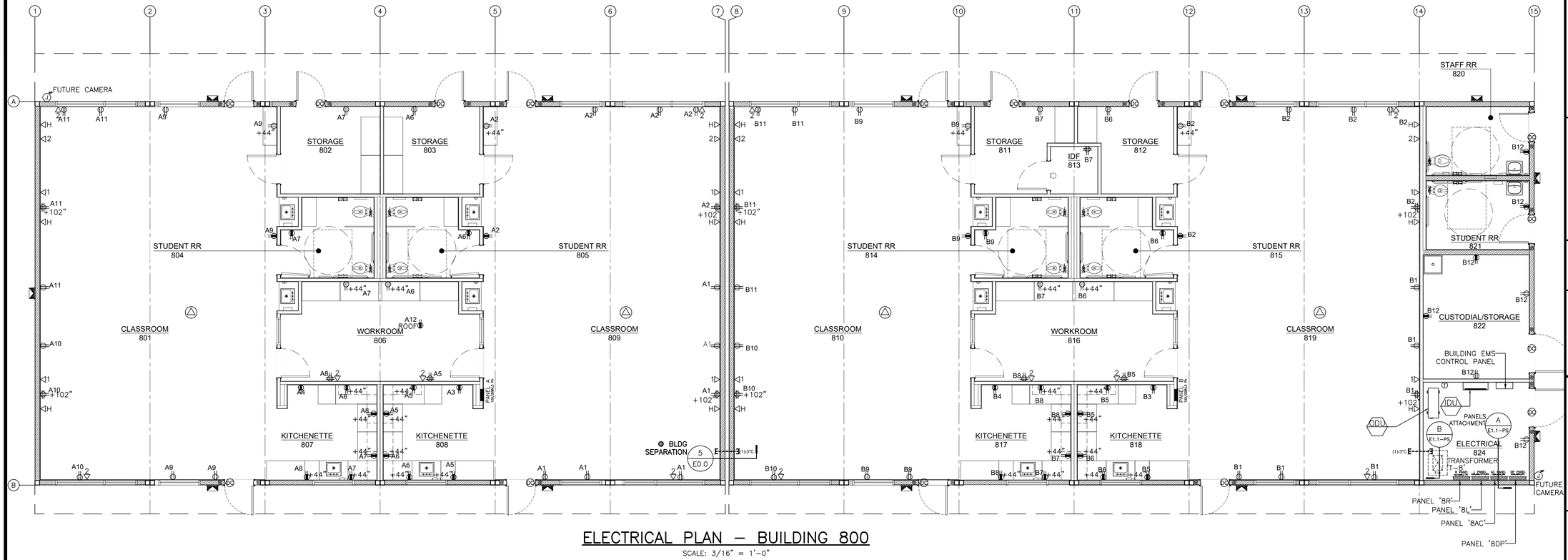
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	03.06.25

SHEET NUMBER

E1.1-PS



ELECTRICAL PLAN – BUILDING 800

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

PANEL SCHEDULE

PANEL A — MAIN BREAKER 125A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
RECEPTS	1260	3 / 20	1	2	1 / 20	1260	RECEPT
REFRIG	800	1 / 20	3	4	1 / 20	800	REFRIG
RECEPTS	900	1 / 20	5	6	1 / 20	900	RECEPT
RECEPTS	900	1 / 20	7	8	1 / 20	900	RECEPT
RECEPTS	900	1 / 20	9	10	1 / 20	720	RECEPT
RECEPTS	900	1 / 20	11	12	1 / 20	180	ROOF RECEPT
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

4,320 Watts + 3,220 Watts + 2,880 Watts + 2,605 25% Watts + 208 Voltage = 37 Amps Per Phase

PANEL B — MAIN BREAKER 125A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
RECEPTS	1260	3 / 20	1	2	1 / 20	1260	RECEPT
REFRIG	800	1 / 20	3	4	1 / 20	800	REFRIG
RECEPTS	900	1 / 20	5	6	1 / 20	900	RECEPT
RECEPTS	1080	1 / 20	7	8	1 / 20	900	RECEPT
RECEPTS	1080	1 / 20	9	10	1 / 20	720	RECEPT
RECEPTS	900	1 / 20	11	12	1 / 20	1260	RECEPT
ROOF RECEPTS	180	1 / 20	13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

4,680 Watts + 3,400 Watts + 4,140 Watts + 3,055 25% Watts + 208 Voltage = 43 Amps Per Phase

R- PANEL — MAIN BREAKER 400A

Rated Amps: 400A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 120/208V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr			Ckt Bkr	Load	Description
PANEL A	3,474	3 / 100	1	2	3 / 100	4,074	PANEL B
PANEL A	3,474		3	4		4,074	PANEL B
PANEL A	3,474		5	6		4,074	PANEL B
			7	8			
			9	10			
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

7,548 Watts + 7,548 Watts + 7,548 Watts + 5,661 25% Watts + 208 Voltage = 79 Amps Per Phase

GENERAL NOTES

1. SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
2. PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1008.3 LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4/A5.1 FOR ATTACHMENT.

PROJECT SPECIFIC (CHECK ONE):
STANDARD DESIGN AS SHOWN

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

ELECTRICAL PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

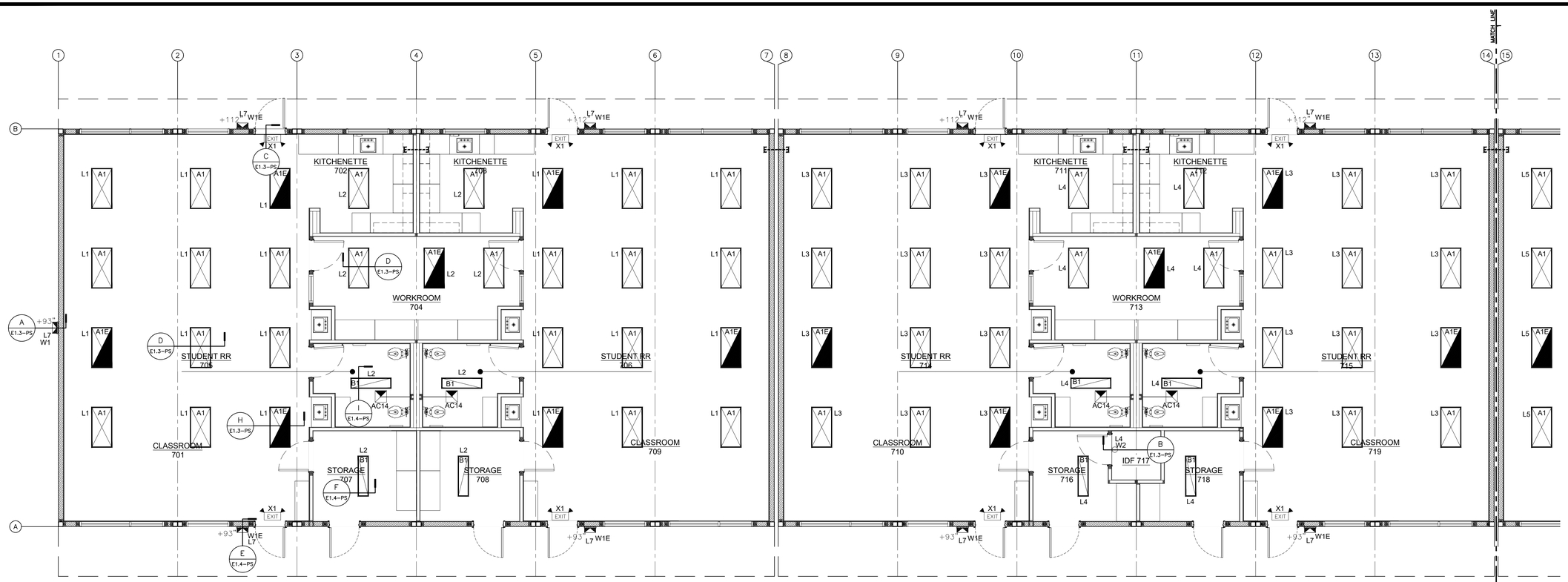
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

E1.2-PS



ELECTRICAL LIGHTING PLAN 1 – BUILDING 700

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

PANEL SCHEDULE

PANEL DP — MAIN BREAKER 225A

Rated Amps: 225A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 480/277V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
PANEL AC	11,148	3	1 2	3	1,454	PANEL L
PANEL AC	10,735		3 4		1,271	PANEL L
PANEL AC	10,735	125	5 6	60	830	PANEL L
TRANSFORMER T-7	15,000	3	7 8			
TRANSFORMER T-7	15,000		9 10			
TRANSFORMER T-7	15,000	60	11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
			31 32			
			33 34			
			35 36			
			37 38			
			39 40			
			41 42			

27,602 Watts + 27,006 Watts + 26,656 Watts + 0 25% Watts + 480 Voltage = 169 A Amps Per Phase

PANEL AC — MAIN BREAKER 125A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 480/277V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
WH/048 HVCA	2147	3	1 2	3	2147	WH/048 HVCA
WH/048 HVCA	2147		3 4		2147	WH/048 HVCA
WH/048 HVCA	2147	20	5 6	20	2147	WH/048 HVCA
WH/048 HVCA	2147	3	7 8	3	2147	WH/048 HVCA
WH/048 HVCA	2147		9 10		2147	WH/048 HVCA
WH/048 HVCA	2147	20	11 12	20	2147	WH/048 HVCA
WH/048 HVCA	2147	3	13 14	1	413	EXHAUST FAN
WH/048 HVCA	2147		15 16	20		
WH/048 HVCA	2147	20	17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
			31 32			
			33 34			
			35 36			
			37 38			
			39 40			
			41 42			

11,148 Watts + 10,735 Watts + 10,735 Watts + 8,155 25% Watts + 480 Voltage = 85 A Amps Per Phase

PANEL L — MAIN BREAKER 60A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 480/277V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
INTERIOR LIGHTING	936	1 20	1 2	1 20	335	INTERIOR LIGHTING
INTERIOR LIGHTING	936	1 20	3 4	1 20	335	INTERIOR LIGHTING
INTERIOR LIGHTING	468	1 20	5 6	1 20	362	INTERIOR LIGHTING
EXTERIOR LIGHTING	143	1 20	7 8	1 20	40	"EXIT" LIGHTS
			9 10			
			11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
			31 32			
			33 34			
			35 36			
			37 38			
			39 40			
			41 42			

1,454 Watts + 1,271 Watts + 830 Watts + 879 25% Watts + 277 Voltage = 16 A Amps Per Phase

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE VOLTAGE	FIXTURE WATTAGE	MOUNTING	DRIVER & LED COLOR TEMPERATURE	DESCRIPTION	MANUFACTURER	CATALOG #
A1	277	39	RECESSED	LED -4000K	RECESSED 2x4 LED TROFFER	LITHONIA	2BLT4-48L-AOP-EZ1-LP840
A1E	277	39	RECESSED	LED -4000K EMERGENCY DRIVER	RECESSED 2'x4' LED TROFFER WITH INTEGRAL BATTERY BACKUP	LITHONIA	2BLT4-48L-AOP-EZ1-LP840-E10WLCP
B1	277	35	SURFACE	LED -4000K	SURFACE 1'x4' LED FIXTURE	LITHONIA	STL4-40L-EZ1-LP840
B1E	277	35	SURFACE	LED -4000K	SURFACE 1'x4' LED FIXTURE WITH INTEGRAL BATTERY BACKUP	LITHONIA	STL4-40L-EZ1-LP840-E10WLCP
W1	277	11	WALL MOUNTED	LED -4000K	EXTERIOR LED WALLPACK	LITHONIA	WPX1-LED-P1-40K-MVOLT-E14WC-DBXLD
W1E	277	11	WALL MOUNTED	LED -4000K	EXTERIOR LED WALLPACK WITH INTEGRAL EMERGENCY BATTERY PACK	LITHONIA	WPX1-LED-P1-40K-MVOLT-E14WC-DBXLD
W2	277	16	WALL MOUNTED	LED -4000K	LED WALLPACK	LITHONIA	TWR1-LED-ALO-SWW2-UVOLT-PE-DDBTXD
X1	277	3	CEILING MOUNTED	LED -4600K	LED ILLUMINATED EXIT/EMERGENCY SIGN WITH 90 MIN. BATTERY BACKUP	LITHONIA	LHQM-LED-R-HO

(L) LABEL AND LOCK ON DEVICE

* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

GENERAL NOTES

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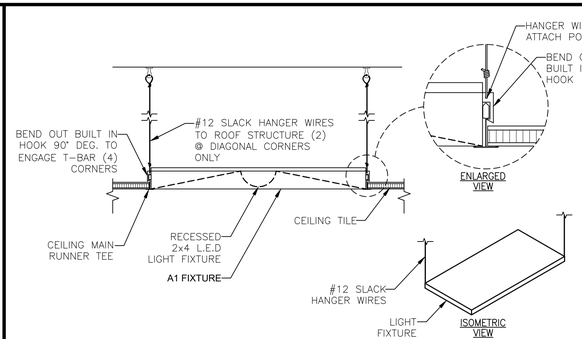
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4/A8.1 FOR ATTACHMENT.

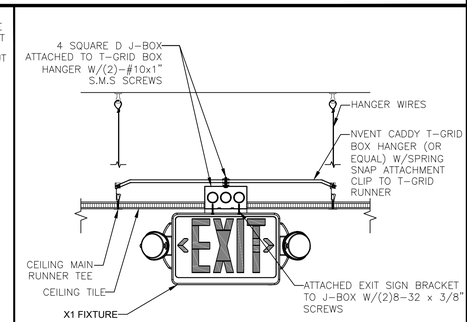
PROJECT SPECIFIC (CHECK ONE):
☐ STANDARD DESIGN AS SHOWN



T-GRID LIGHT FIXTURE ATTACHMENT

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

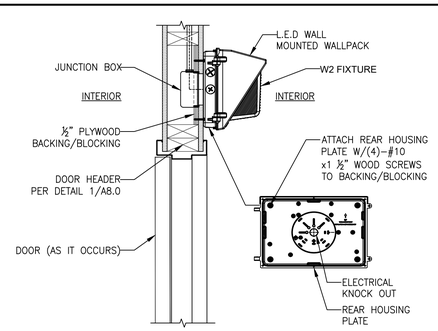
D



ELECTRICAL FIXTURE ATTACHMENT

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

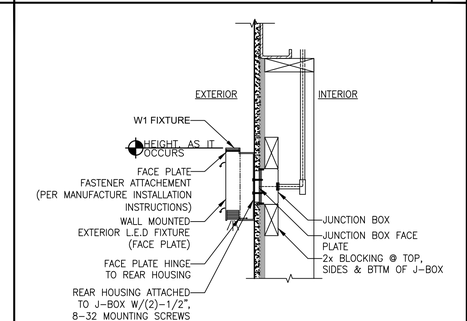
C



ELECTRICAL FIXTURE ATTACHMENT

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

B



ELECTRICAL FIXTURE ATTACHMENT

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

A

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
AURORA DESIGNS | MODTECH Designs | MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
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FAX: (209) 676-8087
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA, 95348

SHEET TITLE:

ELECTRICAL LIGHTING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

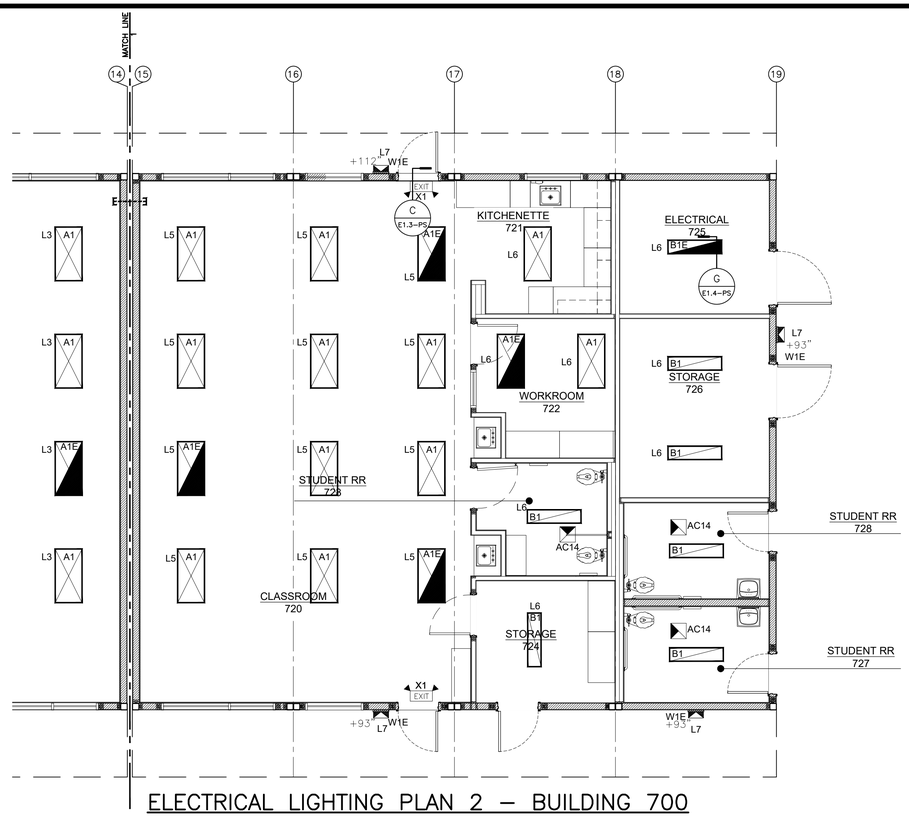
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	03.06.25

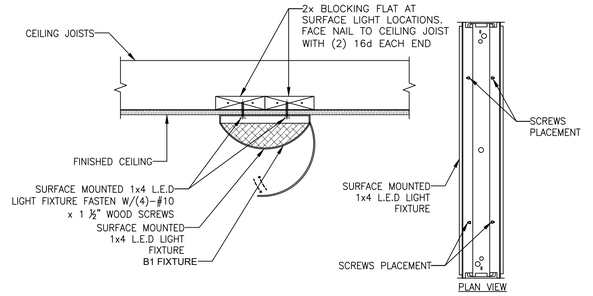
SHEET NUMBER

E1.3-PS



ELECTRICAL LIGHTING PLAN 2 – BUILDING 700

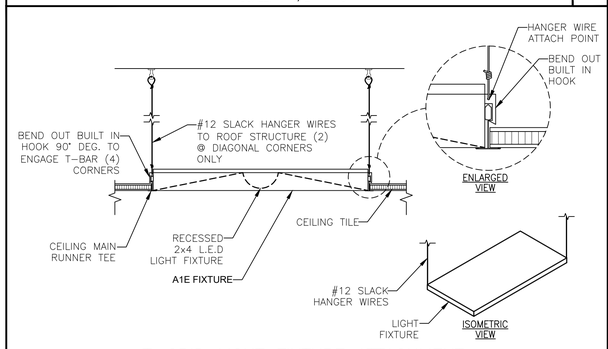
SCALE: 3/16" = 1'–0"



SURFACE MOUNT LIGHT FIXTURE

SCALE: 1 1/2"=1'–0"

I



T–GRID LIGHT FIXTURE ATTACHMENT

SCALE: 1 1/2"=1'–0"

H

PANEL SCHEDULE

PANEL DP — MAIN BREAKER 225A

Rated Amps: 225A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 480/277V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
PANEL AC	11,148	3	1	2	1,454	PANEL L
PANEL AC	10,735		3	4	1,271	PANEL L
PANEL AC	10,735	125	5	6	830	PANEL L
TRANSFORMER T-7	15,000	3	7	8		
TRANSFORMER T-7	15,000		9	10		
TRANSFORMER T-7	15,000	60	11	12		
			13	14		
			15	16		
			17	18		
			19	20		
			21	22		
			23	24		
			25	26		
			27	28		
			29	30		
			31	32		
			33	34		
			35	36		
			37	38		
			39	40		
			41	42		

27,602 Watts + 27,006 Watts + 26,656 Watts + 0 25% Watts + 480 Voltage = 169 A Amps Per Phase

PANEL AC — MAIN BREAKER 125A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 480/277V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
WHC048 HVCA	2147	3	1	2	2147	WHC048 HVCA
WHC048 HVCA	2147		3	4	2147	WHC048 HVCA
WHC048 HVCA	2147	20	5	6	2147	WHC048 HVCA
WHC048 HVCA	2147	3	7	8	2147	WHC048 HVCA
WHC048 HVCA	2147	20	9	10	2147	WHC048 HVCA
WHC048 HVCA	2147		11	12	2147	WHC048 HVCA
WHC048 HVCA	2147	3	13	14	413	EXHAUST FAN
WHC048 HVCA	2147	20	15	16		
			17	18		
			19	20		
			21	22		
			23	24		
			25	26		
			27	28		
			29	30		
			31	32		
			33	34		
			35	36		
			37	38		
			39	40		
			41	42		

11,148 Watts + 10,735 Watts + 10,735 Watts + 8,155 25% Watts + 480 Voltage = 85 A Amps Per Phase

PANEL L — MAIN BREAKER 60A

Rated Amps: 125A | Interior: X | Exterior: | NEMA Rated: NEMA 1 | Volts: 480/277V | Phase / Wire: 3 PHASE/4 WIRE | Flush: | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
INTERIOR LIGHTING	936	1 20	1	2	1 20	335 INTERIOR LIGHTING
INTERIOR LIGHTING	936	1 20	3	4	1 20	335 INTERIOR LIGHTING
INTERIOR LIGHTING	468	1 20	5	6	1 20	362 INTERIOR LIGHTING
EXTERIOR LIGHTING	143	1 20	7	8	1 20	40 "EXIT" LIGHTS
			9	10		
			11	12		
			13	14		
			15	16		
			17	18		
			19	20		
			21	22		
			23	24		
			25	26		
			27	28		
			29	30		
			31	32		
			33	34		
			35	36		
			37	38		
			39	40		
			41	42		

1,454 Watts + 1,271 Watts + 830 Watts + 879 25% Watts + 277 Voltage = 16 A Amps Per Phase

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE VOLTAGE	FIXTURE WATTAGE	MOUNTING	DRIVER & LED COLOR TEMPERATURE	DESCRIPTION	MANUFACTURER	CATALOG #
A1	277	39	RECESSED	LED -4000K	RECESSED 2x4 LED TROFFER	LITHONIA	2BLT4-48L-AOP-EZ1-LP840
A1E	277	39	RECESSED	LED -4000K EMERGENCY DRIVER	RECESSED 2'x4' LED TROFFER WITH INTEGRAL BATTERY BACKUP	LITHONIA	2BLT4-48L-AOP-EZ1-LP840-E10WLCP
B1	277	35	SURFACE	LED -4000K	SURFACE 1'x4' LED FIXTURE	LITHONIA	STL4-40L-EZ1-LP840
B1E	277	35	SURFACE	LED -4000K	SURFACE 1'x4' LED FIXTURE WITH INTEGRAL BATTERY BACKUP	LITHONIA	STL4-40L-EZ1-LP840-E10WLCP
W1	277	11	WALL MOUNTED	LED -4000K	EXTERIOR LED WALLPACK	LITHONIA	WPX1-LED-P1-40K-MVOLT-E14WC-DBXLD
W1E	277	11	WALL MOUNTED	LED -4000K	EXTERIOR LED WALLPACK WITH INTEGRAL EMERGENCY BATTERY PACK	LITHONIA	WPX1-LED-P1-40K-MVOLT-E14WC-DBXLD
W2	277	16	WALL MOUNTED	LED -4000K	LED WALLPACK	LITHONIA	TWR1-LED-ALO-SWW2-UVOLT-PE-DDBTXD
X1	277	3	CEILING MOUNTED	LED -4600K	LED ILLUMINATED EXIT/EMERGENCY SIGN WITH 90 MIN. BATTERY BACKUP	LITHONIA	LHQM-LED-R-HO

(L) LABEL AND LOCK ON DEVICE

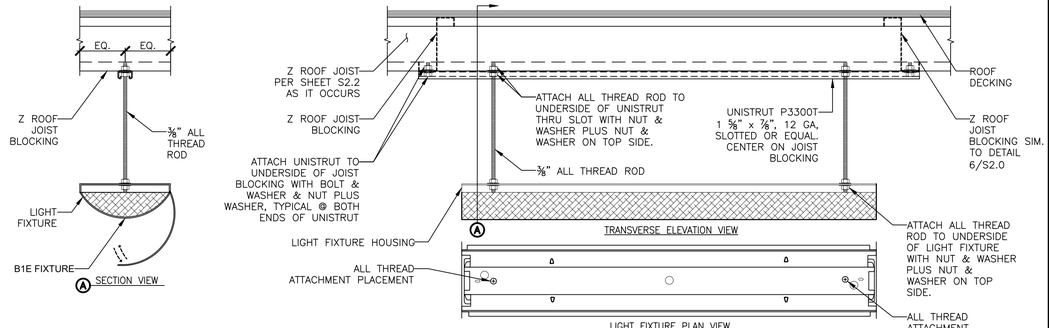
* CIRCUIT BREAKER TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

** DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2

GENERAL NOTES

1. SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
2. PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1008.3 LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS (4 / A8.1) FOR ATTACHMENT.

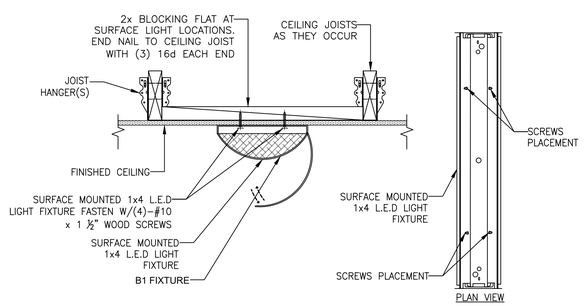
PROJECT SPECIFIC (CHECK ONE):
☐ STANDARD DESIGN AS SHOWN



ELECTRICAL FIXTURE ATTACHMENT

SCALE: 1 1/2"=1'–0"

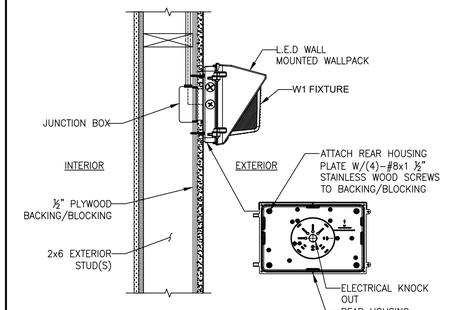
G



SURFACE MOUNT LIGHT FIXTURE

SCALE: 1 1/2"=1'–0"

F



ELECTRICAL FIXTURE ATTACHMENT

SCALE: 1 1/2"=1'–0"

E

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DATE: 03/07/2025

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

ELECTRICAL LIGHTING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — No. S-6427 — DEP. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

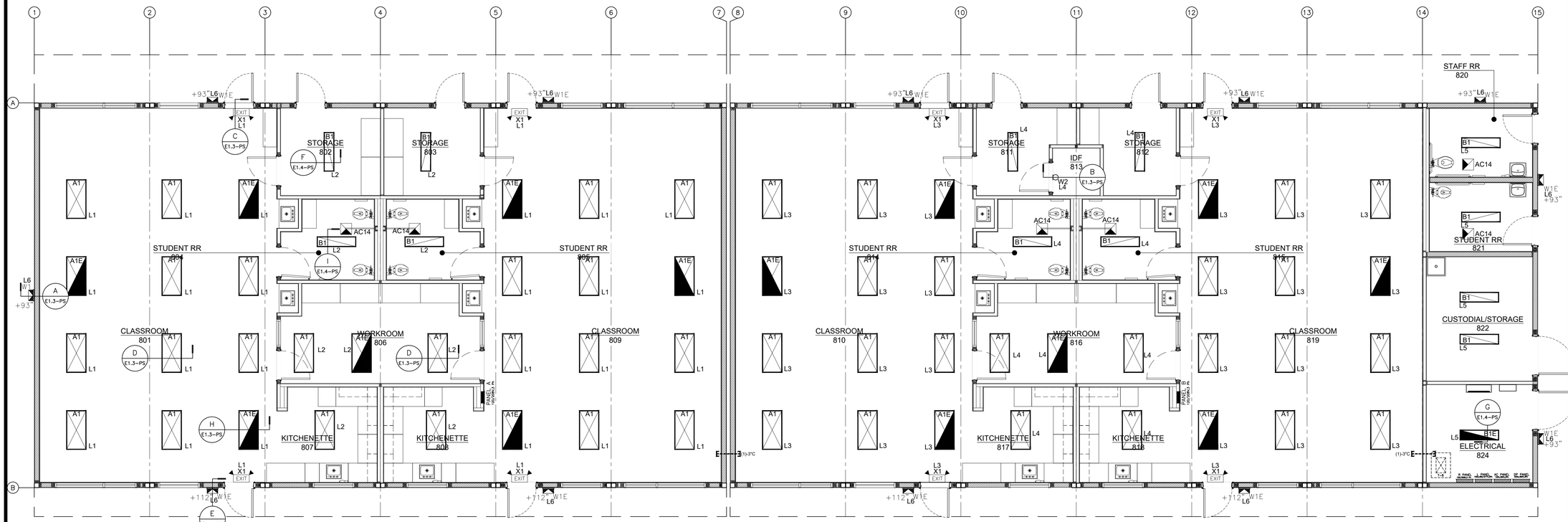
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	03.06.25

SHEET NUMBER

E1.4-PS



ELECTRICAL PLAN – BUILDING 800

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

PANEL SCHEDULE

PANEL DP
Rated Amps: 225A | MAIN BREAKER 225A | Volts: 480/277V
Interior: X | Phase / Wire: 3 PHASE/4 WIRE
Exterior: | Flush:
NEMA Rated: NEMA 1 | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
PANEL AC	8704	3	1 2	3	950	PANEL L
PANEL AC	8704		3 4		950	PANEL L
PANEL AC	8704	125	5 6	100	950	PANEL L
			7 8			
			9 10			
			11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
			31 32			
			33 34			
			35 36			
			37 38			
			39 40			
			41 42			

6,564 Watts + 8,244 Watts + 6,024 Watts + 5,253 25% Watts | 480 Voltage = 73 Amps Per Phase

PANEL AC
Rated Amps: 125A | MAIN BREAKER 125A | Volts: 480/277V
Interior: X | Phase / Wire: 3 PHASE/4 WIRE
Exterior: | Flush:
NEMA Rated: NEMA 1 | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
WHD048 HVCA	2147	3	1 2	3	2147	WHD048 HVCA
WHD048 HVCA	2147		3 4		2147	WHD048 HVCA
WHD048 HVCA	2147	20	5 6	20	2147	WHD048 HVCA
WHD048 HVCA	2147	3	7 8	3	2147	WHD048 HVCA
WHD048 HVCA	2147		9 10		2147	WHD048 HVCA
WHD048 HVCA	2147	20	11 12	20	2147	WHD048 HVCA
			13 14	1 20	346	EXHAUST FAN
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
			31 32			
			33 34			
			35 36			
			37 38			
			39 40			
			41 42			

8,934 Watts + 8,588 Watts + 8,588 Watts + 6,528 25% Watts | 480 Voltage = 91 Amps Per Phase

PANEL L
Rated Amps: 100A | MAIN BREAKER 100A | Volts: 480/277V
Interior: X | Phase / Wire: 3 PHASE/4 WIRE
Exterior: | Flush:
NEMA Rated: NEMA 1 | Surface: X

Description	Load	Ckt Bkr		Ckt Bkr	Load	Description
INTERIOR LIGHTING	936	1 20	1 2	1 20	335	INTERIOR LIGHTING
INTERIOR LIGHTING	936	1 20	3 4	1 20	335	INTERIOR LIGHTING
INTERIOR LIGHTING	175	1 20	5 6	1 20	132	EXTERIOR LIGHTING
			7 8			
			9 10			
			11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
			25 26			
			27 28			
			29 30			
			31 32			
			33 34			
			35 36			
			37 38			
			39 40			
			41 42			

1,271 Watts + 1,271 Watts + 307 Watts + 713 25% Watts | 480 Voltage = 9 Amps Per Phase

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE VOLTAGE	FIXTURE WATTAGE	MOUNTING	DRIVER & LED COLOR TEMPERATURE	DESCRIPTION	MANUFACTURER	CATALOG #
A1	277	39	RECESSED	LED -4000K	RECESSED 2x4 LED TROFFER	LITHONIA	2BLT4-48L-AOP-EZ1-LP840
A1E	277	39	RECESSED	LED -4000K EMERGENCY DRIVER	RECESSED 2'x4' LED TROFFER WITH INTEGRAL BATTERY BACKUP	LITHONIA	2BLT4-48L-AOP-EZ1-LP840-E10WLCP
B1	277	35	SURFACE	LED -4000K	SURFACE 1'x4' LED FIXTURE	LITHONIA	STL4-40L-EZ1-LP840
B1E	277	35	SURFACE	LED -4000K	SURFACE 1'x4' LED FIXTURE WITH INTEGRAL BATTERY BACKUP	LITHONIA	STL4-40L-EZ1-LP840-E10WLCP
W1	277	11	WALL MOUNTED	LED -4000K	EXTERIOR LED WALLPACK	LITHONIA	WPX1-LED-P1-40K-MVOLT-E14WC-DBXLD
W1E	277	11	WALL MOUNTED	LED -4000K	EXTERIOR LED WALLPACK WITH INTEGRAL EMERGENCY BATTERY PACK	LITHONIA	WPX1-LED-P1-40K-MVOLT-E14WC-DBXLD
W2	277	16	WALL MOUNTED	LED -4000K	LED WALLPACK	LITHONIA	TWR1-LED-ALO-SWW2-UVOLT-PE-DDBTXD
X1	277	3	WALL MOUNTED	LED -4600K	LED ILLUMINATED EXIT/EMERGENCY SIGN WITH 90 MIN. BATTERY BACKUP	LITHONIA	LHQM-LED-R-HO

GENERAL NOTES

1. SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
2. PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1008.3 LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4/A8.1 FOR ATTACHMENT.

PROJECT SPECIFIC (CHECK ONE):
☐ STANDARD DESIGN AS SHOWN

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PROJECT NO.:	00-0000
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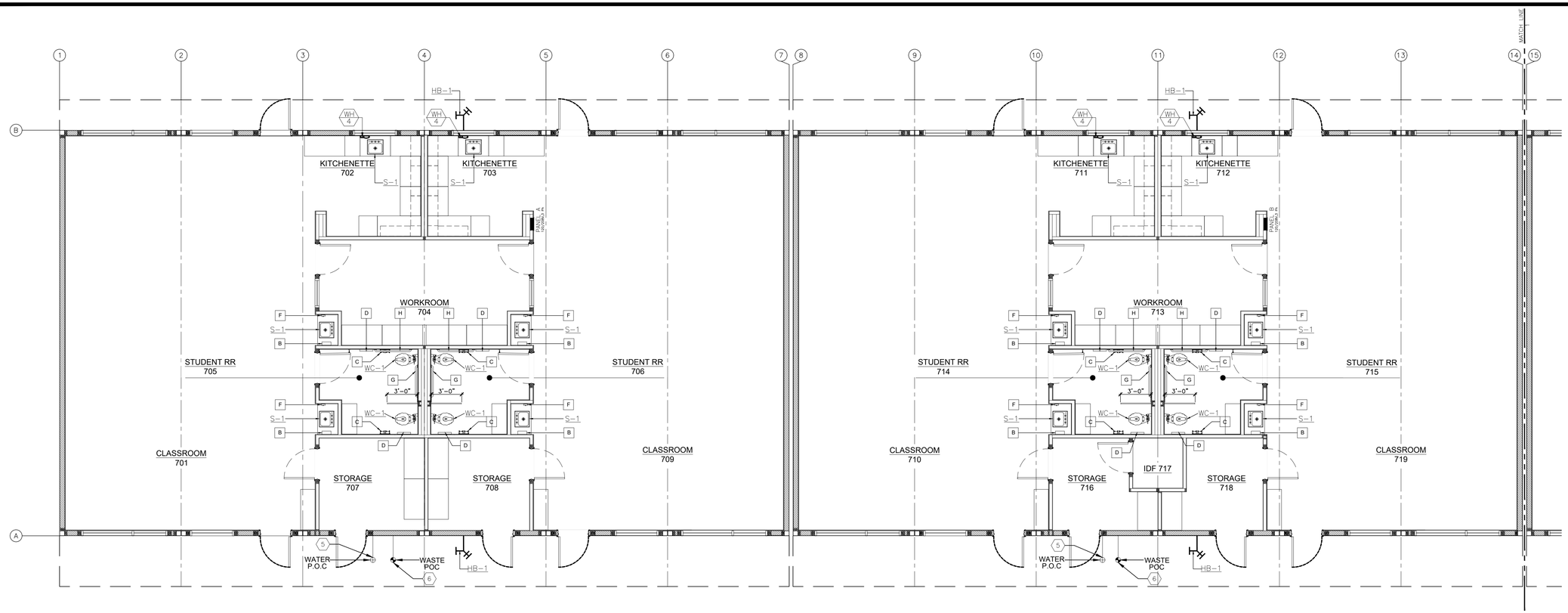
E1.5-PS



PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES 1 BUILDING 700

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

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
WC-1	JUVENILE WATER CLOSET	4"	2"	1"	-	KOHLER K-96059, JUVENILE ULTRA 1.28 GPF, FLOOR MOUNTED, 15" TOP OF SEAT HEIGHT, ELONGATED BOWL, ZURN Z6000AV-HET AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, 1.28 GPF FLUSH VALVE WITH MANUAL LEVER HANDLE, CHURCH 9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM. ALSO, PROVIDE TRAP PRIMER CONNECTION TO THE FLUSH VALVE. FLUSH VALVE LEVER HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
WC-2	WATER CLOSET	4"	2"	1"	-	KOHLER K-96057, HIGHCLIFF ULTRA 1.28 GPF, FLOOR MOUNTED, 18" TOP OF SEAT HEIGHT, ELONGATED BOWL, ZURN Z6000AV-HET AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, 1.28 GPF FLUSH VALVE WITH MANUAL LEVER HANDLE, CHURCH 9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM. ALSO, PROVIDE TRAP PRIMER CONNECTION TO THE FLUSH VALVE. FLUSH VALVE HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
L-1	LAVATORY ADA	2"	1-1/2"	1/2"	-	KOHLER K-2005-0, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTER FAUCET HOLES, CHICAGO 3400-ABCP VANDAL PROOF METERING FAUCET WITH PUSH KNOB HANDLE, AND 0.5 GPM VANDAL PROOF AERATOR, ADJUST FAUCET TIME FOR 10 SECONDS CYCLE TIME, McGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
L-2	STAFF LAVATORY ADA	2"	1-1/2"	1/2"	1/2"	KOHLER K-2005, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTERS FAUCET HOLES, AND CHICAGO 2200-4E35VPABCP SINGLE LEVER FAUCET WITH 0.35 GPM SPRAY OUTLET AND CERAMIC DISK CARTRIDGE, McGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
S-1	CLASSROOM SINK	2"	1-1/2"	1/2"	-	JUST SL-ADA-17519-A55-J, 19" X 18" X 5-1/2" DEEP BOWL SIZE, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL WITH CENTER REAR DRAIN LOCATION, SELF RIMMING SINK LEDGES, J-35GS STAINLESS STEEL BASKET STRAINER, CHICAGO 350-LHE35VPABCP COLD WATER FAUCET WITH LEFT HAND LEVER HANDLE, SWING GOOSENECK SPOUT, AND MODIFIED WITH E65VPJKABCP 1.0 GPM VANDAL PROOF OUTLET.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD #24P 3/4" INLET BRASS WALL HOSE FAUCET WITH LOCKSHIELD, NON-REMOVABLE VACUUM BREAKER, AND OPTIONAL LOOSE TEE KEY HANDLE. PROVIDE POLISHED CHROME FINISH FOR INDOORS, ROUGH CHROME FINISH FOR OUTDOORS.
HB-2	HOSE BIBB	-	-	3/4"	-	WOODFORD #Y24 STANDPIPE STYLE 3/4" INLET BRASS HOSE FAUCET WITH LOCKSHIELD, AND NON-REMOVABLE VACUUM BREAKER.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	KOHLER WHITBY K-6710 CORNER STYLE FLOOR MOUNTED, 28"x 28"x12" DEEP ENAMELED CAST IRON WITH #K-8940 RIM GUARD, #K-9146 DRAIN STRAINER, CHICAGO MODEL 897-CCP WALL MOUNT POLISHED CHROME FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER, INTEGRAL STOPS, INTEGRAL CHECK VALVES, AND WALL BRACE. FLORESTONE #MR-370 HOSE WITH HOOK, AND FLORSTONE MR-372 MOP HANGER.
WH-1	WATER HEATER	-	-	3/4"	3/4"	A.O. SMITH DEL-20 DURAPOWER COMMERCIAL ELECTRIC, 20 GALLON STORAGE CAPACITY GLASS LINED TANK, 5000 WATTS, 208V/1 PHASE, 25 GPH RECOVERY RATE AT 80 DEGREES F. TEMPERATURE RISE, AND 3/4" P&T RELIEF VALVE. DIMENSIONS: 20-1/2" DIAMETER x 22-1/4" HIGH. OPERATING WEIGHT: 240 LBS.
WH-4	TANKLESS ELECTRIC WATER HEATER	-	-	1/2"	1/2"	'EeMAX' - MODEL# SPEX2412T, INSTANT-FLOW , 0.2 GPM ELECTRICAL REQUIREMENTS: 120V, 20A. WT = 4#, OR EQUAL

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
A	MIRROR (18" X 30")	BOBRICK	B-165	SURFACE MTD.
B	PAPER TOWEL DISPENSER	BOBRICK	B-262	SURFACE MTD.
C	TOILET TISSUE DISPENSER	BOBRICK	B-6999	SURFACE MTD.
D	TOILET SEAT COVER DISPENSER	BOBRICK	B-221	SURFACE MTD.
E	SANITARY NAPKIN DISPOSAL UNIT	BOBRICK	B-270	SURFACE MTD.
F	SOAP DISPENSER	BOBRICK	B-2111	SURFACE MTD.
G	GRAB BAR, REAR	BOBRICK	B-6806 SERIES	36" LONG
H	GRAB BAR, SIDE	BOBRICK	B-6806 SERIES	42" LONG
I	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE COMBO UNIT	BOBRICK	B-3944	RECESSED

UTILITY POINTS OF CONNECTIONS

KEY NOTES

5. 2" WATER LINE P.O.C (U.O.N)
6. 4" SEWER/WASTE LINE P.O.C (U.O.N)

NOTE:
REFER TO SHEET F3.1-PS FOR P.O.C DIMENSIONS

PLUMBING LEGEND

PLUMBING FIXTURE CALL OUT (REFERENCE SHEET P0.0 FOR FIXTURE SCHEDULE)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated

AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

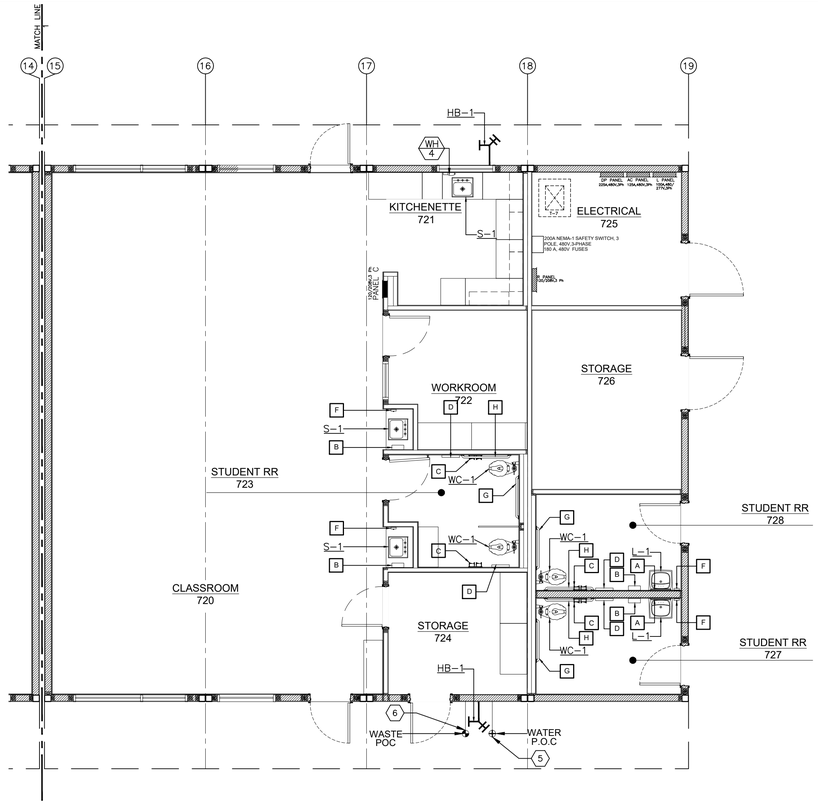
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	01.29.25

SHEET NUMBER

P1.1-PS



PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES 2 BUILDING 700

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

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
WC-1	JUVENILE WATER CLOSET	4"	2"	1"	-	KOHLER K-96059, JUVENILE ULTRA 1.28 GPF, FLOOR MOUNTED, 15" TOP OF SEAT HEIGHT, ELONGATED BOWL, ZURN Z6000AV-HET AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, 1.28 GPF FLUSH VALVE WITH MANUAL LEVER HANDLE, CHURCH 9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM. ALSO, PROVIDE TRAP PRIMER CONNECTION TO THE FLUSH VALVE. FLUSH VALVE LEVER HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
WC-2	WATER CLOSET	4"	2"	1"	-	KOHLER K-96057, HIGHCLIFF ULTRA 1.28 GPF, FLOOR MOUNTED, 16" TOP OF SEAT HEIGHT, ELONGATED BOWL, ZURN Z6000AV-HET AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, 1.28 GPF FLUSH VALVE WITH MANUAL LEVER HANDLE, CHURCH 9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM. ALSO, PROVIDE TRAP PRIMER CONNECTION TO THE FLUSH VALVE. FLUSH VALVE HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
L-1	LAVATORY ADA	2"	1-1/2"	1/2"	-	KOHLER K-2005-0, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTER FAUCET HOLES, CHICAGO 3400-ABCP VANDAL PROOF METERING FAUCET WITH PUSH KNOB HANDLE, AND 0.5 GPM VANDAL PROOF AERATOR, ADJUST FAUCET TIME FOR 10 SECONDS CYCLE TIME, McGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
L-2	STAFF LAVATORY ADA	2"	1-1/2"	1/2"	1/2"	KOHLER K-2005, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTERS FAUCET HOLES, AND CHICAGO 2200-4E39VPABCP SINGLE LEVER FAUCET WITH 0.35 GPM SPRAY OUTLET AND CERAMIC DISK CARTRIDGE, McGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
S-1	CLASSROOM SINK	2"	1-1/2"	1/2"	-	JUST SL-ADA-17519-A55-J, 19" X 18" X 5-1/2" DEEP BOWL SIZE, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL WITH CENTER REAR DRAIN LOCATION, SELF RIMMING SINK LEDGES, J-35GS STAINLESS STEEL BASKET STRAINER, CHICAGO 350-LHE35VPABCP COLD WATER FAUCET WITH LEFT HAND LEVER HANDLE, SWING GOOSENECK SPOUT, AND MODIFIED WITH E65VPJKABCP 1.0 GPM VANDAL PROOF OUTLET.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD #24P 3/4" INLET BRASS WALL HOSE FAUCET WITH LOCKSHIELD, NON-REMOVABLE VACUUM BREAKER, AND OPTIONAL LOOSE TEE KEY HANDLE. PROVIDE POLISHED CHROME FINISH FOR INDOORS, ROUGH CHROME FINISH FOR OUTDOORS.
HB-2	HOSE BIBB	-	-	3/4"	-	WOODFORD #Y24 STANDPIPE STYLE 3/4" INLET BRASS HOSE FAUCET WITH LOCKSHIELD, AND NON-REMOVABLE VACUUM BREAKER.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	KOHLER WHITBY K-6710 CORNER STYLE FLOOR MOUNTED, 28"x 28"x12" DEEP ENAMELED CAST IRON WITH #K-8940 RIM GUARD, #K-9146 DRAIN STRAINER, CHICAGO MODEL 897-CCP WALL MOUNT POLISHED CHROME FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER, INTEGRAL STOPS, INTEGRAL CHECK VALVES, AND WALL BRACE . FLORESTONE #MR-370 HOSE WITH HOOK, AND FLORSTONE MR-372 MOP HANGER.
WH-1	WATER HEATER	-	-	3/4"	3/4"	A.O. SMITH DEL-20 DURAPOWER COMMERCIAL ELECTRIC, 20 GALLON STORAGE CAPACITY GLASS LINED TANK, 5000 WATTS, 208V/1 PHASE, 25 GPH RECOVERY RATE AT 80 DEGREES F. TEMPERATURE RISE, AND 3/4" P&T RELIEF VALVE. DIMENSIONS: 20-1/2" DIAMETER x 22-1/4" HIGH. OPERATING WEIGHT: 240 LBS.
WH-4	TANKLESS ELECTRIC WATER HEATER	-	-	1/2"	1/2"	'EeMAX' - MODEL# SPEX2412T, INSTANT-FLOW , 0.2 GPM ELECTRICAL REQUIREMENTS: 120V, 20A. WT = 4#, OR EQUAL

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
A	MIRROR (18" X 30")	BOBRICK	B-165	SURFACE MTD.
B	PAPER TOWEL DISPENSER	BOBRICK	B-262	SURFACE MTD.
C	TOILET TISSUE DISPENSER	BOBRICK	B-6999	SURFACE MTD.
D	TOILET SEAT COVER DISPENSER	BOBRICK	B-221	SURFACE MTD.
E	SANITARY NAPKIN DISPOSAL UNIT	BOBRICK	B-270	SURFACE MTD.
F	SOAP DISPENSER	BOBRICK	B-2111	SURFACE MTD.
G	GRAB BAR, REAR	BOBRICK	B-6806 SERIES	36" LONG
H	GRAB BAR, SIDE	BOBRICK	B-6806 SERIES	42" LONG
I	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE COMBO UNIT	BOBRICK	B-3944	RECESSED

UTILITY POINTS OF CONNECTIONS

KEY NOTES

5. 2" WATER LINE P.O.C (U.O.N)
6. 4" SEWER/WASTE LINE P.O.C (U.O.N)

NOTE:
REFER TO SHEET P3.2-PS FOR P.O.C DIMENSIONS

PLUMBING LEGEND

PLUMBING FIXTURE CALL OUT (REFERENCE SHEET P0.0 FOR FIXTURE SCHEDULE)

GENERAL NOTES

1. INSULATE WATER LINES PER ENERGY CODE SECTION 120.3
2. ALL PLUMBING VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR IN-TAKE EQUIPMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

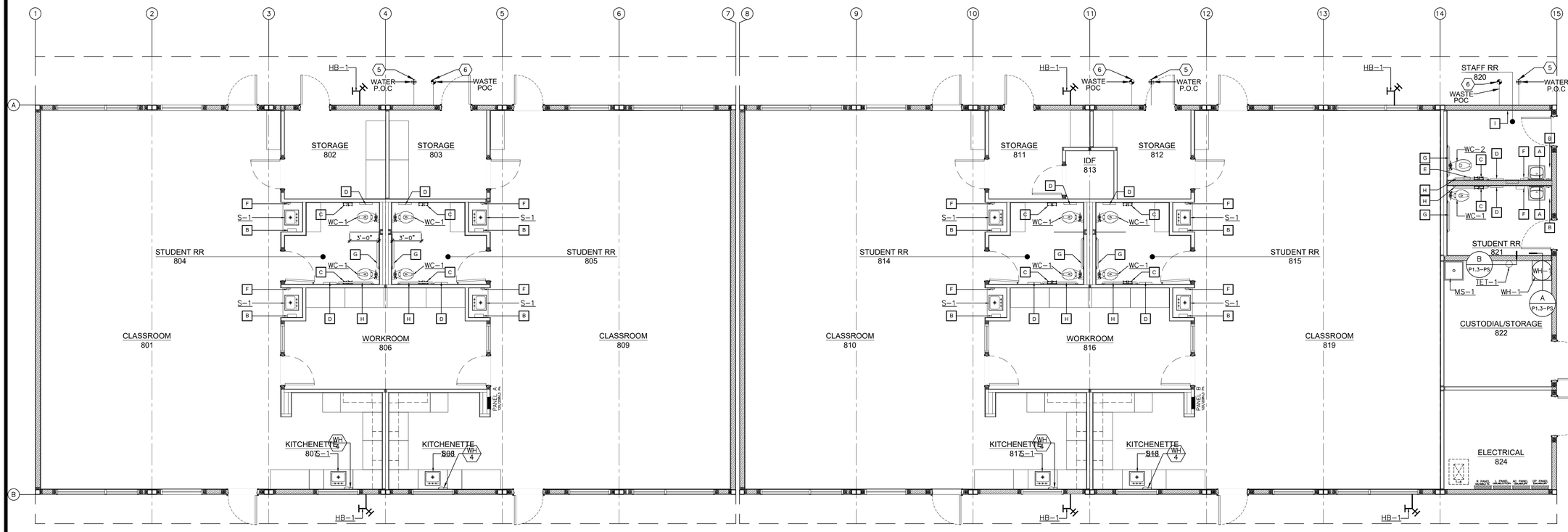
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

SHEET NUMBER

P1.2-PS



PLUMBING PLAN WITH RESTROOM ACCESSORIES BUILDING 800

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

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
WC-1	JUVENILE WATER CLOSET	4"	2"	1"	-	KOHLER K-96059, JUVENILE ULTRA 1.28 GPF, FLOOR MOUNTED, 15" TOP OF SEAT HEIGHT, ELONGATED BOWL, ZURN Z6000AV-HET AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, 1.28 GPF FLUSH VALVE WITH MANUAL LEVER HANDLE, CHURCH 9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM. ALSO, PROVIDE TRAP PRIMER CONNECTION TO THE FLUSH VALVE. FLUSH VALVE LEVER HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
WC-2	WATER CLOSET	4"	2"	1"	-	KOHLER K-96057, HIGHCLIFF ULTRA 1.28 GPF, FLOOR MOUNTED, 18" TOP OF SEAT HEIGHT, ELONGATED BOWL, ZURN Z6000AV-HET AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, 1.28 GPF FLUSH VALVE WITH MANUAL LEVER HANDLE, CHURCH 9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM. ALSO, PROVIDE TRAP PRIMER CONNECTION TO THE FLUSH VALVE. FLUSH VALVE HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
L-1	LAVATORY ADA	2"	1-1/2"	1/2"	-	KOHLER K-2005-0, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTER FAUCET HOLES, CHICAGO 3400-ABCP VANDAL PROOF METERING FAUCET WITH PUSH KNOB HANDLE, AND 0.5 GPM VANDAL PROOF AERATOR. ADJUST FAUCET TIME FOR 10 SECONDS CYCLE TIME. McGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
L-2	STAFF LAVATORY ADA	2"	1-1/2"	1/2"	1/2"	KOHLER K-2005, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTERS FAUCET HOLES, AND CHICAGO 2200-4E39VPABCP SINGLE LEVER FAUCET WITH 0.35 GPM SPRAY OUTLET AND CERAMIC DISK CARTRIDGE. McGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
S-1	CLASSROOM SINK	2"	1-1/2"	1/2"	-	JUST SL-ADA-17519-A55-J, 19" X 18" X 5-1/2" DEEP BOWL SIZE, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL WITH CENTER REAR DRAIN LOCATION, SELF RIMMING SINK LEDGES. J-35GS STAINLESS STEEL BASKET STRAINER, CHICAGO 350-LHE35VPABCP COLD WATER FAUCET WITH LEFT HAND LEVER HANDLE, SWING GOOSENECK SPOUT, AND MODIFIED WITH E65VPJKABCP 1.0 GPM VANDAL PROOF OUTLET.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD #24P 3/4" INLET BRASS WALL HOSE FAUCET WITH LOCKSHIELD, NON-REMOVABLE VACUUM BREAKER, AND OPTIONAL LOOSE TEE KEY HANDLE. PROVIDE POLISHED CHROME FINISH FOR INDOORS, ROUGH CHROME FINISH FOR OUTDOORS.
HB-2	HOSE BIBB	-	-	3/4"	-	WOODFORD #Y24 STANDPIPE STYLE 3/4" INLET BRASS HOSE FAUCET WITH LOCKSHIELD, AND NON-REMOVABLE VACUUM BREAKER.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	KOHLER WHITBY K-6710 CORNER STYLE FLOOR MOUNTED, 28"x 28"x12" DEEP ENAMELED CAST IRON WITH #K-8940 RIM GUARD, #K-9146 DRAIN STRAINER, CHICAGO MODEL 897-CCP WALL MOUNT POLISHED CHROME FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER, INTEGRAL STOPS, INTEGRAL CHECK VALVES, AND WALL BRACE. FLORESTONE #MR-370 HOSE WITH HOOK, AND FLORSTONE MR-372 MOP HANGER.
WH-1	WATER HEATER	-	-	3/4"	3/4"	A.O. SMITH DEL-20 DURAPOWER COMMERCIAL ELECTRIC, 20 GALLON STORAGE CAPACITY GLASS LINED TANK, 5000 WATTS, 208V/1 PHASE, 25 GPH RECOVERY RATE AT 80 DEGREES F. TEMPERATURE RISE, AND 3/4" P&T RELIEF VALVE. DIMENSIONS: 20-1/2" DIAMETER x 22-1/4" HIGH. OPERATING WEIGHT: 240 LBS.
TET-1	THERMAL EXPANSION TANK	-	-	1/2"	-	WILKINS XT-8, 2.1 GALLON TANK VOLUME, 1.0 GALLON ACCEPTANCE VOLUME, ASME RATED EXPANSION TANK WITH IN-LINE CONNECTIONS, LEAD FREE, AND FDA APPROVED BLADDER FOR POTABLE WATER USE.
WH-4	TANKLESS ELECTRIC WATER HEATER	-	-	1/2"	1/2"	'EeMAX' - MODEL# SPEX2412T, INSTANT-FLOW , 0.2 GPM ELECTRICAL REQUIREMENTS: 120V, 20A. WT = 4#, OR EQUAL

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
A	MIRROR (18" X 30")	BOBRICK	B-165	SURFACE MTD.
B	PAPER TOWEL DISPENSER	BOBRICK	B-262	SURFACE MTD.
C	TOILET TISSUE DISPENSER	BOBRICK	B-6999	SURFACE MTD.
D	TOILET SEAT COVER DISPENSER	BOBRICK	B-221	SURFACE MTD.
E	SANITARY NAPKIN DISPOSAL UNIT	BOBRICK	B-270	SURFACE MTD.
F	SOAP DISPENSER	BOBRICK	B-2111	SURFACE MTD.
G	GRAB BAR, REAR	BOBRICK	B-6806 SERIES	36" LONG
H	GRAB BAR, SIDE	BOBRICK	B-6806 SERIES	42" LONG
I	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE COMBO UNIT	BOBRICK	B-3944	RECESSED

PLUMBING LEGEND

- COLD WATER
- WASTE
- VENT
- CLEAN OUT
- WALL CLEAN OUT (WCO)
- VENT THROUGH ROOF (VTR)
- FLOOR CLEAN OUT (FCO)
- WATER POC
- WASTE POC
- PIPE UP OR PIPE DOWN
- PLUMBING FIXTURE CALL OUT (REFERENCE SHEET P0.0 FOR FIXTURE SCHEDULE)

GENERAL NOTES

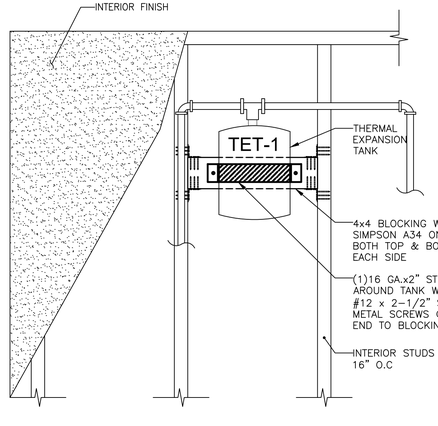
1. INSULATE WATER LINES PER ENERGY CODE SECTION 120.3
2. ALL PLUMBING VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR IN-TAKE EQUIPMENT

UTILITY POINTS OF CONNECTIONS

KEY NOTES

5. 2" WATER LINE P.O.C (U.O.N)
6. 4" SEWER/WASTE LINE P.O.C (U.O.N)

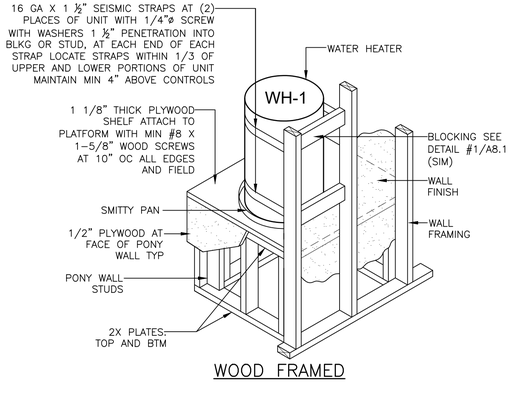
NOTE:
REFER TO SHEET F3.3-PS FOR P.O.C DIMENSIONS



THERMAL EXPANSON TANK ATTACHMENT

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

B



WOOD FRAMED

NOTES:
1. 30" MAX PLATFORM HEIGHT
2. 25" SQ PLATFORM SUPPORTS UP TO 20 GAL WATER HEATER
3. 32" SQ PLATFORM SUPPORTS UP TO 80 GAL WATER HEATER. SEE NOTE #4 BELOW FOR JOIST SPACING UNDER PLATFORM
4. FLOOR JOIST SPACING AT WATER HEATER AREA (40 GAL AND GREATER) SHALL BE AT 16" OC MAX
5. SILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED
6. PLATFORM SILL PLATE ATTACHMENT: FOR CONCRETE FLOORS USE 0.157"ø X-U 72 'HILTI' SHOT PIN AT 24" OC MAX PER ICC REPORT #ESR-2269 MIN 1" EMBEDMENT ADD BLOCKING BELOW PONY WALL.

WATER HEATER PLATFORM & STRAP DETAIL

WATER HEATER

A

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

PLUMBING FIXTURES PLAN WITH RESTROOM ACCESSORIES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

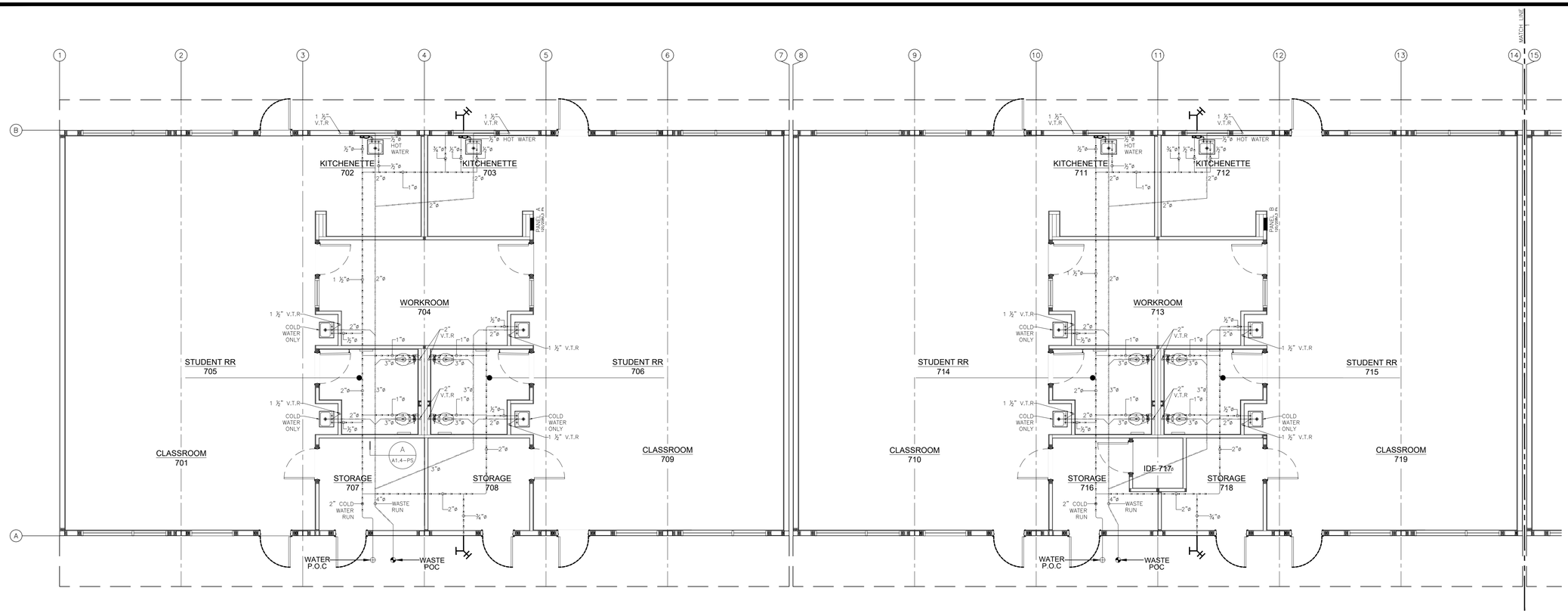
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	02.13.25

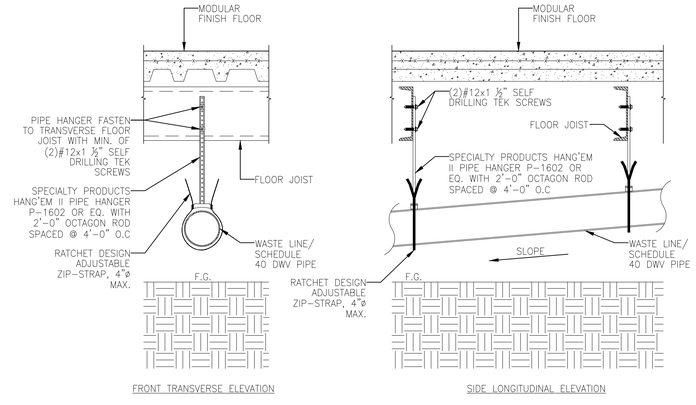
SHEET NUMBER

P1.3-PS



PLUMBING PLAN 1 BUILDING 700

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



FRONT TRANSVERSE ELEVATION

SIDE LONGITUDINAL ELEVATION

WASTE LINE BRACING

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

A

PLUMBING LEGEND

—CW—CW—CW—	COLD WATER
—DWV—DWV—DWV—	WASTE
—DWV—DWV—DWV—	VENT
	CLEAN OUT
	WALL CLEAN OUT (WCO)
	VENT THROUGH ROOF (VTR)
	FLOOR CLEAN OUT (FCO)
	WATER POC
	WASTE POC
	PIPE UP OR PIPE DOWN

GENERAL NOTES

1. INSULATE WATER LINES PER ENERGY CODE SECTION 120.3
2. ALL PLUMBING VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR IN-TAKE EQUIPMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

PLUMBING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

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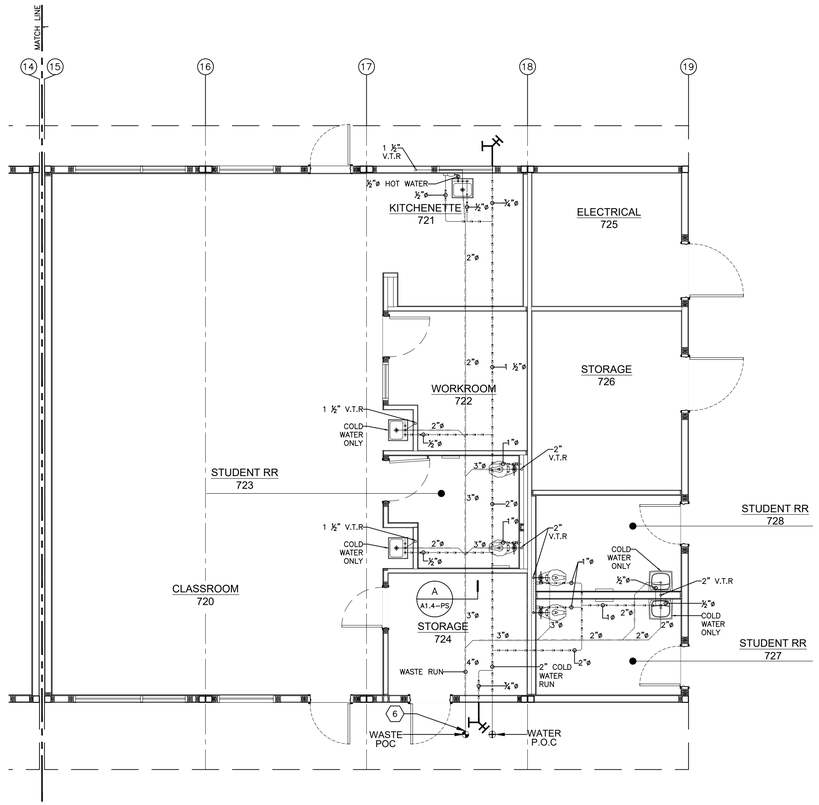
SHEET NUMBER

P1.4-PS



PLUMBING PLAN 2 BUILDING 700

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

PLUMBING LEGEND

—CW—CW—CW—	COLD WATER
—DWV—DWV—DWV—	WASTE
—DWV—DWV—DWV—	VENT
	CLEAN OUT
	WALL CLEAN OUT (WCO)
	VENT THROUGH ROOF (VTR)
	FLOOR CLEAN OUT (FCO)
	WATER POC
	WASTE POC
•	PIPE UP OR PIPE DOWN

GENERAL NOTES

1. INSULATE WATER LINES PER ENERGY CODE SECTION 120.3
2. ALL PLUMBING VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR IN-TAKE EQUIPMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

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SS ☑ FLS ☑ ACS ☑
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar

FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

PLUMBING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — No. S 6459 — EXP. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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3 -
4 -

PROJECT NO.:	00-0000
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DATE:	02.13.25

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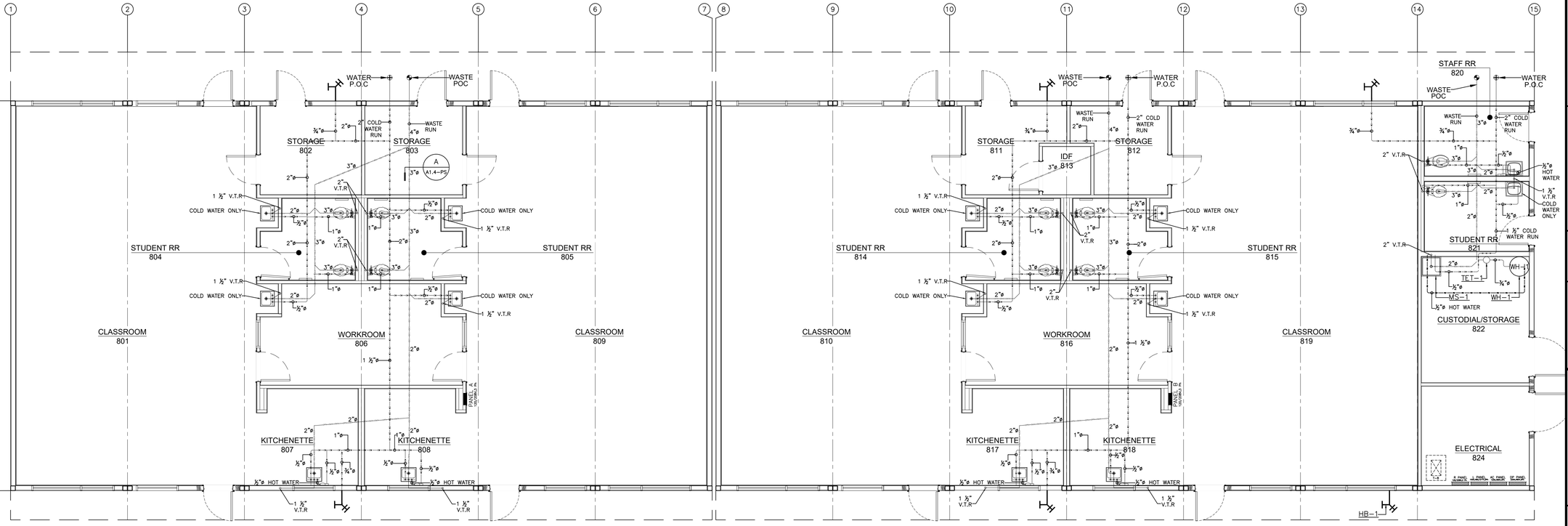

PLUMBING PLAN BUILDING 800

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

PLUMBING LEGEND

- COLD WATER
- WASTE
- VENT
- CLEAN OUT
- WALL CLEAN OUT (WCO)
- VENT THROUGH ROOF (VTR)
- FLOOR CLEAN OUT (FCO)
- WATER POC
- WASTE POC
- PIPE UP OR PIPE DOWN

GENERAL NOTES

1. INSULATE WATER LINES PER ENERGY CODE SECTION 120.3
2. ALL PLUMBING VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR IN-TAKE EQUIPMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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PROJECT NAME:

FRANKLIN ELEMENTARY SCHOOL
Watch Us Soar
FRANKLIN ELEMENTARY SCHOOL
2736 FRANKLIN RD, MERCED
CA. 95348

SHEET TITLE:

PLUMBING PLAN

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

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PROJECT NO.:	00-0000
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DATE:	02.13.25

SHEET NUMBER

P1.6-PS

ALLOWED CLIMATE ZONES

ALLOWED CLIMATE ZONES: ALL CLIMATE ZONES

OPERATIONS & MAINTENANCE:

BUILDING MANUFACTURE 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 MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

DRAWING SYMBOLS

- 2"x4" WOOD STUD OR 3 1/2" STEEL STUD
- 2"x6" WOOD STUD OR 5 1/2" STEEL STUD
- 2"x8" WOOD STUD OR 8" STEEL STUD
- 1 HR RATED (DARK LINE THROUGH SYMBOL)
- * STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES. SEE INTERIOR WALL SCHEDULE ON SHEET A0.2
- INDICATES DOOR TYPE
- INDICATES WINDOW TYPE
- KEY NOTE SYMBOL
- 1 / 2 / 3 / 4 INDICATES INTERIOR ELEVATION ORIENTATION
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES EXTERIOR ELEVATION #
- INDICATES SHEET #
- 5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MAX. DOOR SWING ENCROACHMENT
- 48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE
- INDICATES ROOM NAME
- INDICATES ROOM NUMBER
- 60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.
- WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET
- 60"x56" AT WATER CLOSET WITH 60"x48" CLEAR IN FRONT OF WATER CLOSET
- * GRID LINE NUMBER OR LETTER

APPLICABLE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) ...2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2019 EDITION
NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION.....2018 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2022 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES...2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)....2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2005 (R2014)
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.....1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 1, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

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 (CEC), 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 MARSHALL 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.

ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

WHEN THE PRE-CHECK BUILDING IS SITE ADAPTED, THE BUILDING SHALL BE ORIENTED PER SOLAR READY DIAGRAM OR THE SITED PC SHALL HAVE A SOLAR ZONE ON ANOTHER BUILDING OR ON COVER PARKING INSTALLED WITHIN 250 FEET OF THE SITED PC WITH A SOLAR ZONE TOTAL AREA NO LESS THAN 15 PERCENT OF THE PC'S TOTAL ROOF AREA. REFER TO ENERGY CODE SECTION 110.10 (b) 1B

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MANUFACTURED RELOCATABLE MODULAR BUILDINGS
PC 02-121341 (FORMERLY 02-120340)
24'X40' THRU 120'X40'
2022 CBC

DRAWING INDEX

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A0.1	SPECIFICATIONS AND NOTES
A0.1a	SPECIFICATIONS
A0.2	OPTIONS LIST
A0.3	FINISH, DOOR & WINDOW SCHEDULES
A0.4	SIGNAGE SPECIFICATIONS AND ACCESSIBILITY
A0.5	MULTIPLE FLOOR PLANS 60'x40'-120'x40'
A0.6	CAL GREEN SPECS
A0.7	STC CONSTRUCTION DETAILS (INTERIOR WALLS)
A0.8	DSA DOCUMENTS
A0.9PV	SOLAR PV REQUIREMENTS 48' TO 120' X 40'
A0.9SR	SOLAR-READY TYPICAL ROOF PLAN 24' & 36' X 40'
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A0.20-c	ENERGY FORMS ZONE 14 WORST CASE
A0.20-d	ENERGY FORMS ZONE 14 WORST CASE
A0.20-e	ENERGY FORMS ZONE 14 WORST CASE
A0.21-a	ENERGY FORMS ZONE 15 WORST CASE
A0.21-b	ENERGY FORMS ZONE 15 WORST CASE
A0.21-c	ENERGY FORMS ZONE 15 WORST CASE
A0.21-d	ENERGY FORMS ZONE 15 WORST CASE
A0.21-e	ENERGY FORMS ZONE 15 WORST CASE
A0.22-a	ENERGY FORMS ZONE 16 WORST CASE
A0.22-b	ENERGY FORMS ZONE 16 WORST CASE
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A0.25-a	T-24 COMPLIANCE FORMS
A0.25-b	T-24 COMPLIANCE FORMS
A0.26-a	T-24 COMPLIANCE FORMS
A0.26-b	T-24 COMPLIANCE FORMS
A0.27-a	T-24 COMPLIANCE FORMS
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A0.28-a	T-24 COMPLIANCE FORMS
A0.28-b	T-24 COMPLIANCE FORMS
A0.29	T-24 COMPLIANCE FORMS
A0.30-a	ENERGY FORMS 24' x 40' WORST CASE
A0.30-b	ENERGY FORMS 24' x 40' WORST CASE
A0.30-c	ENERGY FORMS 24' x 40' WORST CASE
A0.30-d	ENERGY FORMS 24' x 40' WORST CASE
A0.30-e	ENERGY FORMS 24' x 40' WORST CASE
A0.31-a	ENERGY FORMS 36' x 40' WORST CASE
A0.31-b	ENERGY FORMS 36' x 40' WORST CASE
A0.31-c	ENERGY FORMS 36' x 40' WORST CASE
A0.31-d	ENERGY FORMS 36' x 40' WORST CASE
A0.31-e	ENERGY FORMS 36' x 40' WORST CASE

SHEET NO.	ARCHITECTURAL CONTINUED
A0.32-a	ENERGY FORMS 48' x 40' WORST CASE
A0.32-b	ENERGY FORMS 48' x 40' WORST CASE
A0.32-c	ENERGY FORMS 48' x 40' WORST CASE
A0.32-d	ENERGY FORMS 48' x 40' WORST CASE
A0.32-e	ENERGY FORMS 48' x 40' WORST CASE
A0.33-a	ENERGY FORMS 60' x 40' WORST CASE
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A0.35-b	ENERGY FORMS 84' x 40' WORST CASE
A0.35-c	ENERGY FORMS 84' x 40' WORST CASE
A0.35-d	ENERGY FORMS 84' x 40' WORST CASE
A0.35-e	ENERGY FORMS 84' x 40' WORST CASE
A0.36-a	ENERGY FORMS 96' x 40' WORST CASE
A0.36-b	ENERGY FORMS 96' x 40' WORST CASE
A0.36-c	ENERGY FORMS 96' x 40' WORST CASE
A0.36-d	ENERGY FORMS 96' x 40' WORST CASE
A0.36-e	ENERGY FORMS 96' x 40' WORST CASE
A0.37-a	ENERGY FORMS 108' x 40' WORST CASE
A0.37-b	ENERGY FORMS 108' x 40' WORST CASE
A0.37-c	ENERGY FORMS 108' x 40' WORST CASE
A0.37-d	ENERGY FORMS 108' x 40' WORST CASE
A0.37-e	ENERGY FORMS 108' x 40' WORST CASE
A0.38-a	ENERGY FORMS 120' x 40' WORST CASE
A0.38-b	ENERGY FORMS 120' x 40' WORST CASE
A0.38-c	ENERGY FORMS 120' x 40' WORST CASE
A0.38-d	ENERGY FORMS 120' x 40' WORST CASE
A0.38-e	ENERGY FORMS 120' x 40' WORST CASE
A1.1	FLOOR PLAN 24'x40'
A1.2	FLOOR PLAN 36'x40'
A1.3	FLOOR PLAN 48'x40'
A2.0	REFLECTED CEILING DETAILS
A2.1	REFLECTED CEILING PLAN 24'x40'
A2.2	REFLECTED CEILING PLAN 36'x40'
A2.3	REFLECTED CEILING PLAN 48'x40'
A3.1	ROOF DETAILS-22 GA METAL
A3.2	ROOF PLAN MONO & DUAL SLOPE-22 GA METAL
A3.5	ROOF DETAILS-TPO
A3.6	ROOF PLAN MONO & DUAL SLOPE-TPO
A3.6P	ROOF DETAILS-TPO PARAPET
A3.6PD	ROOF PLAN TPO WITH PARAPET DRAIN OPTION
A3.6PS	ROOF PLAN TPO WITH PARAPET SCUPPER OPTION
A4.1	INTERIOR ELEVATIONS 24'x40'
A4.2	INTERIOR ELEVATIONS 36'x40'
A4.3	INTERIOR ELEVATIONS 48'x40'

SHEET NO.	STRUCTURAL
A5.1-A	EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'A' (RIGHT HAND)
A5.1-AP	EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'A' (RIGHT HAND) PARAPET
A5.1-B	EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'B' (LEFT HAND)
A5.1-BP	EXTERIOR ELEVATIONS 24'x40'-WOOD SIDING OPTION 'B' (LEFT HAND) PARAPET
A5.2	EXTERIOR ELEVATIONS 36'x40'-WOOD SIDING
A5.2P	EXTERIOR ELEVATIONS 36'x40'-WOOD SIDING PARAPET
A5.3	EXTERIOR ELEVATIONS 48'x40'-WOOD SIDING
A5.3P	EXTERIOR ELEVATIONS 48'x40'-WOOD SIDING PARAPET
A5.4-A	EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'A' (RIGHT HAND)
A5.4-AP	EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'A' (RIGHT HAND) PARAPET
A5.4-B	EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'B' (LEFT HAND)
A5.4-BP	EXTERIOR ELEVATIONS 24'x40'-STUCCO OPTION 'B' (LEFT HAND) PARAPET
A5.5	EXTERIOR ELEVATIONS 36'x40'-STUCCO OPTION
A5.5P	EXTERIOR ELEVATIONS 36'x40'-STUCCO OPTION PARAPET
A5.6	EXTERIOR ELEVATIONS 48'x40'-STUCCO OPTION
A5.6P	EXTERIOR ELEVATIONS 48'x40'-STUCCO OPTION PARAPET
A8.0	ARCHITECTURAL DETAILS WOOD STUD OPTION
A8.1	ARCHITECTURAL DETAILS
A8.2	SHEET METAL AND FLASHING DETAILS
A8.3	ARCHITECTURAL DETAILS METAL STUD OPTION
A8.4	DETERIORATION PROTECTION PLYWOOD SIDING CONC FLOOR - WD STUDS
A8.5	DETERIORATION PROTECTION STUCCO EXTERIOR FINISH CONC FLOOR - WD STUDS
A8.6	DETERIORATION PROTECTION PLYWOOD SIDING WOOD FLOOR - WD STUDS
A8.7	DETERIORATION PROTECTION STUCCO EXTERIOR FINISH WOOD FLOOR - WD STUDS
A8.8	DETERIORATION PROTECTION PLYWOOD SIDING CONC FLOOR - STL STUDS
A8.9	DETERIORATION PROTECTION STUCCO EXTERIOR FINISH CONC FLOOR - STL STUDS
A8.10	DETERIORATION PROTECTION PLYWOOD SIDING WOOD FLOOR - STL STUDS
A8.11	DETERIORATION PROTECTION STUCCO EXTERIOR FINISH WOOD FLOOR - STL STUDS
A9.0	FIRE RATED ASSEMBLIES
A9.1	FIRE RATED DETAILS
A10.0	RESTROOM DETAILS
A10.1a	RESTROOM ACCESSIBILITY DETAILS ADULT
A10.1b	RESTROOM ACCESSIBILITY DETAILS AGES 9 THRU 12
A10.1c	RESTROOM ACCESSIBILITY DETAILS AGES 5 THRU 8
A10.1d	RESTROOM ACCESSIBILITY DETAILS AGES 3 AND 4
A11.0	SOLATUBE OPTION
A12.0a	24'x40' RESTROOM OPTION & ACCESSORY PLAN ADULT
A12.0b	24'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 9 THRU 12
A12.0c	24'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 5 THRU 8
A12.0d	24'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 3 AND 4
A12.1a	36'x40' RESTROOM OPTION & ACCESSORY PLAN ADULT
A12.1b	36'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 9 THRU 12
A12.1c	36'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 5 THRU 8
A12.1d	36'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 3 AND 4
A12.2a	48'x40' RESTROOM OPTION & ACCESSORY PLAN ADULT
A12.2b	48'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 9 THRU 12
A12.2c	48'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 5 THRU 8
A12.2d	48'x40' RESTROOM OPTION & ACCESSORY PLAN AGES 3 AND 4
	FOUNDATION
F0.0	GENERAL DETAILS
F1.0	WOOD PAD FOUNDATION DETAILS
F1.1	WOOD PAD FOUNDATION PLAN-PLYWOOD FLOOR
F1.2	WOOD PAD FOUNDATION PLAN-CONCRETE FLOOR
F2.0	ABOVE GRADE CONCRETE FOUNDATION DETAILS
F2.1	ABOVE GRADE CONCRETE FOUNDATION PLAN
F3.0	FLUSH TO GRADE CONCRETE FOUNDATION DETAILS
F3.1	FLUSH TO GRADE CONCRETE FOUNDATION PLAN

SHEET NO.	STRUCTURAL
S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
S0.0b	STRUCTURAL NOTES AND SPECIFICATIONS
S0.1	BUILDING SECTIONS PLYWOOD FLOOR
S0.1P	BUILDING SECTIONS, PARAPET FRAMING AND DETAILS
S0.2	BUILDING SECTIONS CONCRETE FLOOR
S0.3	TYPICAL STRUCTURAL DETAILS
S1.0	FLOOR FRAMING DETAILS-PLYWOOD & CONCRETE
S1.1	FLOOR FRAMING PLAN-PLYWOOD
S1.2	FLOOR FRAMING PLAN-CONCRETE
S2.0	ROOF FRAMING DETAILS
S2.1	ROOF TRUSS AND DETAILS
S2.2	ROOF FRAMING PLAN-PLYWOOD SHEATHING
S2.2a	MECHANICAL SCREEN PLAN
S2.2PD	PARAPET ROOF PLAN DUAL SLOPE
S2.2PM	PARAPET ROOF PLAN MONO SLOPE
S3.0	WALL FRAMING DETAILS-WOOD STUD
S3.1	WALL FRAMING DETAILS-STEEL STUD
S3.2	WALL FRAMING ELEVATIONS
S4.0	ALLOWABLE HEADER PENETRATION
	MECHANICAL
M0.0	MECHANICAL DETAILS
M0.1	MECHANICAL SCHEDULES
M1.1	MECHANICAL PLAN WALL MOUNT 24'x40'
M1.2	MECHANICAL PLAN WALL MOUNT 36'x40'
M1.3	MECHANICAL PLAN WALL MOUNT 48'x40'
M2.1	MECHANICAL PLAN ROOF MOUNT 24'x40'
M2.2	HVAC ROOF MOUNT 24'x40'
M2.3	MECHANICAL PLAN ROOF MOUNT 36'x40'
M2.4	HVAC ROOF MOUNT 36'x40'
M2.5	MECHANICAL PLAN ROOF MOUNT 48'x40'
M2.6	HVAC ROOF MOUNT 48'x40'
	ELECTRICAL
E0.0	ELECTRICAL DETAILS
E1.0	ELECTRICAL PLAN 24'x40' (WALL MOUNTED HVAC)
E1.1	ELECTRICAL PLAN 24'x40' (ROOF MOUNTED HVAC)
E2.0	ELECTRICAL PLAN 36'x40' (WALL MOUNTED HVAC)
E2.1	ELECTRICAL PLAN 36'x40' (ROOF MOUNTED HVAC)
E3.0	ELECTRICAL PLAN 48'x40' (WALL MOUNTED HVAC)
E3.1	ELECTRICAL PLAN 48'x40' (ROOF MOUNTED HVAC)
E4.0DL	DAYLIT ZONE FLOOR PLANS 24'-48'x40'
E4.1DL	DAYLIT ZONE FLOOR PLANS 60'-120'x40'
E5.0	SOLATUBE WIRING AND DAYLIGHT HARVESTING
	PLUMBING
P0.0	PLUMBING SCHEDULE AND DETAILS
P1.0	PLUMBING PLAN 24'X40'
P2.0	PLUMBING PLAN 36'X40'
P3.0	PLUMBING PLAN 48'X40'
	RAMP, LANDING AND STAIR
R0.0	RAMP & LANDING DETAILS
R1.0	RAMP & LANDING PLAN (ATTACHED HANDRAIL)
R2.0	RAMP & LANDING PLAN (FREE STANDING HANDRAIL)
R3.0	RAMP & LANDING PLAN (OFFSET RAMP)
R4.0	RAMP & LANDING PLAN (COMMON LANDING)
R5.0	STAIR & LANDING PLAN & DETAILS

SHEET COUNT: 214

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

SHEET TITLE:

TITLE SHEET

REFER TO A0.0-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMEL No. S 4407 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.0

ABBREVIATIONS

AB: Anchor Bolt
ABV: Above
AC: Air Conditioning, Alternating Current
ADA: Americans with Disabilities Act of 1992
ADD: Addendum; Addition
ADDL: Additional
ADJ: Adjust, Adjustable, Adjacent
AFF: Above Finished Floor
AFG: Above Finish Grade
AIA: American Institute of Architects
ALT: Alternate, Alteration; Altitude
ALUM: Aluminum
AMP: Ampere, Ampacity
AMT: Amount
ANCH: Anchor, Anchorage
ANOD: Anodized
APPROX: Approximate
APRVD: Approved
ARCH: Architect, Architectural
ASC: Above Suspended Ceiling
ASCE: American Society of Civil Engineers
ASME: American Society of Mechanical Engineers
ASSOC: Association; Associate
ASTM: American Society for Testing and Materials
AUTO: Automatic
AVG: Average

BD: Board
BEL: Below
BETW: Between
BKR: Breaker
BLDG: Building
BLK: Block
BLKG: Blocking
BM: Beam
BOT: Bottom
BP: Base Plate
BRKR: Breaker
BS: Both Sides
BTU: British Thermal Units
BTUH: British Thermal Units per Hour

C/C: Center to Center
CAB: Cabinet
CHAN: Channel
CI: Cast Iron
CIR: Circle, Circular, Circuit
CJ: Control Joint
CL: Centerline
CLR: Clear
CNTR: Center, Counter
CO: Cleanout, Conduit
COL: Column
CONC: Concrete
CONN: Connection
CONST: Construction
CONT: Continuous, Continue, Control
CRS: Cold Rolled Steel

D: Deep, Depth
DBL: Double
DET: Detail
DF: Douglas Fir
DIA: Diameter
DIM: Dimension
DISL: Disposal
DISP: Dispenser
DIV: Division
DL: Dead Load
DN: Down
DWG: Drawing
DWGS: Drawings

E: East
(E): Existing
EA: Each
EJ: Expansion Joint
EL: Elevation, Elevator
ELEC: Electrical
ELEV: Elevator, Elevation
EN: End Nail
EPDM: Ethylene Propylene Diene Monomer
EQ: Equal
EXT: Exterior

FE: Fire Extinguisher
FF: Finished Floor
FG: Finished Grade
FIN: Finish, finished
FLR: Floor
FND: Foundation
FOC: Face of Concrete
FOF: Face of Finish
FOS: Face of Studs, Face of Sill Plate
FT: Foot, Feet, Fully Tempered
FTG: Footing, Fitting

GA: Gauge, Gage
GAL: Gallon
GALV: Galvanized
GFCI: Ground Fault Circuit Interrupted
GFI: Ground Fault Interrupted
GI: Galvanized Iron
GND: Ground

H: High
HDR: Header
HF: Hem Fir
HR: Hour
HT: Height
HVAC: Heating, Ventilating & Air Conditioning

ID: Inside Diameter
IN: Inch
INFO: Information
INT: Interior
INV: Invert

J-BOX: Junction Box
JST: Joist
JT: Joint

KW: Kilowatt

L: Length
LB: Pound (weight), Lag Bolt
LH: Left Hand
LL: Live Load
LT: Light
LWC: Light Weight Concrete

MAX: Maximum
MECH: Mechanical
MFD: Manufactured
MFG: Manufacturer, Manufacturing
MFR: Manufacture, Manufacturer
MIL: One Thousandth of and Inch
MIN: Minimum
MIR: Mirror
MISC: Miscellaneous
MOD: Module
MT: Mount, Mounted
MTL: Material, Metal

(N): New
NEC: National Electrical Code
NIC: Not In Contract
NTS: Not To Scale

O/O: Outside to Outside
OC: On Center
OD: Outside Diameter
OH: Overhang
OPNG: Opening
OPP: Opposite

PC: Piece, Pre-Checked
PH: Phase
PL: Plate
PLYWD: Plywood
PLUMB: Plumbing
PREFAB: Prefabricated
PSF: Pounds per square foot
PSI: Pounds per square inch
PT: Pressure Treaded
PVC: Polyvinyl Chloride

QTY: Quantity

RCP: Reflected Ceiling Plan
REBAR: Reinforcing Bar
RECEP: Receptacle
REF: Refer, Reference, Refrigerator
REQ: Require, Required
REV: Reverse, Revise, Revision
RF: Roof
RGH: Rough
RH: Right Hand
RO: Rough Opening
RT: Right

S: South
S/S: Side By Side
SF: Square Foot, Square Feet
SHT: Sheet
SHTHG: Sheathing
SIM: Similar
SLV: Sleeve
SPEC: Specification, Specifications
SQ: Square
SS: Stainless Steel
ST: Steel Tube
STD: Standard
STIFF: Stiffener
STL: Steel
STRUCT: Structural

T&B: Top and Bottom
T&G: Tongue & Groove
TEMP: Temporary, Tempered, Temperature
THK: Thick, Thickness
THRU: Through
TN: Toe Nail
TPO: Thermo Plastic Olefin
TST: Top of Steel
TSTAT: Thermostat
TYP: Typical

UL: Underwriters' Laboratories
UNO: Unless Noted Otherwise
UON: Unless Otherwise Noted
USG: United States Gypsum Company

V: Volt
VERT: Vertical
VTR: Vent Through Roof

W: West, Width, Wide, Watt
W/: With
W/O: Without
WD: Wood
WP: Waterproof, Weatherproof
WR: Water Resistant, Water Repellent
WT: Weight

BUILDING DATA

TYPE OF CONSTRUCTION: V-B

OCCUPANCY: E

OCCUPANCY LOAD FACTOR: 20 SF/OCCUPANT

NO. OF STORIES: 1

BUILDING AREA: ~~24'x40'=960 SF, 36'x40'=1,440 SF,~~ 48'x40'=1,920 SF, ~~60'x40'=2,400 SF,~~ 72'x40'=2,880 SF, 84'x40'=3,360 SF, ~~96'x40'=3,840 SF, 108'x40'=4,320 SF, 120'x40'=4,800 SF~~

ALLOWABLE AREA: 9,500 SF

MODULES: 12'x40'

STRUCTURAL DATA

STRUCTURAL DESIGN: ORDINARY MOMENT FRAME WITH CLEAR SPAN TRUSS

FOUNDATION: ~~WOOD PAD: 50, 50+15, 100 & 125 PSF~~
~~ABOVE GRADE CONCRETE: 50, 50+15, 100 & 125 PSF~~
FLUSH TO GRADE CONCRETE: ~~50,~~ 50+15, ~~100 & 125 PSF~~

SEISMIC SEPARATION: 4 1/2" MIN FROM OTHER EXISTING OR FUTURE BUILDINGS MEASURED FROM ITS FARTHEST PROJECTION

THIS PC (OR BLDG) IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM

ALLOWABLE SOIL BEARING: ~~WOOD FOUNDATION: 1000 PSF~~
CONCRETE FOUNDATION: 1500 PSF

NOTE: NO INCREASE IS ALLOWED FOR SHORT TERM LOADING

FIRE LIFE SAFETY

ALLOWABLE USES: THIS PC (OR BLDG) IS NOT APPROVED FOR 'A' OCCUPANCY

AUTOMATIC FIRE SPRINKLER SYSTEM: NOT REQUIRED [✓] / REQUIRED [ ]

(WHEN APPLICABLE) AUTOMATIC FIRE SPRINKLER SYSTEMS ARE PERMITTED TO BE HYDRAULICALLY CALCULATED, PER NFPA 13, TO MEET THE WATER SUPPLY AVAILABLE AT EACH SITE. PLANS FOR SUCH SYSTEMS MAY BE SUBMITTED AS A PLAN REVIEW SUBMITTAL, AND MAY NOT BE REVIEWED UTILIZING THE "OVER THE COUNTER" PROCESS. A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL PACKAGE MUST BE PROVIDED AT THE TIME OF THE PLAN REVIEW SUBMITTAL.

THE ARCHITECT OF RECORD (DESIGNER) OR THE DIVISION OF THE STATE ARCHITECT WILL DETERMINE THE USE OF A FIRE SUPPRESSION SYSTEM UNLESS REQUIRED OTHERWISE BY THE TYPE OF CONSTRUCTION LISTED ON THE BUILDING DATA.

ALL GROUP 'E' OCCUPANCY BUILDING GREATER THAN 12,000 SF SHALL BE FIRE SPRINKLED PER CBC SECTION 903.2.3(1)

EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH CBC SECTION 705.2 AND 1405

MIN SETBACK FROM PROPERTY LINE = 10'-0". LESS THAN 10'-0" SEE CBC TABLE 705.5

EXTERIOR WALL OPENINGS TO COMPLY WITH CBC TABLE 705.8

IN ROOMS OR AREAS WITH SPECIAL HAZARDS SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS WHERE HAZARDOUS MATERIALS IN EXEMPT AMOUNTS ARE USED OR STORED SHALL BE FIRE SPRINKLED PER CBC SECTION 903.2.3(4)

PERMANENT PORTABLE BUILDINGS: A PORTABLE BUILDING THAT IS USED TO SERVE OR HOUSE STUDENTS AND IS CERTIFIED, AS A PERMANENT PORTABLE BUILDING ON A NEW PUBLIC SCHOOL CAMPUS BY THE PUBLIC SCHOOL ADMINISTRATION SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 903.2.3 AND 903.2.19

NOTES

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.

NOTE: ALL UTILITY AND SERVICE LINES CROSSING BUILDING SEPARATION JOINTS TO ACCOMMODATE, WITH OUT RUPTURE OR DISTRESS.

SITE SPECIFIC:
COMPLY WITH CFC CHAPTERS 5, CBC CHAPTERS 3, 5, 7, 7A, 11B & 14

NOTE: "THIS PC IS NOT APPROVED FOR CBC CHAPTER 7A WILDLAND-URBAN INTERFACE"

THIS PC WILL NOT BE PLACED ON ANY CAMPUS IN ANY OF THE FOLLOWING LOCATIONS:
1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT;
2. WITHIN THE 65 CNEL OR Ldn NOISE CONTOUR OF FREEWAY, EXPRESSWAY, RAILROAD, OR INDUSTRIAL SOURCE GUIDEWAY;
3. WHERE EXPOSED TO NOISE LEVEL OF 65dB Leq-1-HR DURING ANY HOURS OF OPERATION.

DESIGN PARAMETERS

FLOOR LIVE LOAD: ~~50 PSF~~, 50+15 PSF, ~~100 PSF &~~ 125 PSF
CONCENTRATED LOAD: 1000 TYP.
2000 LBS AT OFFICE

NOTE:
125 p.s.f APPLIES TO A PORTION OF BUILDING 700, BETWEEN GRID LINES 18 & 19; AND BUILDING 800 BETWEEN GRID LINES 14 & 15.

ROOF LIVE LOAD: 20 PSF

~~SNOW LOADS:~~
~~FLAT ROOF SNOW LOAD: 20 PSF MAX.~~
~~Ce=0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED~~
~~I=1.0~~
~~Ct=1.0~~
~~Cs=1.0~~

~~GROUND SNOW LOAD MAXIMUM: 31 PSF FULLY EXPOSED, 28 PARTIALLY EXPOSED, 26 PSF SHELTERED~~

~~SITE APPLICATION DESIGN PROFESSIONAL AND DSA PLAN REVIEWER SHALL VERIFY THE SITE STRUCTURE IS LOCATED AT LEAST 20 FEET FROM ANY ADJACENT HIGHER STRUCTURE. IF HORIZONTAL SEPARATION FROM A HIGHER STRUCTURE IS LESS THAN 20 FEET AND SIX TIMES THE VERTICAL DIMENSION SEPARATING THE ROOFS, SNOW DRIFT ANALYSIS IS REQUIRED TO BE PROVIDED, AND THE PROJECT CAN NOT BE USED FOR OTC SUBMITTAL.~~

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~~RAMP LIVE LOAD: 100 PSF~~

FLOOD HAZARD AREA: NOT ALLOWED

WIND DESIGN: (ASCE 7-16)
Kzt=1.0
WIND SPEED=110 MPH
EXPOSURE='C'
DIRECTIONAL PROCEDURE
COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD
RISK CATEGORY=II

DESIGN ROOF DEAD LOAD: 15 PSF (BEAMS AND TRUSSES + 3 PSF FOR FUTURE SOLAR PANELS)
FUTURE SOLAR INSTALLATION REQUIRES SEPARATE DSA APPLICATION.
DESIGN FLOOR DEAD LOAD:
~~PLYWOOD FLOOR - 8 PSF~~
CONCRETE DECK - 34 PSF

EARTHQUAKE DESIGN DATA:
1. I=1.0, OCCUPANCY RISK CATEGORY=II
2. Ss=2.3809 MAPPED VALUE
   S1=1.389 MAX MAPPED VALUE
3. SITE CLASS=D BY DEFAULT
   (THIS PC CAN NOT BE USED IN SITE CLASS 'E', SITE CLASS 'F' OR WHERE LIQUEFIABLE SOIL CONDITIONS ARE PRESENT.)
4. $S_{DS\ (W/0.7\ CAP)}$=0.7x1.905=1.334, $S_{DS\ (NO\ CAP)}$=1.905
5. SEISMIC DESIGN CATEGORY=E
6. LIGHT MODULAR STEEL MOMENT FRAME PER CBC SECTION 2212A
7. DESIGN BASE SHEAR= V = Cs W = 0.381 W
8. Cs=0.381
9. R=3.5
10. EQUIVALENT LATERAL FORCE PROCEDURE
11. NO VERTICAL OR HORIZONTAL IRREGULARITIES
12. SEISMIC CATEGORY=II
13. P=1.0 (REDUNDANCY FACTOR)
14. MAX DRIFT SEE SCHEDULE BELOW

BUILDING MAXIMUM DRIFT SCHEDULE

BUILDING SIZE	DUAL SLOPE	MONO SLOPE	W/ PARAPET	W/OUT PARAPET	BUILDING DRIFT	ALLOWABLE DRIFT FOR CABLES AND FLEXIBLE CONDUITS ACROSS SEPARATION JOINTS
~~24 X 40~~	✓	✓	✓	✓	~~*2.18"~~	~~2.83"~~
~~36 X 40~~	✓	✓	✓	✓	~~*2.18"~~	~~2.83"~~
48 X 40	✓	✓	✓	✓	*2.18"	2.83"
~~60 X 40~~	✓	✓	✓	✓	~~*2.18"~~	~~2.83"~~
72 X 40	✓	✓	✓	✓	*2.18"	2.83"
84 X 40	✓	✓	✓	✓	*2.18"	2.83"
~~96 X 40~~	✓	✓	✓	✓	~~*2.18"~~	~~2.83"~~
~~108 X 40~~	✓	✓	✓	✓	~~*2.18"~~	~~2.83"~~
~~120 X 40~~	✓	✓	✓	✓	~~*2.18"~~	~~2.83"~~

* DRIFT SHOWN IN THE TABLE ABOVE IS CALCULATED FOR GOVERNING CONDITION AND IS APPLICABLE FOR ALL OPTIONS AND CONFIGURATIONS

15. UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50 PERCENT SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN."

CLIMATE ZONE: THIS PC IS APPROVED FOR THE 2022 CALIFORNIA ENERGY CODE IN ALL CALIFORNIA CLIMATE ZONES

GEOHAZARD REPORT:
SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR THE FALLOWING CASES:

1. FOR EXISTING SITES OUTSIDE OF A MAPPED GEOLOGIC HAZARD ZONE SINGLE-STORY RELOCATABLE BUILDING 4,000 SF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.2.1, ARE EXEMPT FROM THE REQUIREMENT TO PROVIDE A GEOHAZARD REPORT. THE STRUCTURE MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SF TRIGGER.

2. FOR SITES WITHIN A MAPPED GEOLOGIC HAZARD ZONE FOR SINGLE-STORY RELOCATABLE BUILDING 2,160 SF OR LESS NON-PERMANENT FOUNDATIONS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 2.8, DSA MAY WAIVE THE REQUIREMENTS FOR SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS IF A GEOHAZARD REPORT IS PROVIDED THAT INDICATES THERE ARE NO GEOLOGIC HAZARDS AT THE SITE.

3. A GEOTECHNICAL & GEO-HAZARD REPORT IS REQUIRED FOR BUILDINGS LARGER THAN 4000 SQUARE FEET OR IF 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.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
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CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

DESIGN PARAMETERS, BUILDING & STRUCTURAL DATA & FIRE LIFE SAFETY

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
EXP. 4-2012
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.0a

GENERAL SPECIFICATIONS

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.
B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.
C. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE LISTED ON SHEET A0.0. A COPY OF THESE REGULATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. ALSO REFER TO THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY SECTION "INTERPRETATIONS OF REGULATIONS". SEE ESPECIALLY IR 16–1. THESE STRUCTURES ARE DESIGNED PER THE MODIFIED REQUIREMENTS TEMPORARY FOUNDATIONS (UNO).
D. CHANGES IN PLANS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDUM OR CONSTRUCTION CHANGES PER T24 , SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE ANY RELATED WORK CAN BEGIN. CONSTRUCTION CHANGES PER T24 SHALL ALSO BE SIGNED BY THE OWNER PRIOR TO APPROVAL BY DSA.
E. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS REQUIRES A CCD.

1. MATERIALS AND WORKMANSHIP:
A. ALL WORK SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED.
B. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT.
C. THE CONTRACTOR SHALL CERTIFY THAT NO ASBESTOS CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
D. TESTING: TESTS OF MATERIALS SHALL BE BY A PERSON OR TESTING LABORATORY SELECTED BY THE OWNER WITH THE APPROVAL OF DSA AND ARCHITECT. THE OWNER SHALL BE RESPONSIBLE FOR THE COST OF ALL REQUIRED TESTING AND INSPECTIONS, EXCEPT FOR THE RETESTING REQUIRED BY THE FAILURE OF ANY MATERIAL TO PASS.
E. ERECTION AT THE SITE: THE BUILDING SHALL BE TRANSPORTED, ERECTED AND SET ON FOUNDATION AS REQUIRED BY A LICENSED TRANSPORT. ALL REQUIRED FINISH WORK SHALL BE COMPLETED BY SKILLED LABOR OF THE MANUFACTURER/CONTRACTOR, BUT WILL NOT INCLUDE UTILITIES SERVICE CONNECTION.
F. SITE WORK: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR THE MOVE–IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. THE OWNER, UNLESS OTHERWISE SHOWN ON THE APPROVED PLANS, WILL PROVIDE SITE(S) SATISFACTORY TO THE ARCHITECT OR ENGINEER FOR THE INSTALLATION OF THE RELOCATABLE BUILDING(S) THAT ARE LEVEL AND HAVE STABLE SOIL CONDITIONS WITH ADEQUATE SITE DRAINAGE, EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR. IF ADDITIONAL GRADING AND/OR LEVELING IS NECESSARY FOR PROPER INSTALLATION OF MODULAR UNITS, THE ADDITIONAL CHARGE WILL BE THE RESPONSIBILITY OF THE OWNER.
G. UTILITIES: THE OWNER WILL BE RESPONSIBLE FOR ANY AND ALL UTILITY, FIRE ALARM OR SPECIAL ELECTRICAL SIGNAL SYSTEM CONNECTIONS EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR.

2. SCOPE OF WORK:
A. THE WORK CONSISTS OF MANUFACTURING OFF–SITE IN A PLANT, AND INSTALLING ON–SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
B. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.
C. THE CONDITION OF THE SITE SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS

ASSEMBLY
A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT, THE CONTRACTOR SHALL PLACE CONCRETE LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.
C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

INSPECTION
ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
A. GENERAL RESPONSIBLE IN CHARGE OF FIELD ADMINISTRATION IS BY THE ARCHITECT OF RECORD.
B. INSPECTION OF IN–PLANT WORK DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT'S ARCHITECT OR OWNER. THE INSPECTOR SHALL BE RESPONSIBLE TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BY THE SCHOOL DISTRICT OR OWNER.
C. ON SITE INSPECTION OF THE BUILDING SHALL BE PERFORMED BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT OR OWNER.
D. OTHER SPECIAL TESTS OR INSPECTIONS, SUCH AS CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

3. WORK NOT INCLUDED:
A. ALL ON–SITE OR OFF–SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
C. FIRE ALARM COMPONENTS ONLY, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

GENERAL DESIGN REQUIREMENTS:

THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE – DO NOT SCALE PLANS OR DETAILS.

WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.

TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR CONSTRUCTION SHOWN ON THESE DRAWINGS.

NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) METAL IDENTIFICATION TAGS 3"x1 1/2" MINIMUM SIZE. MECHANICALLY FASTEN ONE TAG VISIBLE FROM THE EXTERIOR AND THE OTHER TO THE INTERIOR FRAME ABOVE THE CEILING AT THE END OF THE MODULE. THE TAG SHALL HAVE THE FOLLOWING INFORMATION:

A. DSA APPLICATION NUMBER
B. BASIC WIND SPEED, EXPOSURE.
C. DESIGN ROOF LIVE LOAD
D. DESIGN FLOOR LIVE LOAD
E. BUILDER'S NAME
F. PLANT INSPECTOR/ID MARK
G. SERIAL NUMBER

STRUCTURAL FRAME – EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION IS ACCEPTABLE). WHEN MODULES ARE ASSEMBLED, JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE, SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS.

FRAMING – ROOF, WALLS AND FLOOR: FRAMING MEMBERS SHALL BE OF THE GRADE AND SIZE CALLED FOR ON THE STRUCTURAL PLANS.

ROOF OVERHANG – ALL OVERHANGS SHALL PRESENT A PLEASING AND FINISHED APPEARANCE. SOFFIT MATERIAL, WHEN USED, SHALL BE 3/8" MIN EXTERIOR SIDING. PLYWOOD SOFFIT MATERIAL SHALL BE APPLIED WITH EXPOSED GRAIN RUNNING PARALLEL TO THE LENGTH OF THE BUILDING. SOFFIT SHALL BE NEATLY AND CLOSELY FITTED AND TRIMMED TO COVER GAPS. ALL ENCLOSED SOFFIT AREAS SHALL BE VENTILATED PER THE CBC

FLOOR – THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 LBS PER SQUARE FOOT UNLESS OTHERWISE NOTED ON THE DRAWINGS. THIS DOES NOT APPLY TO A SLAB ON GRADE CONDITION.

FIRE EXTINGUISHER – UL 2-A:10-B:C PER CBC 906.1 (1), PRESSURE TYPE, +48" TO EXTINGUISHER HANDLE. +48" TO FIRE EXTINGUISHER HANDLE WHEN PROVIDED.

BUILDING INSULATION – SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. FLAME SPREAD – MAX 25, SMOKE DEVELOP – MAX 450

BUILDING VENTILATION – PER SECTION 1202.4.1. OPENINGS FOR UNDER–FLOOR VENTILATION SHALL NOT BE LESS THAN 1 1/2 SQUARE FEET (0.135 m^2) FOR EACH 150 SF OF CRAWL SPACE. THEY SHALL BE COVERED WITH CORROSION–RESISTANT WIRE MESH WITH MESH OPENINGS NOT LESS THAN 1/4 INCH (6.4 mm) NOR MORE THAN 1/2 INCH IN ANY DIRECTION.

WHEN MODULE IS RELOCATED – DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES.

ELECTRICAL

1. SCOPE OF WORK:
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS:
ALL NEW COMPLYING WITH REQUIREMENTS OF CBC AND NFPA
A. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
B. PANEL BOARDS: FLUSH MOUNTED WITH HINGED DOORS AND INDEXED CARD HOLDERS.
C. CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE– #12.
D. RECEPTACLE: GENERAL ELECTRIC 5242–2 OR EQUAL, +15" AFF MIN TO BTM OF BOX.
E. CLOCK RECEPTACLE: EAGLE OR EQUAL.
F. SWITCHES: GENERAL ELECTRIC 5901–2 OR EQUAL, +48" AFF MAX TO TOP OF BOX.
G. 2'x4' LED DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DBL. BALLAST, MAGNETIC ENERGY EFFICIENT 55 WATTS. WEIGHT 27 LBS (UNO)
H. ALL ELECTRICAL WIRING 110V AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF CEC MINIMUM SIZE CONDUIT IS 1/2" MIN
I. ACCEPTABLE CONDUIT: RIGID ELECTRICAL METALLIC TUBING (EMT); GALVANIZED THIN WALL FLEXIBLE (INTERIOR); GALVANIZED STEEL FLEXIBLE (EXTERIOR); GALVANIZED STEEL WITH FACTORY APPLIED PVC
J. ALL CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND SHALL BE SECURED IN CONFORMANCE WITH CEC FIELD BENDS SHALL BE AVOIDED WHEREVER POSSIBLE. WHERE BENDS MUST BE MADE, USE AN APPROPRIATE "HICKEY" OR BENDING MACHINE. REAM AND DEBUR ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APPROPRIATE BUSHINGS OR CONNECTORS, JACKET. WIRING SHALL BE #14 MIN COPPER TYPE TW, THW, THWN AS APPLICABLE. CONDUIT FILL SHALL NOT EXCEED REQUIREMENTS OF CEC A SEPARATE GROUNDING CONDUCTOR SHALL BE PULLED THROUGHOUT THE ENTIRE SYSTEM. CARE SHALL BE TAKEN TO AVOID DAMAGE TO WIRE OR INSULATION DURING PULLING. POWDERED SOAPSTONE OR A PULLING COMPOUND SUCH AS "YELLOW 77" LUBRICANT MAY BE USED IF NECESSARY.

3. WORKMANSHIP
MATERIAL AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS, PANEL BOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.

GROUNDING OF BUILDING COMPONENTS

1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, SHALL BE THE RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE BUILDING ELECTRICAL SYSTEM PER CEC SECTION 250 AND DSA IR E–1.

2. THE PROJECT INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TESTS.

PAINTING

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDINGS. ALL EXPOSED SURFACES OF BUILDING AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS, REFERENCE SHEET A0.6 FOR VOC LIMITS

2. MATERIALS
A. EXTERIOR WOOD– VISTA BRAND 4100 PRIMER, 6000 FINISH (OR EQUAL)
B. INTERIOR TRIM– VISTA BRAND 7000 FINISH (OR EQUAL)
C. METAL– VISTA BRAND 7000 FINISH (OR EQUAL)

3. WORKMANSHIP
A. EXTERIOR– WOOD SIDING, TRIM AND SKIRTING– APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON.
B. INTERIOR TRIM– TRIM NOT PRE COATED SHALL BE PAINTED WITH TWO COATS OF SEMI GLOSS LATEX OVER PRIMER.
C. METAL– ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER SHOP COAT.
D. RAMP– ONE COAT OF NONSKID SURFACING.

MECHANICAL SECTION

1. SCOPE OF WORK:
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. WORKMANSHIP:
UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

3. EQUIPMENT: SEE A/C INFORMATION SCHEDULE FOR SIZE AND TYPE
A. FACTORY MADE AIR DUCTS. FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF CMC. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH CMC AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING.
B. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED, SECTION 720, 2022 CBC
C. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50.
D. AIR FILTERS. AIR FILTERS SHALL COMPLY WITH THE STANDARD FILTER UNITS & TEST PERFORMANCE THAT IS REFERENCED IN CHAPTER 4, AS CLASS I OR II, CMC, 2" MERV 13 DISPOSABLE FILTER.
E. PIPE AND TUBING. INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD–RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC SECTION 720.7
F. UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

CARPENTRY

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. MATERIALS
LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU OR "WESTERN LUMBING FOR GRADING RULES 2015 EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1–09 FOR STRUCTURAL PLYWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CURRENT CBC REFERENCE STANDARDS
A. HEADERS: HEM FIR STUD GRADE OR BETTER
B. PLATES: HEM FIR STUD GRADE OR BETTER.
C. BLOCKING: HEM FIR STUD GRADE OR BETTER
D. TREATED LUMBER: SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY, ASPHALT OR EARTH–HEMLOCK FIR PRESSURE TREATED WITH PRESERVATIVE AS SPECIFIED IN 2303.1.9 OF CBC AWPA STANDARD U1 AND M4; 2X GRADE MEMBERS CUT ENDS DIPPED IN PRESERVATIVE (CUPONAL).
E. PLYWOOD ROOF DECKING: APA C–D GRADE, GROUP 1, EXPOSURE 1 WITH EXTERIOR GLUE. ON OVERHANGS, C–C PLUGGED AND TOUCH SANDED
F. PLYWOOD FLOOR DECKING: APA STURD–I–FLOOR 48" OC 1–1/8" TONGUE AND GROOVE FLOOR SHEATHING.
G. EXTERIOR SIDING/SHEATHING: APA TYPE 303, EXTERIOR, MDO 8" OC, SIDING. SHEATHING 1/2" CDX.
H. STUDS AND POSTS: HEM FIR STUD GRADE
I. FASTENERS: ALL NAILS SHALL BE CORROSION RESISTANT PER CBC SECTION 2304.10.2.1 & 2304.10.6
J. BUILDING TRIM: 1x RESAWN SELECT HF OR MASONITE
K. DOOR/WINDOW TRIM: 1x4 RESAWN HF

3. WORKMANSHIP
A. FRAMING: SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
B. NAILING: IN ACCORDANCE WITH CBC TABLE 2304.10.2. NAILS SHALL BE CORROSION RESISTANT BOX NAILS PER 2304.10.2.1 AND 2304.10.6.
C. EXTERIOR WALLS: FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL. NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS
D. MACHINE APPLIED NAILING: SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY
E. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING
F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN
G. THE DESIGN MOISTURE CONTENT OF LUMBER SHALL BE 19% OR LESS BEFORE FABRICATION.

SEALANT & WEATHER RESISTANT

1. SCOPE OF WORK:
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.

2. MATERIALS:
A. "VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL, TO BE USED AT ALL STANDING SEAM ROOFING DETAILS.
SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, REFER TO SHEET A0.6 FOR VOC LIMITS

MOISTURE BARRIER:
ALL WEATHER–EXPOSED SURFACES SHALL HAVE A WEATHER–RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED FOR IN THE CBC 1404.2 & 2510.6. BARRIER SHALL BE FREE FROM HOLES AND BREAKS OTHER THAN THOSE CREATED BY FASTENERS AND CONSTRUCTION SYSTEM DUE TO ATTACHING OF THE BUILDING PAPER.

ZBAR:
ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "Z BAR– 3/4 x 5/8 x 3/4" FLASHING.
FLASHING NEED NOT BE USED WHERE SKIRTING MEETS THE UNDERSIDE OF AN EXPOSED METAL FRAME AND THE SKIRTING IS RECESSED SUFFICIENTLY TO PROTECT THE TOP EDGE OF PLYWOOD. APPLY SEALANT TO SEAM FOR WEATHER–RESISTANCE.

SHEET METAL

1. SCOPE OF WORK:
CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS:
A. SHEET METAL– STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A123. MINIMUM 26 GA
B. SOLDER– OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD AND TIN ASTM B32.
C. FLUX– ZINC SATURATED MURATIC ACID.

3. WORKMANSHIP:
SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT.

STRUCTURAL AND MISC STEEL

1. SCOPE OF WORK:
CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND AS SPECIFIED AND INDICATED ON THE DRAWINGS, AND SERVICES REQUIRED FOR STRUCTURAL AND MISCELLANEOUS STEEL

2. MATERIALS:
REFER TO SHEET S0.0 FOR STRUCTURAL STEEL AND COLD FORMED STRUCTURAL STEEL INFORMATION

3. WORKMANSHIP
A. NAILS, BOLTS, SCREWS, NUTS, ETC. EXTERIOR WORK SHALL BE CADIUM PLATED OR GALVANIZED.
B. HANDRAILS FOR STAIRS AND RAMPS: SEE RAMP OR STAIR SHEETS
C. SHOP PAINT:
1. EXPOSED STEEL PROTECTED BY RUST INHIBITIVE SHOP COAT
2. NON–EXPOSED STEEL COATED WITH ONE COAT SHOP COAT
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOPS COAT
D. TESTS: PROVIDE MILL CERTIFICATES OR TEST ALL MEMBERS. WELDS SHALL BE INSPECTED AND/OR TESTED PER SECTION 1705A.2.5
E. PERFORM SPECIAL INSPECTION FOR INTUMESCENT FIRE RETARDANT COATINGS PER SECTION 1705A.16

ACOUSTICAL CONTROL

REFER TO SHEET A0.7 FOR ACOUSTICAL CONTROL INFORMATION

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
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PROJECT NAME:

SHEET TITLE:

SPECIFICATIONS AND NOTES

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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APP: 02-121341 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RAY J. OMER · No. S 4497 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
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3 .
4 .

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.1

NOT USED

ROOFING:

~~HYDRA ELEVATE ULTRAPLY TPO:~~
PER CBC SECTION 1505 CLASS 'A' BASE SHEET FINISHED GRADE. FIRESTONE ULTRAPLY TPO MEMBRANE ROOFING SYSTEM (THERMOPLASTIC POLYFIN BASED MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS A FIRE. TPO MEMBRANES ARE PRODUCED WITH A POLYESTER WEFT INSERTED REINFORCEMENT. SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

~~1/4" DENS-DECK ROOF BOARD:~~
USED AS AN UNDERLAYMENT FOR THE TPO MEMBRANE ROOFING SYSTEM. FLAME SPREAD 0, SMOKE DEVELOPED: 0 PER, ASTM E-84. INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS.

22 GAUGE METAL ROOFING:
UNPENETRATED INTERLOCKING ROOF PANELS MECHANICALLY CRIMPED AT TOP TO INSURE AGAINST WATER INFILTRATION, STANDING SEAM OR RIBBED TYPE. THE ROOFING SYSTEM SHALL BE FIRE RETARDANT PER CBC STANDARDS. TEST RESULTS TO SUPPORT CLASS 'A' RATING, SHOWING THE ROOF SYSTEM WILL WITHSTAND THE UPLIFT OF A 110 MPH WIND.

EXTERIOR:

~~PLYWOOD SIDING:~~
~~EXPERATEMP GROOVED 8" OC APA PRODUCT REPORT #PR-C302 OR~~
~~LP SMARTSIDE PRECISION PANE; SIDING GROOVED 8" OC ICC REPORT #ESR-1301~~

~~PAPER (WATER-RESISTIVE BARRIER) PER SECTION 1402.5 & 2510.6: A MINIMUM OF TWO LAYER OF NO.15 ASPHALT FELT, COMPLYING WITH ASTM D 226 FOR TYPE 1 FELT OR OTHER APPROVED MATERIAL, SHALL BE ATTACHED TO STUDS OR SHEATHING, WITH FLASHING AS DESCRIBED IN SECTION 1404.4, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENEER.~~

LATH/FURRING AND PLASTER (STUCCO):
CBC SECTION 2507 & 2510:

PAPER (WATER-RESISTIVE BARRIER) PER SECTION 1402.5 & 2510.6: A MINIMUM OF TWO LAYER OF NO.15 ASPHALT FELT, COMPLYING WITH ASTM D 226 FOR TYPE 1 FELT OR OTHER APPROVED MATERIAL, SHALL BE ATTACHED TO STUDS OR SHEATHING, WITH FLASHING AS DESCRIBED IN SECTION 1404.4, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENEER.

SELF-FURRING LATH (VERTICAL APPLICATION): USE SELF-FURRING LATH CONFORMING TO 1/4" OFFSET REQUIREMENTS OF ASTM C 933 SECTION 5.12. INSTALL SELF-FURRING LATH PER DSA IR 25-4 AND ASTM C 1063.

RIB LATH (HORIZONTAL APPLICATION): USE 3/8" RIB LATH PER ASTM C 847. PROVIDE MIN. 1/2" SIDE LAP WITH WIRE TIES AT 6" O.C. PROVIDE 1" END LAPS OVER SUPPORTS WITH MAJOR RIBS NESTED.

CEMENT: INSTALL AND COMPLY WITH SECTIONS 2510, 2512, AND ASTM C 926.

WINDOWS:
HORIZONTAL SLIDING, 50% VENTING, ANODIZED ALUMINUM FRAME. PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE AND MEDIUM EXPOSURE, NAIL-ON FIN FASTENED DIRECTLY TO FRAMING AND BEHIND SIDING MATERIAL, REMOVABLE SCREEN AT VENT SASHES. LAMINATED OR TEMPERED GLAZING TO BE NOTED ON FLOOR PLAN. DUAL GLAZED WINDOWS TO HAVE MINIMUM 1/4" AIR SPACE AND 1/8" GLASS (SEE WINDOW SCHEDULE FOR SIZES)

INTERIOR:

INTERIOR WALL COVERINGS:
APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8" ORIENTED STRAND BOARD. EXPOSED SURFACES FIRE RATED PER ASTM E-84, FLAME SPREAD MAXIMUM 200, SMOKE DEVELOPED MAXIMUM 450. (PROVIDE FIRE BLOCKING WHEN 3/8" OSB IS USED AS BACKING MATERIAL)

VINYL TACKBOARD:
VINYL WALL COVERING TO BE CLASS III DOMTAR GYPSUM OR EQUAL, LAMINATED ONTO 1/2" INDUSTRIAL INSULATION BOARD, 4'-0"x9'-0", LONG EDGES BEVELED. FLAME SPREAD = 65 SMOKE DENSITY = 175

FRP:
FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0"x8'-0", WITH COLOR MATCHED PVC MOLDINGS OVER 1/2 GYPSUM. FLAME SPREAD = 25 AND SMOKE DEVELOPMENT = 450, CLASS A PER ASTM E-84

MARKER BOARDS:
1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL W/ CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER. CHALK TRAY MAY NOT PROJECT MORE THAN 4".

CEILING:

SUSPENDED T-BAR SYSTEM:
PERFORMANCE RATED ASTM C-635 HEAVY DUTY FLAME SPREAD MAX 0-25, SMOKE DEVELOP MAX 450.

ACOUSTIC LAY-IN CEILING PANELS:
LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E-84. VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV. CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E-1264. SMOKE DEVELOP MAX 450

FLOORING:

CARPET:
PROVIDE GLUE-DOWN OR FIRM CUSHION, PAD OR BACKING OR NO CUSHION PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" PER SECTION 11B-302.2 EXPOSED EDGES OR CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303 MINIMUM CRITICAL RADIANT FLUX SHALL NOT EXCEED LESS THAN 0.45 WATTS PER SQUARE CENTIMETER.

SEE CARPET CONT ON THIS SHEET FOR CALGREEN REQUIREMENTS

VINYL SHEET FLOORING:
MINIMUM WEAR LAYER .050" THICK, PERFORMANCE RATED PER ASTM F1303-90 TYPE-II, GRADE-1, CLASS-A, AND ASTM F970 125 PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-1, AND ASTM E662 SMOKE DENSITY MAX 450. MIN COEFFICIENT OF FRICTION TO BE 0.6 PER ASTM D-2047 & CBC SECTION 11B-302

VINYL COMPOSITION TILE:
12" SQUARE, MINIMUM 1/8" THICK, PERFORMANCE RATED PER ASTM F1066, COMP-1, CLASS-2, AND ASTM F970 75 PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-1, AND ASTM E662 SMOKE DENSITY MAX 450. MIN COEFFICIENT OF FRICTION TO BE 0.6 PER ASTM D2047

TOP SET BASE:
BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE #502-P, OR EQ

CERAMIC TILE FLOORING:
CERAMIC TILE FLOORING SHALL HAVE A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM C-1028.

QUARRY TILE FLOORING:
QUARRY TILE FLOORING SHALL HAVE A COEFFICENT OF FRICTION OF AT LEAST 0.6 PER ASTM C-1028.

RESILIENT FLOORING:
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. ADA STANDARDS 4.5.1, AT LEAST 80% OF THE FLOOR AREA RECEIVING RESILIENT FLOORING AND SHOWN THAT AT LEAST ONE OF THE FOUR TESTING OR PRODUCTS MEET THE REQUIREMENTS SHOWN ON CALGREEN SECTION 5.504.4.6

DOORS:

FINISH HARDWARE:
HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs MAX. HARDWARE SHALL BE BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.

HARDWARE:
MOUNTING HEIGHT OF LATCHING HARDWARE SHALL BE 34" TO 44" AFF PER CBC SECTION 11B-404.2.7. PRESSURE TO OPERATE THE DOOR SHALL NOT EXCEED: 5 LBS (22.2 N) FOR EXTERIOR DOORS, 5 LBS (22.2 N) FOR INTERIOR DOORS & WHEN FIRE DOORS ARE REQUIRED 5 LBS (22.2 N) MAX OR THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.72 N). 11B-404.2.9 #3. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF CBC SECTIONS 1010.2.2 & 11B-404.2.9

CLOSER:
DOOR CLOSER, WHEN PROVIDED, THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90 DEGREES THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM, MEASURED TO THE LANDING SIDE OF THE DOOR. REFER TO SECTION 11B-404.2.8, 11B-404.2.8.1, 11B-404.2.8.2 & 11B-404.2.9

THRESHOLD:
THRESHOLD SHALL COMPLY WITH CBC SECTION 11B-404.2.5, AND 1010.1.6

FLOOR STOPS:
FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS, POLICY 99-08.

EXIT DEVICES:
PANIC HARDWARE SHALL COMPLY WITH CBC STANDARDS AND SHALL BE MOUNTED 36" TO 44" ABOVE FINISHED FLOOR SURFACE. THE UNLATCHING FORCE SHALL NOT EXCEED 5# APPLIED IN THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.2.9 PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, CBC 1010.2.9

HOLLOW METAL DOORS AND FRAMES:
DOORS-TYPE L FULL FLUSH INSULATED, MANUFACTURED BY 'STEELCRAFT' OR APPROVED EQUAL (UNO)
FRAMES-16 GA COLD ROLLED 2" FACES (UNO)
SEE SHEET A0.3 FOR DOOR AND FRAME INFORMATION. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS & SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES (UNO)

GENERAL FINISHES:

FINISHES:
ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 7 & 8, CFC AND TITLE 19 CCR.

FIRE PROTECTION:

FIRE EXTINGUISHER CABINETS:
FIRE EXTINGUISHER CABINETS MUST COMPLY WITH CBC SECTIONS 906 AND 3309

CASEWORK:

HANDLES:
PROVIDE U SHAPED WIRE PULLS OR EQUALLY ACCESSIBLE PULL HARDWARE AT ALL ACCESSIBLE CASEWORK. PER 11B-404.2.7

CARPET SYSTEM SHALL COMPLY W/ CALGREEN 5.504.4.4:

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017
(EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

CARPET CUSHION SHALL COMPLY W/ CALGREEN 5.504.4.4.1:
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017
(EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

PROJECT SPECIFIC STATE AGENCY APPROVAL

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN I. OKADA
No. S 4437
12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.1a

HARDWARE GROUP (ENTRY/OFFICE) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': T 511 DANE LEVER 626
1	KEYING	FALCON TEMPORARY CORE
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	WEATHER-STRIP	'PEMKO': 2891AS 36"x84"
1	KICK PLATE	'ROCKWOOD': K1050 8"x34"
1	DOOR STOP	'ROCKWOOD': 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PANIC) 2		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'VON DUPRIN': PUSH BAR AX-22-L-SP28 RIM EXIT DEVICE
1	EXTERIOR TRIM	'VON DUPRIN': LEVER HANDLE 230L TRIM
1	KEYING	CONSTRUCTION KEY
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	WEATHER-STRIP	'PEMKO': 2891AS 36"x84"
1	KICK PLATE	'ROCKWOOD': K1050 8"x34"
1	DOOR STOP	'ROCKWOOD': 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PRIVACY) 3		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 301 DANE LEVER 626
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

HARDWARE GROUP (OFFICE) 4		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 521 DANE LEVER 626
1	KEYING	FALCON TEMPORARY CORE
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

HARDWARE GROUP (PASSAGE) 5		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 101 DANE LEVER 626
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

HARDWARE GROUP (STORAGE) 6		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 581 DANE LEVER 626
1	KEYING	FALCON TEMPORARY CORE
3	HINGES	'MCKINNEY': T2714 4"x4" A5133

HARDWARE GROUP (MULTI-USE EXT. R.R.) 7		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 561 DANE LEVER 626
1	KEYING	FALCON TEMPORARY CORE
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216AV 36"
1	WEATHER-STRIP	'PEMKO': 2891AS 36"x84"
1	DOOR STOP	'MCKINNEY': FS02 FLOOR STOP (LOCATED 4" FROM WALL)
1	LOUVERS	'AIR LOUVERS, INC': 800A 24"x12"

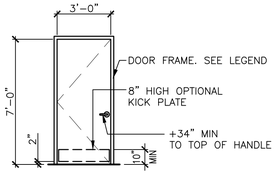
HARDWARE GROUP (SINGLE-USE EXT. R.R.) 8		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	'FALCON': 571 DANE LEVER 626
1	KEYING	FALCON TEMPORARY CORE
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'MCKINNEY': MCK271A 36"
1	DOOR BOTTOM	'MCKINNEY': MCK216AV 36"
1	WEATHER-STRIP	'MCKINNEY': MCK2891AS 36"x84"
1	DOOR STOP	'MCKINNEY': FS02 FLOOR STOP (LOCATED 4" FROM WALL)
1	LOUVERS	'AIR LOUVERS, INC': 800A 24"x12"

DOOR SCHEDULE

#	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING	REMARKS
100	A	3'-0"	7'-0"	1	STL	18	KD	16	–	–	SEE A1.1
200A	A	3'-0"	7'-0"	2	STL	18	KD	16	–	–	SEE A1.2
200B	A	3'-0"	7'-0"	2	STL	18	KD	16	–	–	SEE A1.2
300	A	3'-0"	7'-0"	2	STL	18	KD	16	–	–	SEE A1.3
300A	A	3'-0"	7'-0"	5	SCW	–	TM	–	–	–	SEE A1.3
301	A	3'-0"	7'-0"	2	STL	18	KD	16	–	–	SEE A1.3
3	A	3'-0"	7'-0"	3	SCW	–	TM	–	–	–	–
4	B	3'-0"	7'-0"	–	SCW	–	TM	–	–	–	DUTCH DOOR
5	C	(2)3'-0"	7'-0"	–	STL	18	WF	16	–	–	DOUBLE DOOR
6	D	3'-0"	7'-0"	–	STL	18	WF	16	YES	–	SEE GLAZING SIZE BELOW
											FOR GLAZING SIZE SEE DOOR TYPE D

DOOR MATERIAL LEGEND
STL: STEEL DOOR-HOLLOW CORE
SCW: SOLID CORE WOOD
SCL: SOLID CORE WOOD LEGACY
HCW: HOLLOW CORE WOOD
SF: STORE FRONT

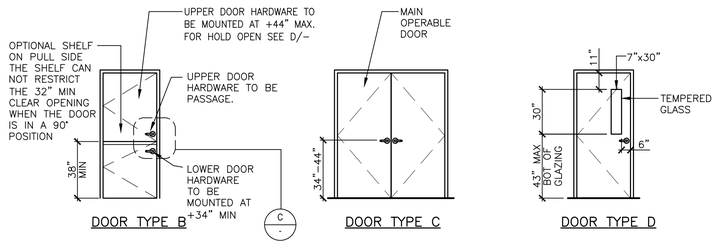
DOOR FRAME LEGEND
WF: WELDED FRAMING-HOLLOW METAL
TM: TIMELY METAL
KD: KNOCK DOWN-HOLLOW METAL
SF: STORE FRONT



DOOR TYPE A

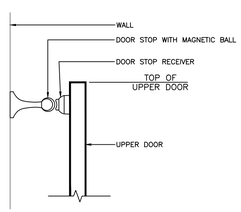
NOTE:
CBC 1010.2.8.2 – NEW BUILDINGS ON A 12K PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INTERIOR. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.2. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.

STANDARD DOOR TYPE



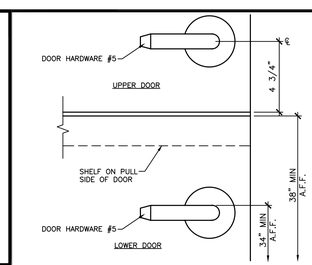
DOOR TYPE B | DOOR TYPE C | DOOR TYPE D

OPTIONAL DOOR TYPES



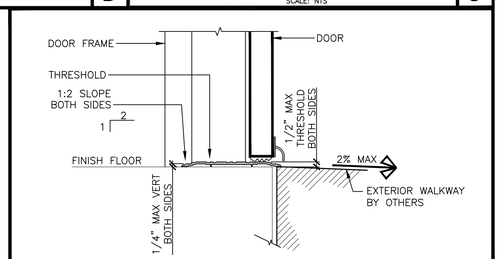
DUTCH UPPER DOOR STOP/OPEN HOLD
SCALE: NTS

D



DUTCH DOOR LATCH (W/ SHELF)
SCALE: NTS

C



ACCESSIBLE THRESHOLD
SCALE: NTS

1

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALLS ELEV. 1	WALLS ELEV. 2	WALLS ELEV. 3	WALLS ELEV. 4	CEILING FINISH	HEIGHT CEILING	REMARKS
100	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	SEE SCHEDULE	–
200	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	–	–
300	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	–	–
301	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	–	–
101	RR/JANITOR	SV	6SC	FRP	FRP	FRP	FRP	AT	–	–
201	RR/JANITOR	SV	6SC	FRP	FRP	FRP	FRP	AT	–	–
302	RR/JANITOR	SV	6SC	FRP	FRP	FRP	FRP	AT	–	–
303	RR/JANITOR	SV	6SC	FRP	FRP	FRP	FRP	AT	–	–

NOTE: FINISHES BY OWNER SHALL COMLPY WITH SPECIFICATIONS ON SHEET A0.1a

CEILING HEIGHTS

☐	8'-6" SEE NOTE BELOW
☐	9'-0" SEE NOTE BELOW
☐	9'-6" SEE NOTE BELOW
☐	10'-0" SEE NOTE BELOW

NOTE:
FOR CEILING HEIGHT SEE HSS COLUMN SCHEDULE ON S0.1, S0.1P OR S0.2

FLOOR FINISH LEGEND
CPT: CARPET FLOORING
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE
4TB: 4" TOP SET BASE
6TB: 6" TOP SET BASE
6SC: 6" SELF COVE BASE
BO: BY OWNER

WALL FINISH LEGEND: (CHECK BOX WHERE APPLICABLE)
VT: 1/2" VINYL TACK BOARD OVER: ☐
1/2" GYP BOARD ☐
OPTIONAL 5/8" GYP BOARD ☐
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS

FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER:
1/2" MOISTURE RESISTANT GYP BOARD ☐
OPTIONAL 5/8" MOISTURE RESISTANT GYP BOARD ☐

PGYP: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED ☐
OPTIONAL 5/8" GYP BOARD TAPE/TEXTURED/PAINTED ☐
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS AND/OR WET AREAS

CEILING FINISH LEGEND: (CHECK BOX WHERE APPLICABLE)
AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID
CEILING TILE: CORTEGA #769
CEILING GRID: MAIN: ARMSTRONG 7301, 4' XL7340,2' XL8320

HL: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED ☐
5/8" GYP BOARD TAPE/TEXTURED/PAINTED ☐

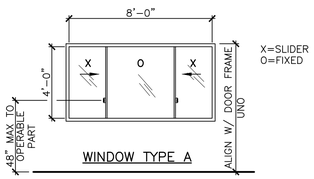
WINDOW FRAME LEGEND
AL: ALUMINUM
HM: HOLLOW METAL
VL: VINYL

WINDOW FINISHES
CA: CLEAR ANODIZED
BA: BRONZE ANODIZED
PNT: PAINTED
VL: VINYL

GLAZING TYPES
1: TEMPERED GRAYLITE
2: CLEAR TEMPERED
3: DUAL PANE

GLAZING NOTE
1. GLAZING U-FACTOR: MAX 0.52
2. SHGC: MAX 0.17
3. VISIBLE TRANSMISSION: MAX 0.16 (NFRC CPD#: INT-A-73-00371-00037) OR BETTER

STC RATING EXTERIOR WINDOWS
☐ MIN STC 40 RATING



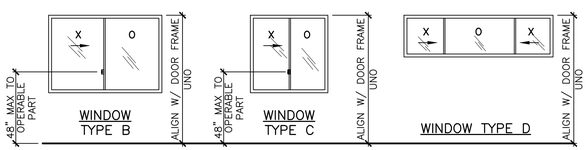
WINDOW TYPE A

STANDARD WINDOW TYPE

WINDOW SCHEDULE

*	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING	MAKE AND MODEL	REMARKS
A	8'-0"	4'-0"	AL	CA	1&3	–	INTERNATIONAL WIDOWS SERIES 6200	SCREENED
B	6'-0"	4'-0"	AL	CA	1&4	–		SCREENED
C	4'-0"	4'-0"	AL	CA	1&4	–		SCREENED
D	8'-0"	2'-0"	AL	CA	1&4	–		SCREENED

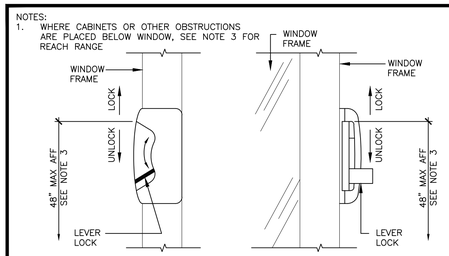
NOTE:
1. OPERATION OF WINDOW AND HARDWARE SHALL NOT REQUIRE MORE THAN 5 LBS MAX FORCE.
2. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED AND INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON THE PLAN.
3. MIN. OF ONE WINDOW SHALL MEET ACCESSIBILITY REACH RANGE REQUIREMENTS OF OPERABLE PARTS BELOW.
   A. WHEN WINDOW IS UNOBSTRUCTED THE REACH RANGE IS 48" MAX.
   B. WHEN WINDOW IS OBSTRUCTED SEE BELLOW.
      OBSTRUCTION VERT=34" MAX. AND HORIZ=10" TO 24" MAX OPERABLE PART AT 46" MAX.
      OBSTRUCTION VERT=34" MAX. AND HORIZ=10" MAX OPERABLE PART AT 48" MAX.
4. OPERATION SHALL COMPLY WITH 11B-309



IF AN OPERABLE WINDOW TYPE D IS PROVIDED IN A ROOM, AT LEAST ONE ACCESSIBLE WINDOW OF TYPE A,B OR C SHALL ALSO BE PROVIDED.

OPTIONAL WINDOW TYPE

NOTES:
1. WHERE CABINETS OR OTHER OBSTRUCTIONS ARE PLACED BELOW WINDOW, SEE NOTE 3 FOR REACH RANGE



WINDOW HANDLE
SCALE: NTS

2

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
AURORA DESIGNS | MODTECH Design | MODULAR STRUCTURES INTERNATIONAL, INC DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1660 CHICAGO AVE., SUITE I-7
RIVERSIDE, CA 92507
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PROJECT NAME:

SHEET TITLE:

FINISH, DOOR & WINDOW SCHEDULES

REFER TO A0.3-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4470 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

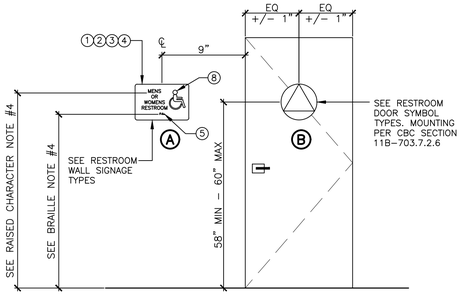
ARCHITECT OF RECORD

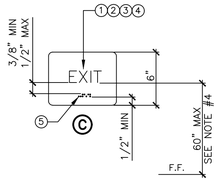
REVISIONS
1 -
2 -
3 -
4 -

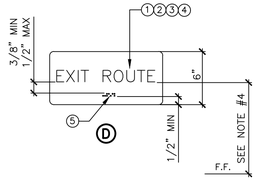
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

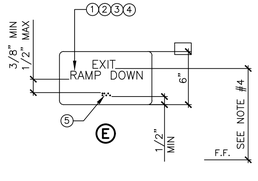
SHEET NUMBER

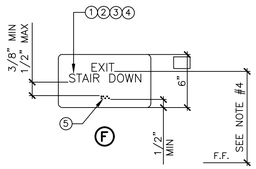
A0.3

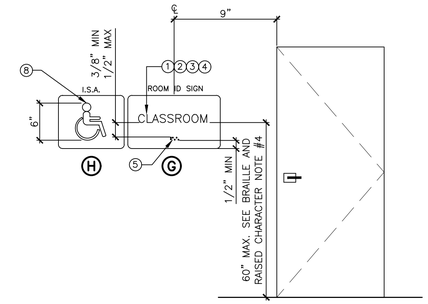


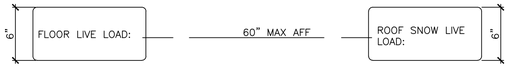








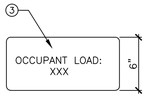




I

ROOF & FLOOR LIVE LOAD SIGNS

J



K

SEE GENERAL NOTE #7

GENERAL NOTES:

1. EXIT SIGNAGE PER CBC SECTION 11B–703.2 & 11B–703.3
2. REST ROOM SIGNAGE PER CBC SECTION 11B–703.6 REST ROOM WALL AND DOOR SIGNAGE BY MANUFACTURER UNO
3. CLASSROOM SIGNAGE IS FURNISHED AND INSTALLED BY DISTRICT ON–SITE UNO. ARCHITECT TO SPECIFY DESIGN AND SIZE
4. EXIT TACTILE SIGN BY MANUFACTURER UNO
5. I.S.A. SIGN BY MANUFACTURER UNO.
   I.S.A. COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B–703.7.2.1 TYP WHENEVER USED
6. PER FEDERAL ADDAAG, BRAILLE ON RESTROOM GEOMETRIC DOOR SIGNS IS PROHIBITED. TEXT DESIGNATING THE GENDER ACCESS IS OPTIONAL HOWEVER THE TEXT DOES NOT REQUIRE TO COMPLY WITH TACTILE TEXT REQUIREMENTS
   SINGLE USE RESTROOM SHALL HAVE A GENDER NEUTRAL DOOR SYMBOL WITH NO TEXT OR PICTOGRAM.
7. FLOOR LIVE LOAD & ROOF SNOW LOAD POSTING: WHEN BUILDINGS ARE DESIGNED & CONSTRUCTED FOR A FLOOR LIVE LOAD EXCEEDING 50 POUNDS–FORCE OR FOR ANY ROOF SNOW LOAD, THE BUILDING MANUFACTURER SHALL POST SIGNS IN A CONSPICUOUS LOCATION ON EACH BUILDING DEPICTING THE DESIGN FLOOR OR ROOF LOADS IN ACCORDANCE WITH CBC SECTION 106.1. THE BUILDING MODULE IDENTIFICATION LABELS REQUIRED BY SECTION 4.1.1 OF IR 16–1 SHALL NOT CONSTRUED AS MEETING THIS REQUIREMENT.

BRAILLE AND RAISED CHARACTERS

1. RAISED CHARACTERS: CBC SECTION 11B–703.2, RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B–703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTION 11B–703.3. SIGNS WITH RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 11B–703.4

   CHARACTER DEPTH: CBC SECTION 11B–703.2.1, RAISED CHARACTERS SHALL BE 1/32" MINIMUM ABOVE THEIR BACKGROUND

   CHARACTER CASE: CBC SECTION 11B–703.2.2, CHARACTERS SHALL BE UPPERCASE

   CHARACTER STYLE: CBC SECTION 11B–703.2.3, CHARACTER SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS

2. CHARACTER HEIGHT: CBC SECTION 11B–703.2.5, CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINUMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I"
3. FINISH AND CONTRAST: CBC SECTION 11B–703.5.1, CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON–GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUD OR DARK CHARACTERS ON A LIGHT BACKGROUND
4. CHARACTER PROPORTIONS: CBC SECTION 11B–703.2.4, CHARACTERS 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 LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

   MOUNTING HEIGHT: CBC SECTION 11B–703.4.1, TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS
5. BRAILLE: CBC SECTION 11B–703.3, BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B–703.3 AND 11B–703.4

   BRAILLE DIMENSIONS AND CAPITALIZATION: CBC SECTION 11B–703.3.1, 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

   BRAILLE POSITION: CBC SECTION 11B–703.3.2, 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" MINIMUM AND 1/2" MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS

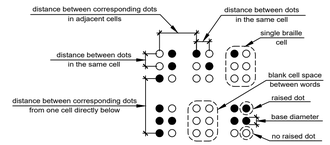


FIGURE 11B-703.3.1
BRAILLE MEASUREMENT

PICTOGRAMS AND SYMBOLS (WALL ROOM I.D. SIGN)

7. PICTOGRAM FIELD: CBC SECTION 11B–703.6.1, PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD

   FINISH AND CONTRAST: CBC SECTION 11B–703.6.2, PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON–GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD

   TEXT DESCRIPTION: CBC SECTION 11B–703.6.3, PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTION SHALL COMPLY WITH SECTION 11B–703.2, 11B–703.3, AND 11B–703.4
8. INTERNATIONAL SYMBOL OF ACCESSIBILITY: CBC SECTION 11B–703.7.2.1, THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B–703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 FEDERAL STANDARD 595C

   EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE OTHER COLORS TO COMPLEMENT DECOR OR UNIQUE DESIGNS. THE SYMBOL CONTRAST SHALL BE LIGHT ON DARK OR DARK ON LIGHT

   FINISH AND CONTRAST: SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON–GLARE FINISH. SYMBOLS OR ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

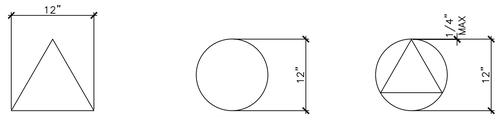
MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell1	*0.100 (2.5 mm)*
Distance between corresponding dots in adjacent cells1	*0.300 (7.6 mm)*
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below1	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

1

RESTROOM DOOR SYMBOLS TYPES

B



12" EQUILATERAL TRIANGLE 1/4" THICK WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY CBC SECTION 11B–703.7.2.6.1 TRIANGLE SHALL CONTRAST WITH DOOR

12"ø CIRCLE 1/4" THICK WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY CBC SECTION 11B–703.7.2.6.2 CIRCLE SHALL CONTRAST WITH DOOR

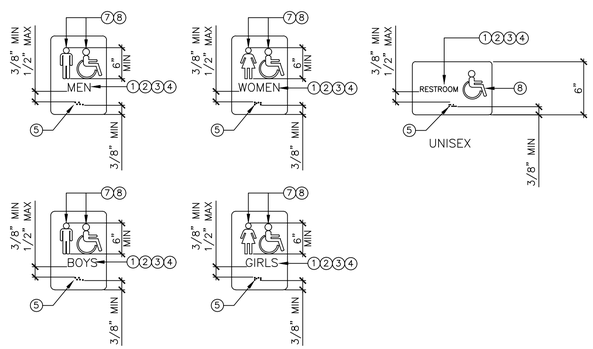
1/4" THICK TRIANGLE SUPERIMPOSED OVER 1/4" THICK CIRCLE, TRIANGLE MUST CONTRAST IN COLOR FROM THE CIRCLE & CIRCLE SHALL CONTRAST WITH THE DOOR CBC SECTION 11B–703.7.2.6.3

NOTES:

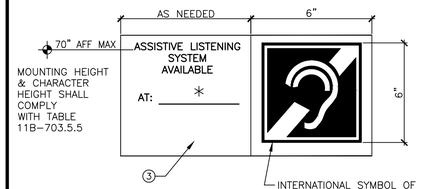
1. EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN OR CHAMFERED AT 1/8" MAX TYP.
2. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MIN AND 1/4" MAX TYP.

RESTROOM WALL SIGNAGE TYPES

A



TYPICAL SIGNAGE



L

FINISH FLOOR

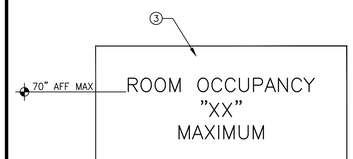
NOTES:

1. SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC. MOUNT WITH VANDAL RESISTANT FASTENERS
2. CBC SECTION 11B–216.10 ASSISITIVE LISTENING SYSTEMS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS COMPLYING WITH FIGURE 11B–703.7.2.4
3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS
4. SIGN SHALL HAVE A NON–GLARE FINISH AND BE DISPLAYED EITHER AS A NEGATIVE OR POSITIVE IMAGE WITHIN A SQUARE THAT IS A MINIMUM OF 6 INCHES ON EACH SIDE. THE SYMBOL MAY BE SHOWN IN BLACK AND WHITE OR IN COLOR. THERE SHALL BE AT LEAST A 70 PERCENT COLOR CONTRAST BETWEEN THE BACKGROUND OF THE SIGN FROM THE SURFACE THAT IT IS MOUNTED ON
5. SIGN PROVIDED BY DISTRICT UNO
6. CHARACTERS SHALL COMPLY WITH 11B–703.5

* SITE SPECIFIC INFORMATION PROVIDED BY ARCHITECT (TO BE INCLUDED AS PERMANENT PART OF SIGN)

ASSISTIVE LISTENING SYSTEM

4



K

FINISH FLOOR

NOTES:

1. SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC. MOUNT WITH VANDAL RESISTANT FASTENERS
2. SIGN PROVIDED BY DISTRICT UNO
3. OCCUPANT LOAD SIGN SHALL BE PROVIDED FOR ROOM OR SPACE WITH OCCUPANT LOAD OF 50 OR MORE. CBC 1004.9

OCCUPANCY SIGNAGE

3

GLOBAL MODULAR incorporated
450 COMMERCE AVE
ATWATER, CA 95301
PHONE (209)676–8029
FAX (209)676–8067

DSA A#: _____	FLOOR LIVE LOAD: _____
CBC EDITION: _____	ROOF LIVE LOAD: _____
MFG DATE: _____	WIND LOAD: _____
SEISMIC DESIGN PARAMETER: _____	ROOF SNOW LOAD: _____
DESIGN CLIMATE ZONE(S): ___	EXPOSURE CATEGORY: ___
SERIAL NUMBER: _____	

(2) METAL IDENTIFICATION LABELS ON THE BUILDING, ONE MECHANICALLY FASTENED AND VISIBLE FROM THE EXTERIOR AND THE OTHER MECHANICALLY FASTENED TO THE INTERIOR FRAME ABOVE THE CEILING AT THE END OF THE MODULE, BOTH LABELS STATING (IN ADDITION TO ANY OTHER INFORMATION BY THE DIVISION OF THE STATE ARCHITECT OR OTHER LAW) "COMPLIES WITH TITLE 24, PART 6 FOR ALL CLIMATE ZONES" OR LIST THE SPECIFIC CLIMATE ZONES THAT IT IS APPROVED FOR; AND THE PLANS SHALL IDENTIFY THE LOCATION OF THE 2 LABELS.

BUILDING ID TAG

SCALE: 1"=1'–0"

2

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Design · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGN

CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

SIGNAGE SPECIFICATIONS AND ACCESSIBLITY

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN I. OMELE · No. S 4497 · 12/31/25 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.4

ARCHITECTURAL COATINGS VOC LIMITS

COATING CATEGORY	CURRENT VOC LIMIT	CAL GREEN CODE REFERENCE
FLAT COATINGS	50	TABLE 5.504.4.3
NONFLAT COATINGS	100	TABLE 5.504.4.3
NONFLAT HIGH GLOSS COATINGS	150	TABLE 5.504.4.3
SPECIALTY COATINGS		
ALUMINUM ROOF COATINGS	400	TABLE 5.504.4.3
BASEMENT SPECIALTY COATINGS	400	TABLE 5.504.4.3
BITUMINOUS ROOF COATINGS	50	TABLE 5.504.4.3
BITUMINOUS ROOF PRIMERS	350	TABLE 5.504.4.3
BOND BREAKERS	350	TABLE 5.504.4.3
CONCRETE CURING COMPOUNDS	350	TABLE 5.504.4.3
CONCRETE/MASONRY SEALERS	100	TABLE 5.504.4.3
DRIVEWAY SEALERS	50	TABLE 5.504.4.3
DRY FOG COATINGS	150	TABLE 5.504.4.3
FAUX FINISHING COATINGS	350	TABLE 5.504.4.3
FIRE RESISTIVE COATINGS	350	TABLE 5.504.4.3
FLOOR COATINGS	100	TABLE 5.504.4.3
FORM RELEASE COMPOUNDS	250	TABLE 5.504.4.3
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	TABLE 5.504.4.3
HIGH TEMPERATURE COATINGS	420	TABLE 5.504.4.3
INDUSTRIAL MAINTENANCE COATING	250	TABLE 5.504.4.3
LOW SOLIDS COATINGS	120	TABLE 5.504.4.3
MAGSENITE CEMENT COATINGS	450	TABLE 5.504.4.3
MASTIC TEXTURE COATINGS	100	TABLE 5.504.4.3
METALLIC PIGMENTED COATINGS	500	TABLE 5.504.4.3
MULTICOLOR COATINGS	250	TABLE 5.504.4.3
PRETREATMENT WASH PRIMERS	420	TABLE 5.504.4.3
PRIMERS, SEALERS AND UNDERCOATS	100	TABLE 5.504.4.3
REACTIVE PENETRATING SEALERS	350	TABLE 5.504.4.3
RECYCLED COATINGS	250	TABLE 5.504.4.3
ROOF COATINGS	50	TABLE 5.504.4.3
RUST PREVENTATIVE COATINGS	250	TABLE 5.504.4.3
SHELLACS CLEAR OPAQUE	730 550	TABLE 5.504.4.3
SPECIALTY PRIMERS, SEALERS AND UNDERCOATS	100	TABLE 5.504.4.3
STAINS	250	TABLE 5.504.4.3
STONE CONSOLIDANTS	450	TABLE 5.504.4.3
SWIMMING POOL COATINGS	340	TABLE 5.504.4.3
TRAFFIC MARKING COATINGS	100	TABLE 5.504.4.3
TUB AND TILE REFINISH COATINGS	420	TABLE 5.504.4.3
WATERPROOFING MEMBRANE	250	TABLE 5.504.4.3
WOOD COATINGS	275	TABLE 5.504.4.3
WOOD PRESERVATIVES	350	TABLE 5.504.4.3
ZINC RICH PRIMERS	340	TABLE 5.504.4.3

ADHESIVES VOC LIMITS

ADHESIVES (ARCHITECTURAL APPLICATIONS)	CURRENT VOC LIMIT	CAL GREEN CODE REFERENCE
INDOOR CARPET ADHESIVES	50	TABLE 5.504.4.1
CARPET PAD ADHESIVES	50	TABLE 5.504.4.1
OUTDOOR CARPET ADHESIVES	150	TABLE 5.504.4.1
WOOD FLOORING ADHESIVES	100	TABLE 5.504.4.1
RUBBER FLOORING ADHESIVES	60	TABLE 5.504.4.1
SUBFLOOR FLOOR ADHESIVES	50	TABLE 5.504.4.1
CERAMIC TILE ADHESIVES	65	TABLE 5.504.4.1
VCT AND ASPHALT TILE ADHESIVES	50	TABLE 5.504.4.1
DRYWALL AND PANEL ADHESIVES	50	TABLE 5.504.4.1
COVE BASE ADHESIVES	50	TABLE 5.504.4.1
STRUCTURAL GLAZING ADHESIVES	100	TABLE 5.504.4.1
SINGLE PLY ROOF MEMBRANE ADHESIVES	250	TABLE 5.504.4.1
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	TABLE 5.504.4.1
SPECIALTY APPLICATIONS		
PVC WELDING	510	TABLE 5.504.4.1
CPVC WELDING	490	TABLE 5.504.4.1
ABS WELDING	325	TABLE 5.504.4.1
PLASTIC CEMENT WELDING	250	TABLE 5.504.4.1
ADHESIVE PRIMER FOR PLASTIC	550	TABLE 5.504.4.1
CONTACT ADHESIVE	80	TABLE 5.504.4.1
SPECIAL PURPOSE CONTACT ADHESIVE	250	TABLE 5.504.4.1
STRUCTURAL WOOD MEMBER ADHESIVE	140	TABLE 5.504.4.1
TOP AND TRIM ADHESIVE	250	TABLE 5.504.4.1
SUBSTRATE SPECIFIC APPLICATIONS		
METAL TO METAL	30	TABLE 5.504.4.1
PLASTIC FOAMS	50	TABLE 5.504.4.1
POROUS MATERIALS (EXCEPT WOOD)	50	TABLE 5.504.4.1
WOOD	30	TABLE 5.504.4.1
FIBERGLASS	80	TABLE 5.504.4.1

SEALANT VOC LIMITS

SEALANTS	CURRENT VOC LIMIT	CAL GREEN CODE REFERENCE
ARCHITECTURAL	250	TABLE 5.504.4.2
MARINE DECK	760	TABLE 5.504.4.2
NONMEMBRANE ROOF	300	TABLE 5.504.4.2
ROADWAY	250	TABLE 5.504.4.2
SINGLE PLY ROOF MEMBRANE	450	TABLE 5.504.4.2
OTHER	420	TABLE 5.504.4.2
SEALANT PRIMERS		
ARCHITECTURAL NONPOROUS POROUS	250 775	TABLE 5.504.4.2
MODIFIED BITUMINOUS	500	TABLE 5.504.4.2
MARINE DECK	760	TABLE 5.504.4.2
OTHER	750	TABLE 5.504.4.2

FORMALDEHYDE VOC LIMITS

PRODUCTS	CURRENT LIMITS	CAL GREEN CODE REFERENCE
HARDWOOD PLYWOOD VENEER CORE	0.05	TABLE 5.504.4.5
HARDWOOD PLYWOOD COMPOSITE CORE	0.05	TABLE 5.504.4.5
PARTICLEBOARD	0.09	TABLE 5.504.4.5
MEDIUM DENSITY FIBERBOARD	0.11	TABLE 5.504.4.5
THIN MEDIUM DENSITY FIBERBOARD	0.13	TABLE 5.504.4.5

LOUDNESS COMPARISON CHART

COMMON OUTDOOR ACTIVITIES	NOISE LEVEL	COMMON INDOOR ACTIVITIES
JET FLY OVER AT 1,000 FT	110	ROCK BAND
CAS LAWN MOWER AT 3 FT	100	
	90	FOOD BLENDER AT 3 FT
DIESEL TRUCK AT 50 FT AT 50 MPH	80	GARBAGE DISPOSAL AT 3 FT
NOISY URBAN AREA, DAYTIME		
GAS LAWN MOWER AT 100 FT	70	VACUUM CLEANER AT 10 FT
COMMERCIAL AREA		NORMAL SPEECH AT 3 FT
HEAVY TRAFFIC AT 300 FT	60	LARGE BUSINESS OFFICE
QUIET URBAN, DAYTIME	50	DISHWASHER NEXT ROOM
QUIET URBAN, NIGHT TIME	40	THEATRE
QUIET SUBURBAN, NIGHT TIME		LARGE CONFERENCE ROOM BACKGROUND
QUIET RURAL, NIGHT TIME	30	LIBRARY
		BEDROOM AT NIGHT
		CONCERT HALL, BACKGROUND
	20	BROADCAST / RECORDING STUDIO
	10	
LOWEST THRESHOLD OF HUMAN HEARING	0	LOWEST THRESHOLD OF HUMAN HEARING

GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE
2. ALL FILTERS SHALL HAVE A MERV RATING OF 8 OR GREATER.
3. PER CALGREEN SECTION 5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION SHALL BE PERFORMED AT THE END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDING. ALL EXPOSED DUCTWORK AND EQUIPMENT SHALL BE COVERED
4. WHEN REQUIRED, EXTERIOR WINDOWS SHALL COMPLY WITH CALGREEN SECTION 5.507.4.1 FOR EXTERIOR NOISE TRANSMISSION. MIN STC 40 RATING. SEE SHEET A0.3 FOR REFERENCE.
5. PER CALGREEN SECTION 5.504.4.6: WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.
6. PER CALGREEN SECTION 5.504.4.6.1 DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT THE RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS

ACOUSTICAL CONTROL

WHEN THE PC (OR BLDG) IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH THE CALGREEN CODE SECTION 5.507.4 FOR THE SPECIFIC SITE LOCATION, AND WHEN THE NEW PC (OR BLDG) IS PLACED ADJACENT TO ANOTHER EXISTING PC BUILDING (WITH ZERO SEPARATION), THE ADJOINING WALL SECTION FOR INTERIOR SOUND TRANSMISSION MUST MEET THE MINIMUM REQUIREMENT OF A STC RATING OF 40 PER CALGREEN SECTION 5.507.4.3

MID VALLEY DISPOSAL
www.midvalleydisposal.com

September 14, 2020

Global Modular, Inc
Aaron Hamilton
1120 Commerce Avenue #25
Atwater, CA 95301

RE: Construction Project at 1120 Commerce Avenue #25

Dear Mr.Hamilton,

The purpose of this letter is to provide you with the Construction Process for project location of 1120 Commerce Avenue #25

Mid Valley Disposal provided the roll-off services for this project and estimated the material type in each load delivered to Fairmead landfill.

Mid Valley Disposal has provided the diversion report showing materials that were segregated from trash materials. We received a Waste Management Plan from Martin Sanchez, showing 20 tons of metal he hauled and recycled.

When materials are mixed in a roll-off bin during a project, there is contamination and less diversion from landfill.

If you would like to meet a higher diversion rate for construction and demolition projects, please notify Mid Valley Disposal before the project begins and we can assist your company in meeting State requirements.

If you have any questions, please feel free to call me at 559-567-0521

Regards,

Ivette Rodriguez
Mid Valley Disposal

PO Box 12385 Fresno, CA • P 559.237.9425 • www.midvalleydisposal.com

Mid Valley Disposal Diversion Report

Reporting Period:	2020
Customer Name:	Global Modular
Customer # :	65694500
Address:	1120 Commerce Avenue #25
	Atwater CA 95301
LEED Project Name:	Global Modular

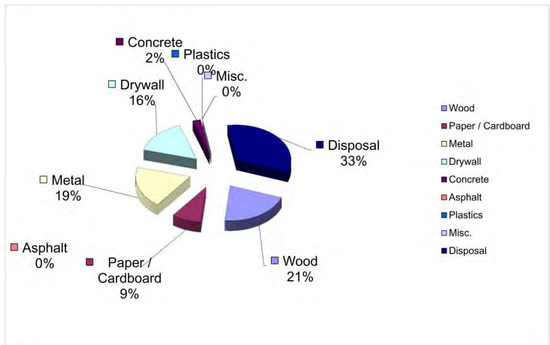
MID VALLEY DISPOSAL
www.midvalleydisposal.com

YTD Recycling Rate
77%

Total Loads	29
Total Tons	131.26
Tons Recycled	101.1
Tons Disposed	50.2

YTD	Wood	Paper / Cardboard	Metal	Drywall	Concrete	Asphalt	Plastics	Misc.	Disposal
Material Tons	31.7	13.2	28.7	24.0	3.5	0.0	0.0	0.0	50.2
Diversion %	24%	10%	22%	18%	3%	0%	0%	0%	38%

Recycling % Rate	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	46%	27%	76%	85%	74%	76%	75%	73%	75%	0%	0%	0%



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APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

CAL GREEN SPECS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
EXP. 12/31/25
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
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DATE:	00-00-00

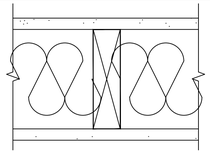
SHEET NUMBER

A0.6

4

8

3



UL DESIGN U309 / GA FILE NUMBER WP 3261: 1 HR RATING/ STC RATING 50-54
ONE LAYER 5/8" PROPRIETARY TYPE X PAPER FACED OR GLASS MAT
FACED GYPSUM PANEL PRODUCT (SOUND BOARD) APPLIED PARALLEL TO EACH SIDE OF 2X4
WOOD STUDS 24" O.C. W/6D COATED NAILS. 1 7/8" LONG. 0.0915" @ 7" O.C.

JOINS STAGGERED 24" O.C. ON OPPOSITE SIDES. SOUND TESTED WITH 3 1/2" FIBERGLASS
INSULATION FRICTION FIT INTO STUD SPACE. (LOAD BEARING)

PROPRIETARY GYPSUM PANEL PRODUCT:
5/8" TYPE X COMFORTGUARD SOUND DEADENING GYPSUM BOARD.

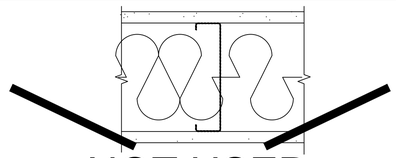
THICKNESS: 4 7/8"
APPROX WEIGHT: 7 PSF
SOUND TEST: OL 11-0608, 6-15-11

FIRE TEST: UL R6937, 06NK17962, 2-17-07
09NK05706, 4-13-09
UL DESIGN U309

INTERIOR WALL ASSEMBLY STC 50-54

SCALE: 3" = 1'-0"

2



NOT USED

GA FILE NUMBER WP 10072: 1 HR RATING /STC RATING 45-49
ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR 3/8" PLYWOOD VENEER BASE APPLIED
PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 3 5/8" STEEL STUDS 24" O.C. WITH
1" TYPE S DRYWALL SCREWS 8" O.C AT VERTICAL JOINTS AND 12" O.C AT FLOOR AND
CEILING RUNNERS AND INTERMEDIATE STUDS

JOINTS STAGGERED 24" ON EACH SIDE AND ON OPPOSITE SIDES. SOUND TESTED
WITH 3 1/2" GLASS FIBER FRICTION FIT INTO STUD SPACE

THICKNESS: 4 7/8"
APPROX WEIGHT: 6 PSF
SOUND TEST: NRCC 816-NV, 2-3-81

FIRE TEST: SEE WP 1350 (FM WP-45, 6-19-68
OSU T-1770, 8-61;
ULC 79T484, 79T500,
79T497 8-21-81
ULC DESIGN W415)

INTERIOR WALL ASSEMBLY STC 45-49

SCALE: 3" = 1'-0"

1

7

NOTE:
NO FASTENERS INSTALLED AT
SLIP TRACK AND GYP
BOARD

INTERIOR SOUND WALL

SCALE: 3" = 1'-0"

B

NOTE:
NO FASTENERS INSTALLED AT
SLIP TRACK AND GYP
BOARD

INTERIOR SOUND WALL

SCALE: 3" = 1'-0"

A

8

7

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SHEET TITLE:

STC CONSTUCTION DETAILS

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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PROJECT NO.:	00-0000
DRAWN BY:	00
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DATE:	00-00-00

SHEET NUMBER

A0.7

TEST AND INSPECTIONS FORM DSA 103

The example form DSA-103(s) 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 all example form DSA-103s are to be crossed out on this drawing.

Relocatable Steel Moment Frame Building

X INDICATES TEST OR INSPECTION TO BE DONE - - - INDICATES NOT APPLICABLE

TESTS or INSPECTIONS (as listed on form DSA-103)				STOCKPILE		CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING (diaphragm or foundation material)			RELOCATION OF CERTIFIED RELOCATABLE BUILDING	
				Form DSA-103 for each applicable option:						
MATERIAL TYPE		DSA 103 Item #	DESCRIPTION	A Wood Floor Only	B Concrete Floors	C (Note 5) Plywood Floor Only – Wood Foundation	D Plywood Floor – Concrete Foundation	E Concrete Floor – Concrete Foundation	F Wood Foundation	G Concrete Foundation
SOILS	**GENERAL (Note 4)**	S1.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, and • Materials below footings are adequate to achieve the design bearing capacity.	---	---	---	X	X	---	X
		S2.a	Perform classification and testing of fill materials.	---	---	---	X	X	---	X
		S2.b	Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	---	---	---	X	X	---	X
		S2.c	S2.c Compaction testing.	---	---	---	X	X	---	X
CONCRETE	**NON-FOUNDATION CONCRETE**	C1.c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	---	X	---	---	X	---	---
		C1.d	Test concrete (f'C).	---	X	---	---	X	---	---
		C1.e	Batch plant inspection.	---	X	---	---	X	---	X
		C6.a	Inspect placement of concrete, reinforcing and embedded items in elevated floor/roof - by RBIP.	---	X	---	---	X	---	X
	FOUNDATION	C1.a	Verify use of required design mix.	---	---	---	X	X	---	X
		C1.b	Identify, sample and test reinforcing steel. (See Note 1 for Waiver for one-story.)	---	X	---	X	X	---	X
		C1.c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	---	---	---	X	X	---	X
		C1.d	Test concrete (f'C).	---	---	---	X	X	---	X
		C1.e	Batch plant inspection. (Note 7)	---	---	---	X	X	---	X
CONCRETE (Cont'd)	**POST-INSTALLED ANCHORS (Note 2)**	C5.a	Inspect installation of post-installed anchors.	---	---	---	X	X	---	X
		C5.b	Test post-installed anchors.	---	---	---	X	X	---	X
STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	**VERIFICATION OF MATERIALS, EQUIPMENT, WELDERS, ETC.**	S/A1.a	• Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	X	X	X	X	X	---	---
		S/A1.b	Test unidentified materials.	X	X	X	X	X	---	---
		S/A1.c	Examine seam welds of HSS shapes.	X	X	X	X	X	---	---
		S/A1.d	Verify and document steel fabrication per DSA-approved construction documents.	X	X	X	X	X	---	---
		S/A3.a	Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	X	X	X	X	X	---	---
		S/A3.b	Verify weld filler material manufacturer's certificate of compliance.	X	X	X	X	X	---	---
		S/A3c	Verify WPS, welder qualifications and equipment.	X	X	X	X	X	---	---
	SHOP WELDING (Note 3)	S/A4.a	Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds.	X	X	X	X	X	---	---
		S/A4.b	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	X	X	X	X	X	---	---
		S/A4.c	Inspect welding of stairs and railing systems. (See Note 6)	X	X	X	X	X	---	---
		S/A4.d	Verification of reinforcing steel weldability other than ASTM A706	X	X	---	X	X	---	X
		S/A4.e	Inspect welding reinforcing steel.	X	X	---	X	X	---	X

TEST AND INSPECTIONS FORM DSA 103 (CONT)

The example form DSA-103(s) 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 all example form DSA-103s are to be crossed out on this drawing.

Relocatable Steel Moment Frame Building

X INDICATES TEST OR INSPECTION TO BE DONE - - - INDICATES NOT APPLICABLE

TESTS or INSPECTIONS (as listed on form DSA-103)				STOCKPILE		CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING (diaphragm or foundation material)			RELOCATION OF CERTIFIED RELOCATABLE BUILDING	
				Form DSA-103 for each applicable option:						
MATERIAL TYPE		DSA 103 Item #	DESCRIPTION	A Wood Floor Only	B Concrete Floors	C (Note 5) Plywood Floor Only – Wood Foundation	D Plywood Floor – Concrete Foundation	E Concrete Floor – Concrete Foundation	F Wood Foundation	G Concrete Foundation
STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES (Cont.)	**FIELD WELDING (Note 3)**	S/A5.a	Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds.	---	---	X	X	X	---	X
		S/A5.b	Inspect single-pass fillet welds ≤ 5/16.	---	---	X	X	X	---	X
		S/A5.c	Inspect end-welded studs (ASTM A-108) installation (including bend test).	---	---	---	X	X	---	---
		S/A5.d	Inspect floor and roof deck welds.	---	X	---	---	X	---	---
		S/A5.e	Inspect welding of structural cold-formed steel ***Periodic/Special Inspector.***	X	X	X	X	X	---	---
		S/A5.f	Inspect welding of stairs and railing systems. (See Note 6)	---	---	X	X	X	---	X
	NONDESTRUCTIVE TESTING (Note 8)	S/A6a	**Ultrasonic** 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.	X	X	X	X	X	---	---
		S/A6b	Magnetic Particle 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.	X	X	X	X	X	---	---
	OTHER STEEL	S/A11.a	Shop Welding - Inspect welding of cold-formed steel ***Periodic/Special Inspector.***	X	X	X	X	X	---	---
		S/A11.b	Shop Welding - Inspect welding of steel floor deck welds Periodic/Special ***Inspector.***	---	X	---	---	X	---	---
OTHER – SHOT PINS (Two-Story Modular)		X1.a	Ceiling wire hangers (pins in metal deck with concrete fill) ***Test/Lab.***	---	X	---	---	X	---	---

Additional information for PC designs only, not to be added to DSA-103

Additional Information for PC designs only, not to be added to DSA-103			
	STOCKPILE	**CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING**	**RELOCATION OF CERTIFIED RELOCATABLE BUILDING**
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single-Story Site: Class 2 for Two-Story	Class 4 for Single-Story Class 2 for Two-Story
SELECTION OF THE PROJECT INSPECTOR AND TESTING/SPECIAL INSPECTION AGENCY	Selected and Employed by the Testing Lab Approved by DSA, A/E of Record and Structural Engineer	By the School District and approved by DSA and A/E responsible for in-plant construction observation	By the Owner (not manufacturer) and approved by DSA, A/E of Record and Structural Engineer
COST OF THE PROJECT INSPECTOR (CAC, Section 4-333[b]) AND TESTING/SPECIAL INSPECTION AGENCY (CAC, Section 4-335[b])	By the Owner (not manufacturer)	By the School District	

NOTES:

Note 1: Reinforcing steel tests may be waived for one-story buildings, per CBC, Section 1910A.2.

Note 2: Required only where the details of the PC specify the use of this type of anchor.

Note 3: Required only where the details of the PC specify this welding.

Note 4: These tests and inspections are applicable only when a geotechnical report is required.

Note 5: Wood foundations are not permitted for permanent modular buildings per CBC Section 1807A.1.4.

Note 6: These tests and inspections are applicable only when stairs and ramps are part of the scope of work.

Note 7: 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

Note 8: Nondestructive testing inspection is to be determined by AOR/DSA per project specific requirements. UT testing shall be performed on 100% of complete joint penetration groove welds columns have a thickness of $\frac{5}{16}$" or greater.
Magnetic particle testing shall be performed on 25% of all beam-to-column complete joint penetration groove welds.
*NDT of complete joint penetration welds at gravity connections shall comply with AISC 360 Chapter N per CBC Section 1705A2.1

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.

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
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PROJECT NAME:

SHEET TITLE:

DSA DOCUMENTS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

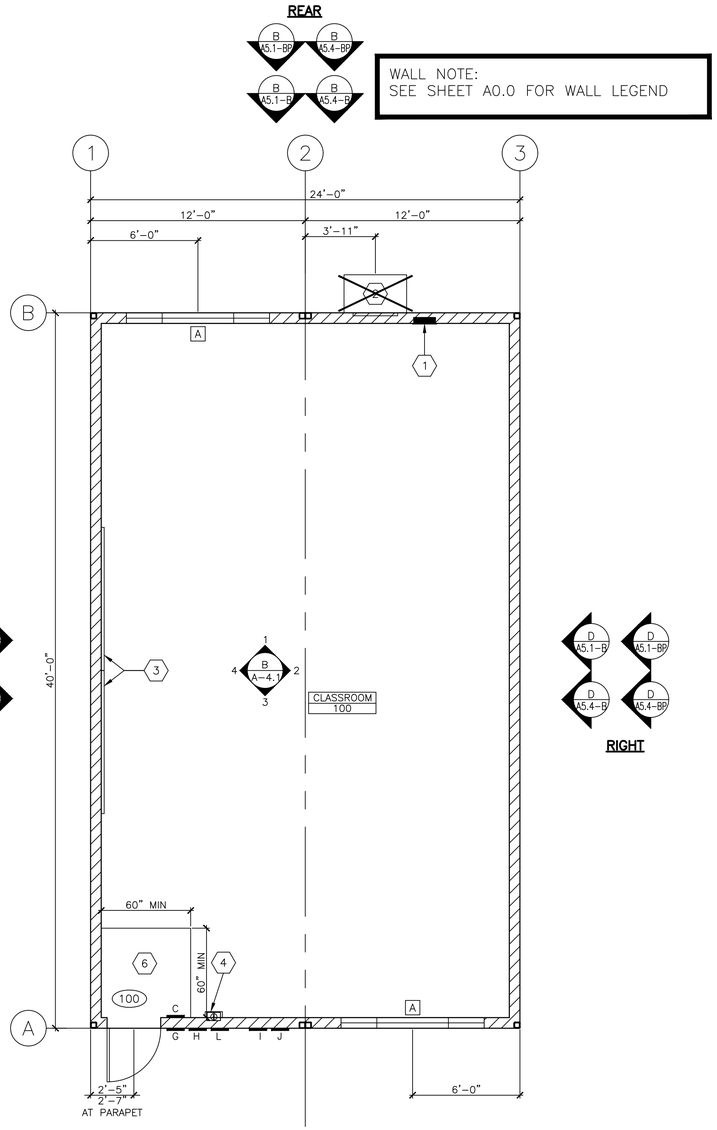
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A0.8

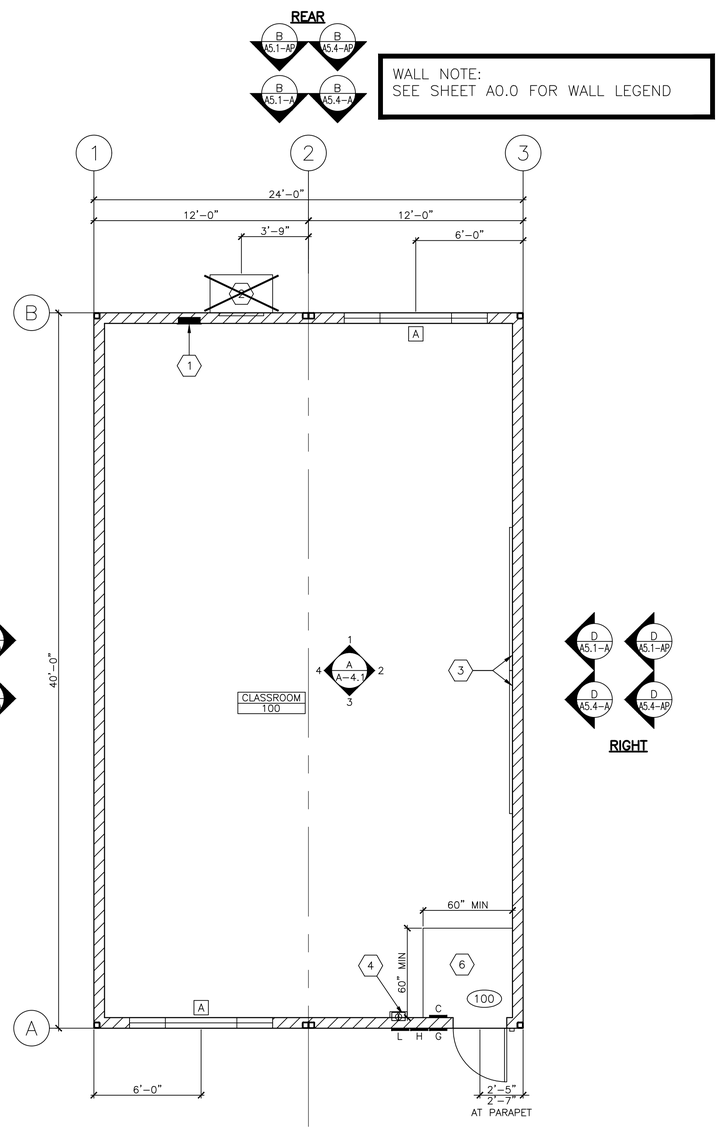


OPTION B (LEFT HAND)

FLOOR PLAN 24'x40'

SCALE: 1/4" = 1'–0"

B



OPTION A (RIGHT HAND)

FLOOR PLAN 24'x40'

SCALE: 1/4" = 1'–0"

A

KEY NOTES

1. ELECTRICAL PANEL (SEE #4 OR #10/A8.1 AND ELECTRICAL SHEETS)
2. ~~AC UNIT (SEE MECHANICAL SHEETS)~~
3. 8'x4' MARKER BOARDS +30" AFF
4. FIRE EXTINGUISHER–5 LB DRY CHEMICAL W/ 2–A:20–B:C UL RATING +48" AFF TO TOP OF HANDLE IN SEMI–RECESSED CABINET WITH 4" MAX PROJECTION, TYP. SEE #4 OR #10/A8.1 FOR BLOCK–OUT
5. RAMP AND LANDING (SEE RAMP DETAILS, 'R' SHEETS)
6. PRIMARY ENTRANCES SHALL REQUIRE A MIN 48" OVERHANG OR AWNING OR RECESSED AREA OR OTHER APPROPRIATE METHOD INCLUDING A 60" X 60" MIN FLOOR AREA USING VCT OR SHEET VINYL WHEN USING CARPET FLOORING PER CALGREEN SECTION 5.407.2.2.1

SIGNAGE LEGEND

C. = EXIT TACTILE SIGN – # C/A0.4
E. = EXIT RAMP DOWN SIGN # E/A0.4
G. = ID SIGN – # G/A0.4
H. = ID SIGN WITH ISA IDENTIFICATION – # H/A0.4
I. = FLOOR LIVE LOAD
J. = ROOF SNOW LIVE LOAD
L = ASSISTIVE LISTENING – L/A0.4

OCCUPANT LOAD FORMULA

BUILDING SQUARE FOOTAGE	960 SQ FT
OCCUPANT NET PER TABLE 1004.5:	20
MAXIMUM OCCUPANTS	48

GENERAL NOTES

1. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON COVER SHEET PROVIDED AND INSTALLED BY DISTRICT ON SITE, SEE ACCESS SHEET
2. WHEN USING A RAMP OPTION AS SHOWN NEXT TO AN ADJACENT WINDOW, IT MUST COMPLY WITH THE ILLUSTRATION ON 18/R0.0 THE FOLLOWING TWO OPTIONS CAN BE CONSIDERED:

   OPTION #1: USE A RAMP CONFIGURATION THAT IS AWAY FROM THE BUILDING, RAMP HANDRAIL 1 ½" MIN. CLR. FROM BUILDING LINE.

   OPTION #2: THE WINDOW SILL HEIGHT NEEDS TO BE ELEVATED OR LOCATED IN A MANNER TO ACCOMMODATE THE CODE COMPLIANCE ILLUSTRATION MENTIONED ON 18/R0.0. EXAMPLE USE AN 8x3 WINDOW AND SMALLER IN LIEU OF 8x4 WINDOW.
3. WHEN RAMPS AND LANDINGS ARE USED, DOWNSPOUT DRAINAGE MUST DIVERT AWAY FROM CLEAR LANDING SPACE

A

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PROJECT NAME:

SHEET TITLE:

FLOOR PLAN
24'X40'

REFER TO A1.1-PS, A1.2-PS, A1.3-PS, A1.4-PS, A1.5-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

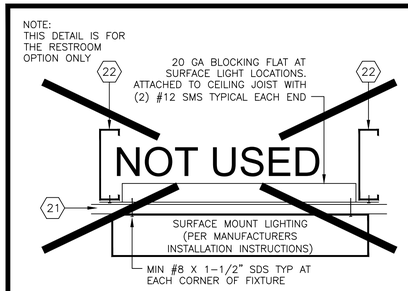
ARCHITECT OF RECORD

REVISIONS
1 .
2 .
3 .
4 .

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

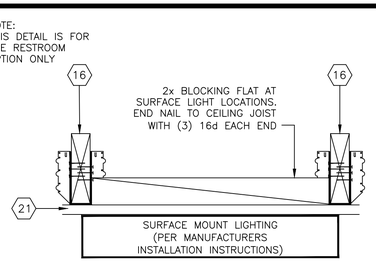
A1.1



SURFACE MOUNT LIGHT–STEEL STUD

SCALE: NTS

16



SURFACE MOUNT LIGHT–WOOD STUD

SCALE: NTS

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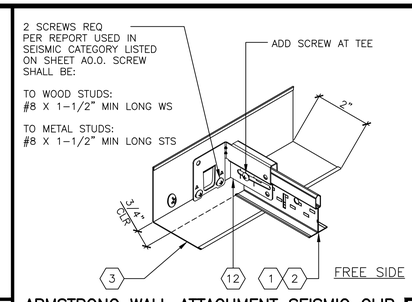

ARMSTRONG WALL ATTACHMENT SEISMIC CLIP

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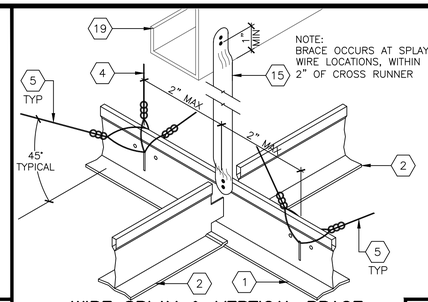
6



WIRE SPLAY & VERTICAL BRACE

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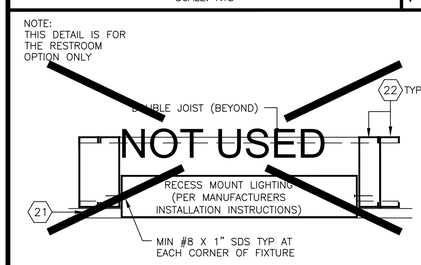

RECESSED MOUNT LIGHT–STEEL STUD

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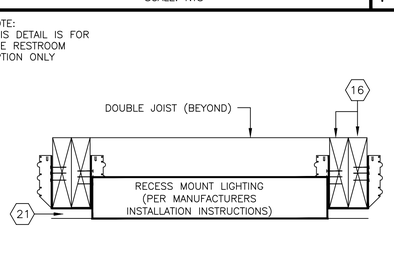

RECESSED MOUNT LIGHT–WOOD STUD

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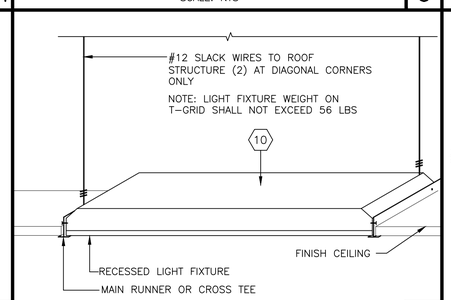
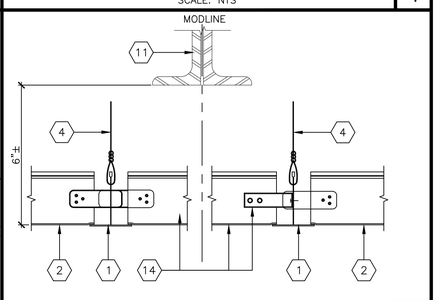


T–GRID LIGHT FIXTURE DETAIL

SCALE: NTS

7



CEILING GRID AT MODLINE

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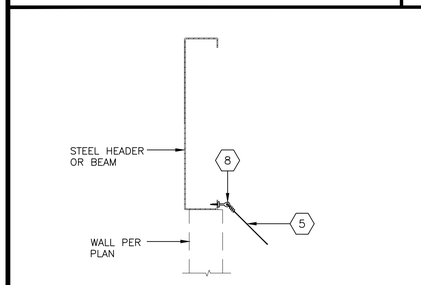
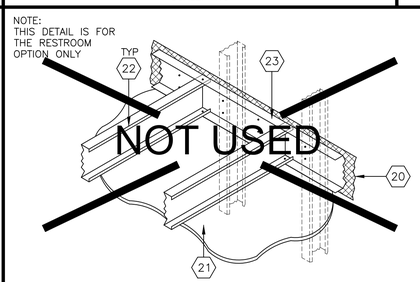
2



ALTERNATE SPLAY WIRE ATTACHMENT

SCALE: NTS

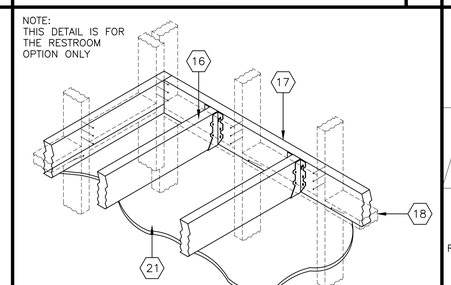
18



GYPSUM CEILING–STEEL STUD

SCALE: NTS

13



GYPSUM CEILING–WOOD STUD

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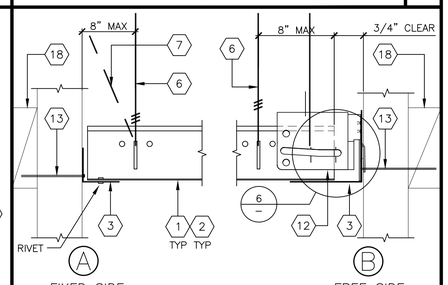

CEILING GRID AT WALL

SCALE: NTS

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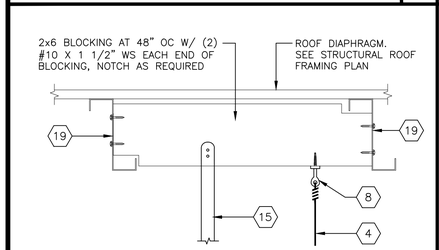
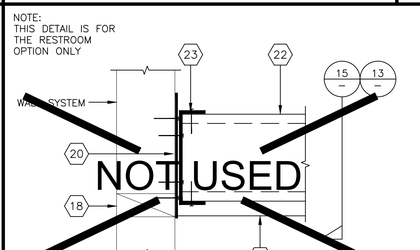


ALT ATTACHMENTS

SCALE: NTS

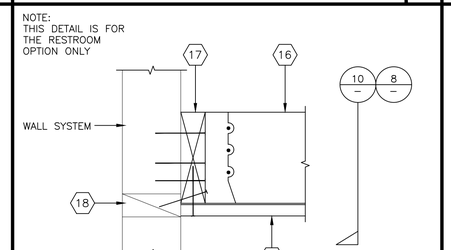
19



GYPSUM CEILING–STEEL STUD & JOIST

SCALE: NTS

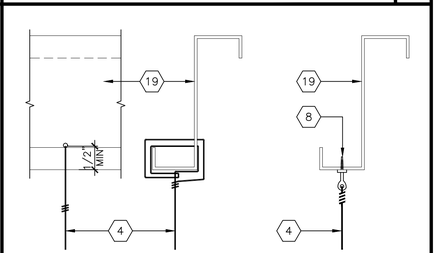
14



GYPSUM CEILING–WOOD STUD & JOIST

SCALE: NTS

9



HANGER WIRE ATTACHMENT

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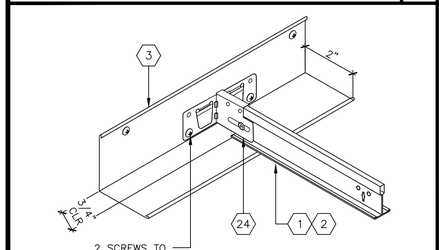
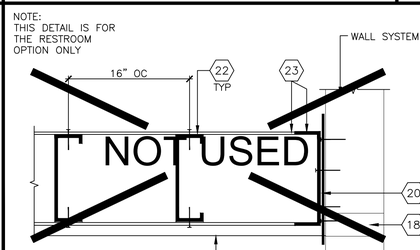


USG WALL ATTACHMENT SEISMIC CLIP

SCALE: NTS

20



GYPSUM CEILING SECTION–STEEL STUD

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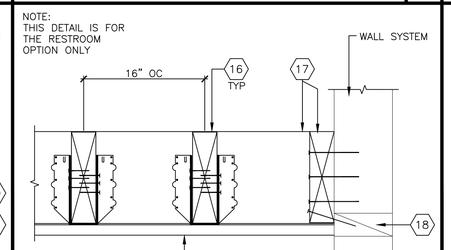

GYPSUM CEILING SECTION–WOOD STUD

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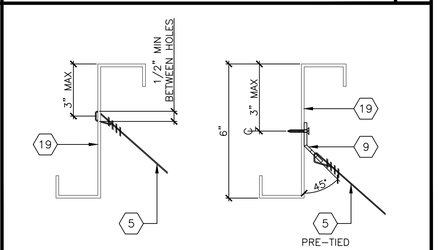

SPLAY WIRE ATTACHMENT

SCALE: NTS

5

KEY NOTES

1. MAIN RUNNER: 'ARMSTRONG' 7301 PRELUDE XL SERIES, HEAVY DUTY SPACE AT 4'–0" OC WITH HANGER WIRES SPACED AT 4'–0" OC MAX (ICC REPORT #ESR–1308). ALT: 'DONN DXL–26 SIMPLICITEE XL SERIES, HEAVY DUTY (ICC REPORT #ESR–1222)
2. CROSS TEE: 'ARMSTRONG' 7340 PRELUDE XL SERIES (ICC REPORT #ESR–1308). ALT: 'DONN DXL–216 SIMPLICITEE XL SERIES (ICC REPORT #ESR–1222)
3. WALL RUNNER: 'ARMSTRONG' 7800 WALL MOLDING. ALT: 'DONN' M20 WALL ANGLE
4. TYPICAL HANGER WIRE: 12 GA STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (3) TIGHT TURNS WITHIN 1–1/2" SADDLE TIE (SEE DETAIL 4)
5. TYPICAL SPLAY WIRE: 12 GA STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1–1/2" (SEE DETAIL 1 & 5)
6. AT THE END OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF ANY WALL OR SOFFIT OR 1/4 OF THE LENGTH OF THE END RUNNER, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING
7. ALTERNATE HANGER WIRE: HANGER WIRE TO 3"x1/4" EYED SCREW AT TOP PLATE WITH (4) TIGHT TURNS WITHIN 1–1/2" (SEE GENERAL NOTE #1)
8. EYE SCREW 1/4"ø x 2" LONG ZINC PLATED SELF–TAPPING, SELF DRILLING EYE LAG SCREW ATTACHED TO BEAM LIP
9. 1" X 1" X 2" LONG, 12 GA ANGLE BENT AT A 45° WITH 12 GA WIRE (4 TIGHT TURNS) ATTACH BENT ANGLE TO MEMBER WITH #10 STS
10. LIGHT FIXTURE ATTACHED TO GRID WITH (4) #8 SMS (2) AT EACH END OF FIXTURE AND (2) 12 GA SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND THE ROOF STRUCTURE ABOVE
11. ROOF TRUSS
12. 'ARMSTRONG' BERC–2 CLIP: BEAM ENDING RETAINING CLIP JOINS MAIN BEAM OR CROSS TEE TO WALL MOLDING AND WEB OF GRID (ICC REPORT #ESR–1308)
13. AT FREE SIDE, USE 6d NAIL @ 16" OC INTO WOOD BLOCK/STUD OR #8x2" SMS INTO METAL STUD BLOCK. AT FIXED SIDE, USE MIN #10 X 2" WS AT 16" OC INTO WOOD BLOCK/STUD OR MIN #10 X 2" SMS INTO METAL STUD BLOCK
14. CLOSE OFF CROSS TEE: INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH BAYONET CUT OPPOSITE END TO FIT (IF LESS THAN 24") INSERT CROSS TEE ADAPTER CLIP AND SECURE TO CROSS TEE WITH (2) #8 TEK SCREWS AT EACH END
15. VERTICAL BRACE: 1/2" STEEL EMT AT SPLAY WIRE LOCATIONS (MAX LENGTH OF 3'–0") DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE OR TO BLOCKING WITH (2) #12 SCREWS @ TOP & BOTTOM (SEE DETAIL 1)
16. 2x4 HF #2 MIN CEILING JOIST AT 16" OC ATTACH TO LEDGER WITH 'SIMPSON' U–24 JOIST HANGER AT EACH END OF SINGLE JOIST USE 'SIMPSON' U24–2 AT DOUBLE JOIST
17. 2x4 HF #2 MIN CONTINUOUS LEDGER ATTACH TO STUDS WITH (3) 16d NAILS @ 16" OC & (2) 16d NAILS EACH BLOCK
18. FIRE BLOCKING BETWEEN STUDS (BLOCKING SIZE TO MATCH STUD SIZE AND TYPE) AT CEILING HEIGHT
19. ROOF JOIST (SEE ROOF FRAMING SHEET)
20. 6" X 20 GA STRAP ATTACHED TO STUDS WITH (2) #10 STSMS PER STUD
21. GYP BOARD CEILING (SEE FINISH SCHEDULE) USE DRYWALL NAILS FOR WOOD STUDS OR # 8 STS FOR METAL STUDS SPACING TO BE 6" OC MAX EDGES AND 12" OC MAX FIELD
22. C–3 1/2" X 20 GA CEILING JOIST AT 16" OC. ATTACH TRACK TO JOIST WITH #8 STS AT EACH FLANGE OF TRACK
23. C–3 1/2" X 20 GA CONT TRACK. ATTACH TRACK TO WALL STUDS WITH (2) #10 STS AT EACH WALL STUD SPACING
24. ALT: 'DONN' ACM7 WALL ATTACHMENT CLIP (ICC REPORT #ESR–1222)

GENERAL NOTES

1. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB ARE TO HAVE COUNTER–SLOPING WIRES INSTALLED HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE
2. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN (2) ADJACENT WALLS CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" CLEAR OF OTHER WALLS IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS TEES SHOULD BE FREE, AND MINIMUM OF 3/4" CLEAR OF WALL
3. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN RUNNERS OR CROSS TEES ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS & TEES AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED
4. PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND (4) 12 GA SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER (SEE DETAIL 1) FOR SCHOOL BUILDINGS, PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12'x12' OC LOCATE BRACING ASSEMBLIES NOT MORE THAN 6' FROM EACH PERIMETER WALL
5. SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ FT OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO (2) ADJACENT WALLS
6. ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS, TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES SCREWS OR APPROVED FASTENERS ARE REQUIRED
7. LIGHT FIXTURES WEIGHING GREATER THAT 10 LBS. BUT LESS THAN 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF (2) #12 GA SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING GREATER THAN 56 LBS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GA WIRES ATTACHED TO THE HOUSING AND THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GA WIRES , INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR TIMES (4) THE WEIGHT OF THE UNIT.
8. DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4'–0" AND SHALL NOT BE CLOSER THAN 6" TO ANY WIRE SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC
9. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST (2) POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY 12 GA WIRE SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE
10. NOT USED
11. DETAILS SHALL COMPLY WITH DSA IR 25–2

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
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PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMEARA
No. S 4497
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

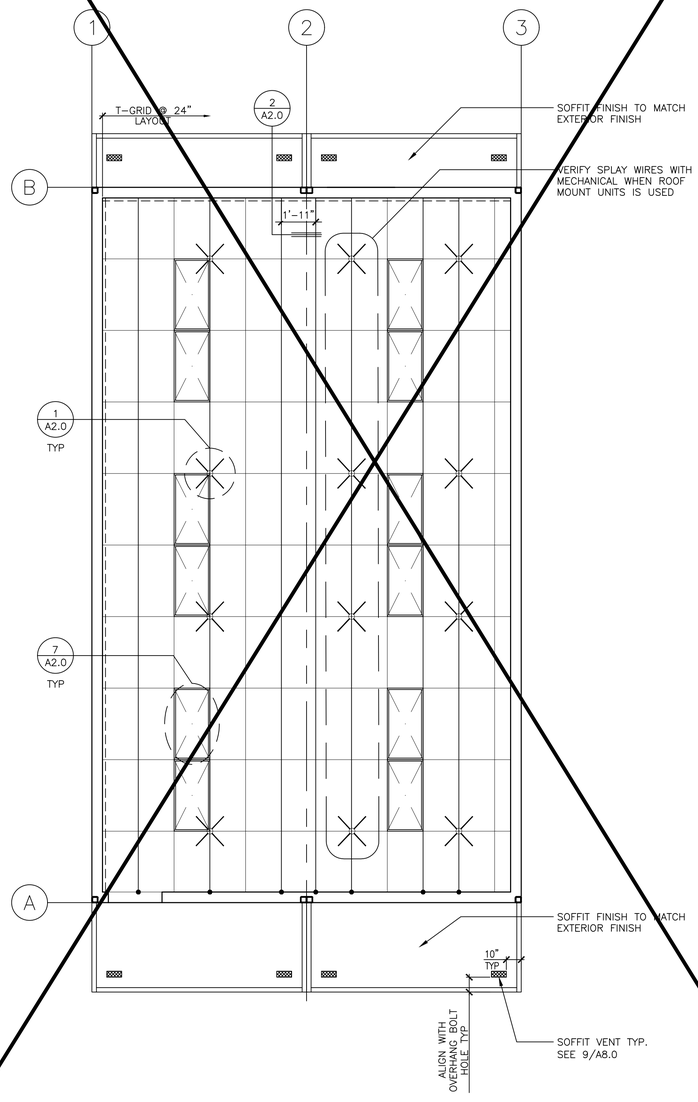
A2.0

MAXIMUM LIGHTS FOR 960 SF CLASSROOM (CHECK ONE):

☐ STANDARD: 12 LIGHTS AS SHOWN

☐ ALTERNATE #1: 10 LIGHTS

NOTE: CROSS-OUT/'X' OUT LIGHTS THAT ARE NOT USED. THE 24X40 CLASSROOM IS APPROVED FOR A MAXIMUM 12 LIGHTS AS SHOWN



REFLECTED CEILING PLAN OPTION B

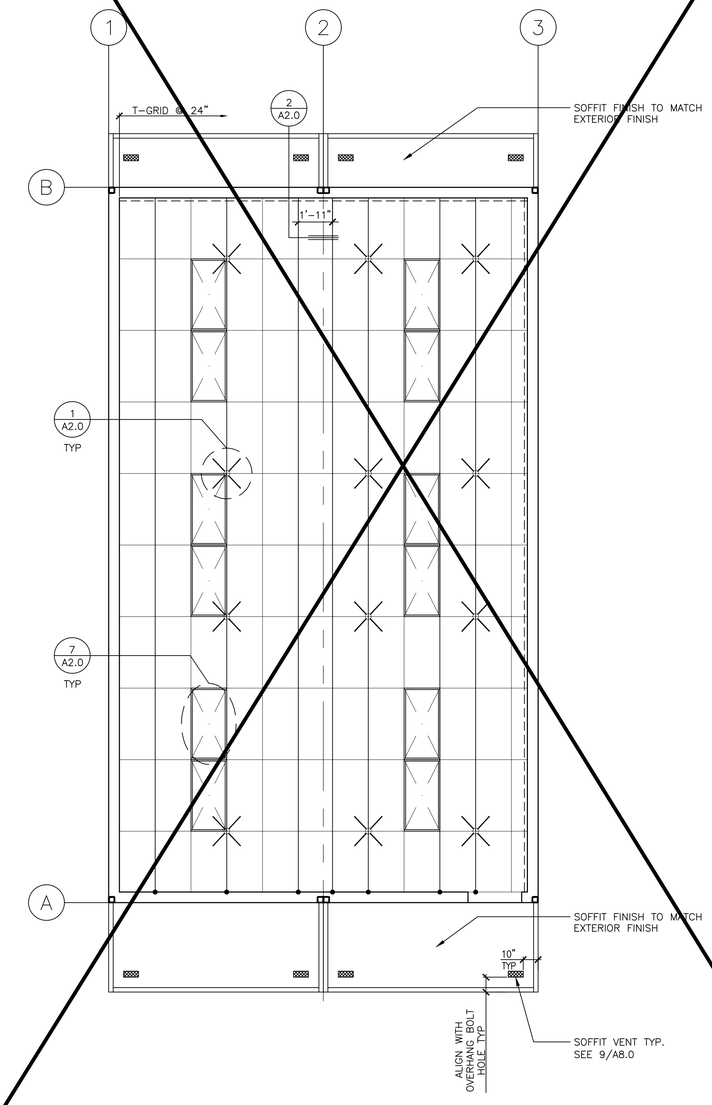
SCALE: 1/4" = 1'-0"

MAXIMUM LIGHTS FOR 960 SF CLASSROOM (CHECK ONE):

☐ STANDARD: 12 LIGHTS AS SHOWN

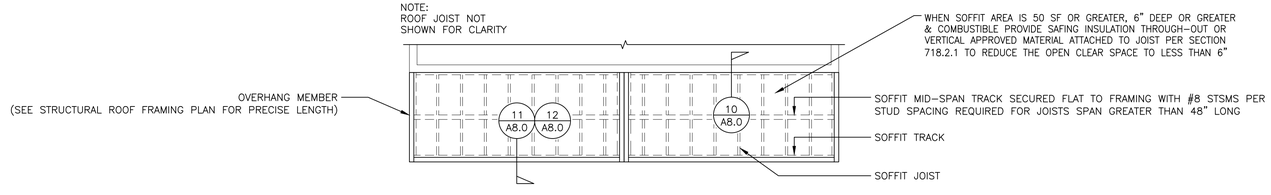
☐ ALTERNATE #1: 10 LIGHTS

NOTE: CROSS-OUT/'X' OUT LIGHTS THAT ARE NOT USED. THE 24X40 CLASSROOM IS APPROVED FOR A MAXIMUM 12 LIGHTS AS SHOWN



REFLECTED CEILING PLAN OPTION A

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



OPTIONAL ENCLOSE OVERHANG SOFFIT FRAMING

LEGEND

- SUPPLY AIR DIFFUSERS NOT SHOWN FOR CLARITY (SEE MECHANICAL PLAN)
- 2'x4' FLUORESCENT DROP-IN FIXTURE (SEE ELECTRICAL PLAN)
- 4-WAY SPLAY WIRE SYSTEM
- 48" / 24" — T-GRID CEILING
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED (SEE SHEET 3/A2.0 OR 20/A2.0)
- INDICATES MAIN RUNNER LOCATIONS VERIFY WITH MECHANICAL DRAWING
- LOCATION OF SOFFIT VENT FOR WOOD SIDING APPLICATION SHOWN WHEN ENCLOSED SOFFIT OPTION USED. STUCCO APPLICATION NOT SHOWN FOR CLARITY. SEE #9/A8.0 OR #9/A8.3

PROJECT SPECIFIC (CHECK ONE):

☐ STANDARD DESIGN AS SHOWN

☐ SOLATUBE OPTION. REFERENCE SHEET A11.0

FOR NOTES SEE SHEET A2.0

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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GLOBAL MODULAR incorporated

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PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN 24'X40'

REFER TO A2.1-PS, A2.2-PS, A2.3-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN J. OMER · No. S 4437 · Exp 12/31/25 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

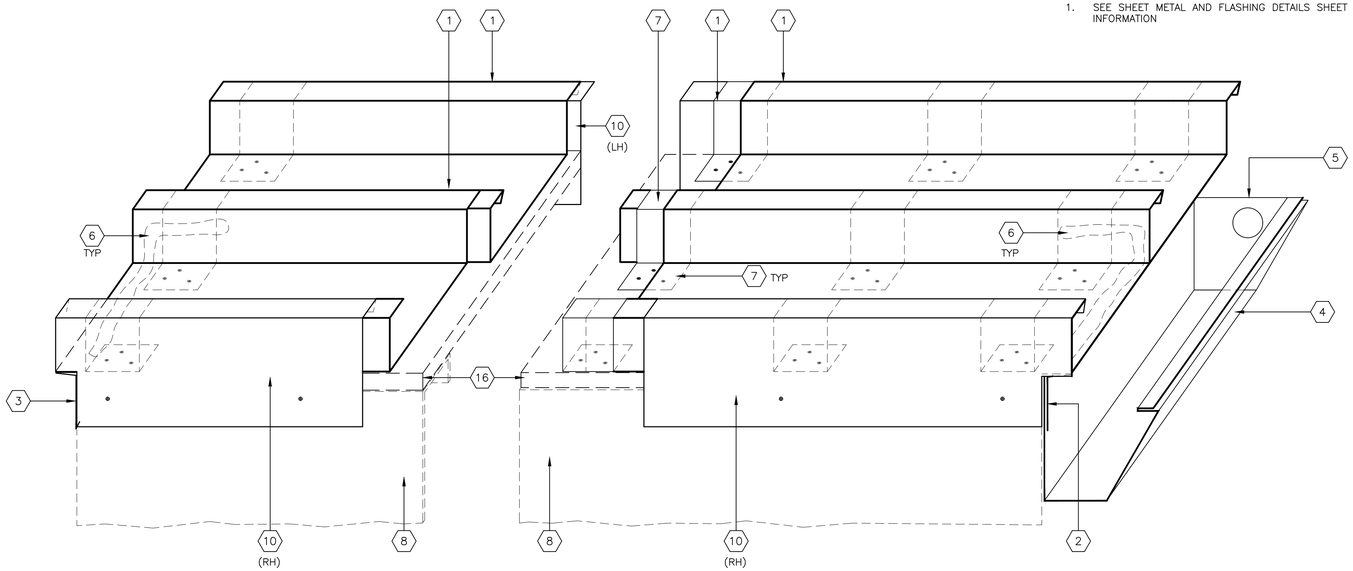
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A2.1

GENERAL NOTES

1. SEE SHEET METAL AND FLASHING DETAILS SHEET A8.2 FOR MORE INFORMATION

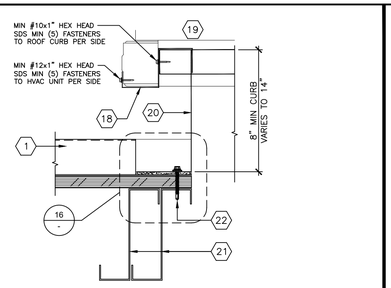


22 GAUGE ROOF ISOMETRIC

1

KEY NOTES

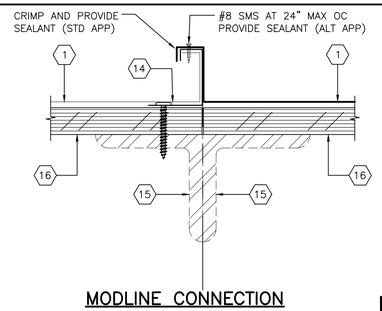
1. 22 GA STANDING SEAM GALVANIZED METAL ROOF
2. 22 GA END FLASHING ATTACH WITH #8 STSMS @ 24" OC
3. 22 GA STARTER FLASHING ATTACH WITH #8 STSMS @ 6" OC
4. 26 GA GUTTER
5. GUTTER END CAP ATTACH WITH (2) #8 STSMS EACH SIDE
6. SEALANT APPLIED TO FLASHING EDGE AND STANDING SEAM–#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT–S–00230C, TYPE II, CLASS A
7. 18 GA HOLD DOWN CLIP SECURED THROUGH PLYWOOD ROOF AND JOIST WITH (3) #12 STS SCREWS PER CLIP. CLIP SPACING SHALL BE 48" OC MAX AND 24" OC MAX AT OVERHANGS. SCREWS TO PENETRATE THROUGH JOIST W/ 3 EXPOSED THREADS.
8. ROOF BEAM/HEADER (SEE STRUCTURAL ROOF FRAMING PLANS)
9. USE #8 STS AT 24" OC MAX FOR MATERIAL THICKNESS UP TO 10 GA COVER SCREW W/#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT–S–00230C, TYPE II, CLASS A
10. 22 GA SIDE WALL FLASHING ATTACH WITH #8 STSMS @ 24" OC
11. 22 GA. METAL ROOF CAP BETWEEN ADJACENT BUILDINGS
12. ROOF OVERHANG MEMEBER (SEE STRUCTURAL ROOF FRAMING PLANS)
13. 1X STUCCO STOP ATTACHED WITH #8 STSMS AT 36" OC
14. USE #14 STS AT 24" OC MAX ALONG MODLINE TRUSS COVER SCREW W/#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT–S–00230C, TYPE II, CLASS A.
15. ROOF TRUSS MEMBER (SEE ROOF TRUSS DETAIL SHEET)
16. PLYWOOD FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLANS)
17. ROOF PURLIN MEMBER (SEE STRUCTURAL ROOF FRAMING PLANS)
18. 18 GA MIN X 3" MIN WIDE ANGLE (VERIFY WIDTH DIMENSION WITH HVAC UNIT). SEE DETAIL #C/M0.0 FOR LOCATION
19. ROOF MOUNT HVAC UNIT
20. PREFABRICATED METAL CURB
21. DOUBLE ROOF JOIST
22. (6) HWH 12–14x2" TEKS/3 BONDED WASHER AT EACH SIDE OF CURB THROUGH ROOF DECK



HVAC CURB DETAIL

SCALE: 3" = 1'-0"

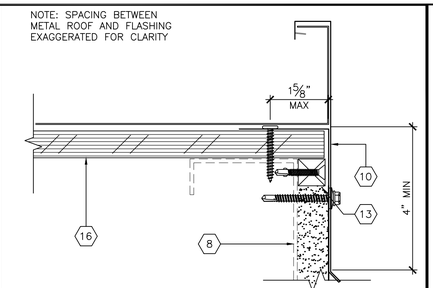
14



MODLINE CONNECTION

SCALE: 6" = 1'-0"

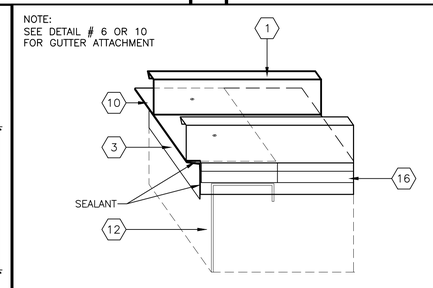
11



SIDEWALL FLASHING (RH)–STUCCO

SCALE: 6" = 1'-0"

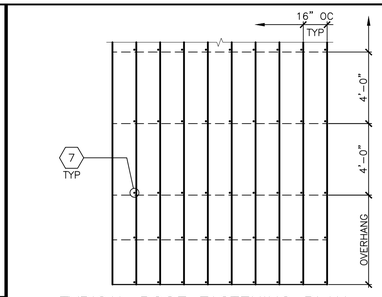
8



FLASHING AT OVERHANG

SCALE: NTS

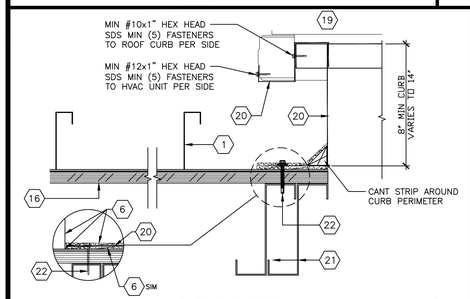
5



TYPICAL ROOF FASTENING PLAN

SCALE: NTS

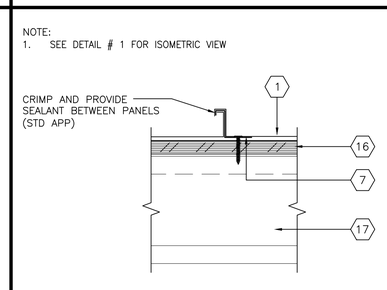
2



HVAC CURB DETAIL

SCALE: 3" = 1'-0"

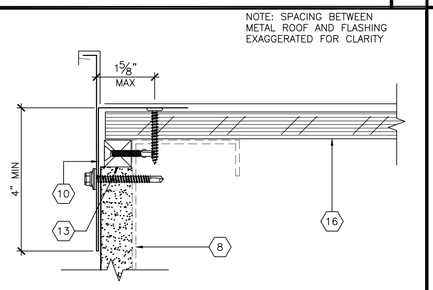
15



SEAM TO SEAM CONNECTION

SCALE: 3" = 1'-0"

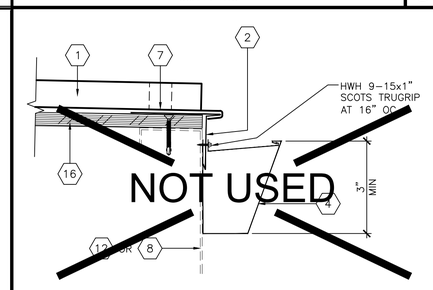
12



SIDEWALL FLASHING (LH)–STUCCO

SCALE: 6" = 1'-0"

9



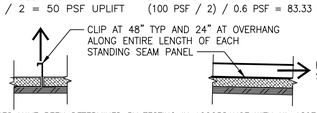
GUTTER DETAIL

SCALE: 3" = 1'-0"

6

ASD ALLOWABLE UPLIFT:
100 PSF / 2 = 50 PSF UPLIFT

LRFD UPLIFT CAPACITY:
(100 PSF / 2) / 0.6 PSF = 83.33 PSF UPLIFT

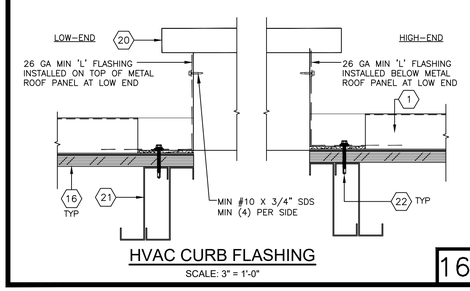


NOTES:

1. VALUES HAVE BEEN DETERMINED BY TESTING IN ACCORDANCE WITH UL 1897, STANDARD FOR SAFETY UPLIFT TESTS FOR ROOF COVERING SYSTEMS.
   INTERTEK TOTAL QUALITY. ASSURED. DATE: 05/31/22
   TEST REPORT NUM. N6634.02–301–44 RO
2. ALLOWABLE UPLIFT CAPACITY INCLUDES A SAFETY FACTOR = 2
3. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF SOLAR PANELS ARE TO BE ADDED TO A ROOF, THE ROOF CLIP SLIDING CAPACITY MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES EQUAL TO OR GREATER THAN 7 DEGREES, EXCEPT IF THE SLIDING LOAD FROM SEISMIC AND WIND ON THE SOLAR PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER IR 16–8 SECTION 5.1.1.2.
4. P.V. PANEL ATTACHMENT IS NOT PART OF THIS PC APPROVAL.
5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) BASED ON ASD WIND PRESSURE = 0.6 (LRFD WIND PRESURE).

ROOF CLIP CAPACITIES

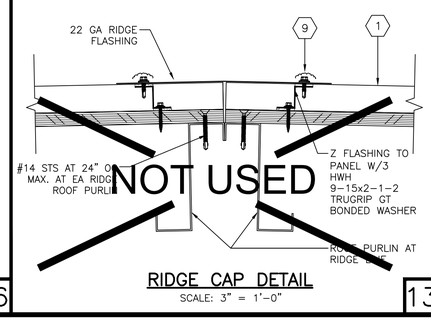
3



HVAC CURB FLASHING

SCALE: 3" = 1'-0"

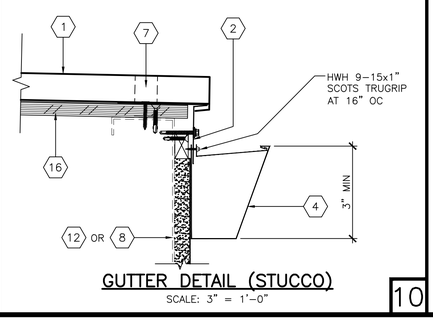
16



RIDGE CAP DETAIL

SCALE: 3" = 1'-0"

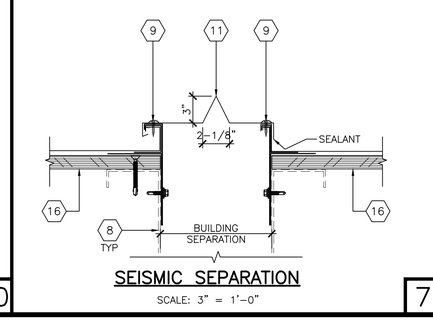
13



GUTTER DETAIL (STUCCO)

SCALE: 3" = 1'-0"

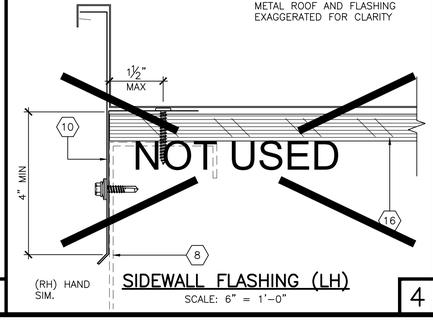
10



SEISMIC SEPARATION

SCALE: 3" = 1'-0"

7



(RH) HAND SIM.

SIDEWALL FLASHING (LH)

SCALE: 6" = 1'-0"

4

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676–8029
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1860 CHICAGO AVE., SUITE I–7
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PROJECT NAME:

SHEET TITLE:

ROOF DETAILS–22 GA METAL

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. OMER
No. S 4437
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

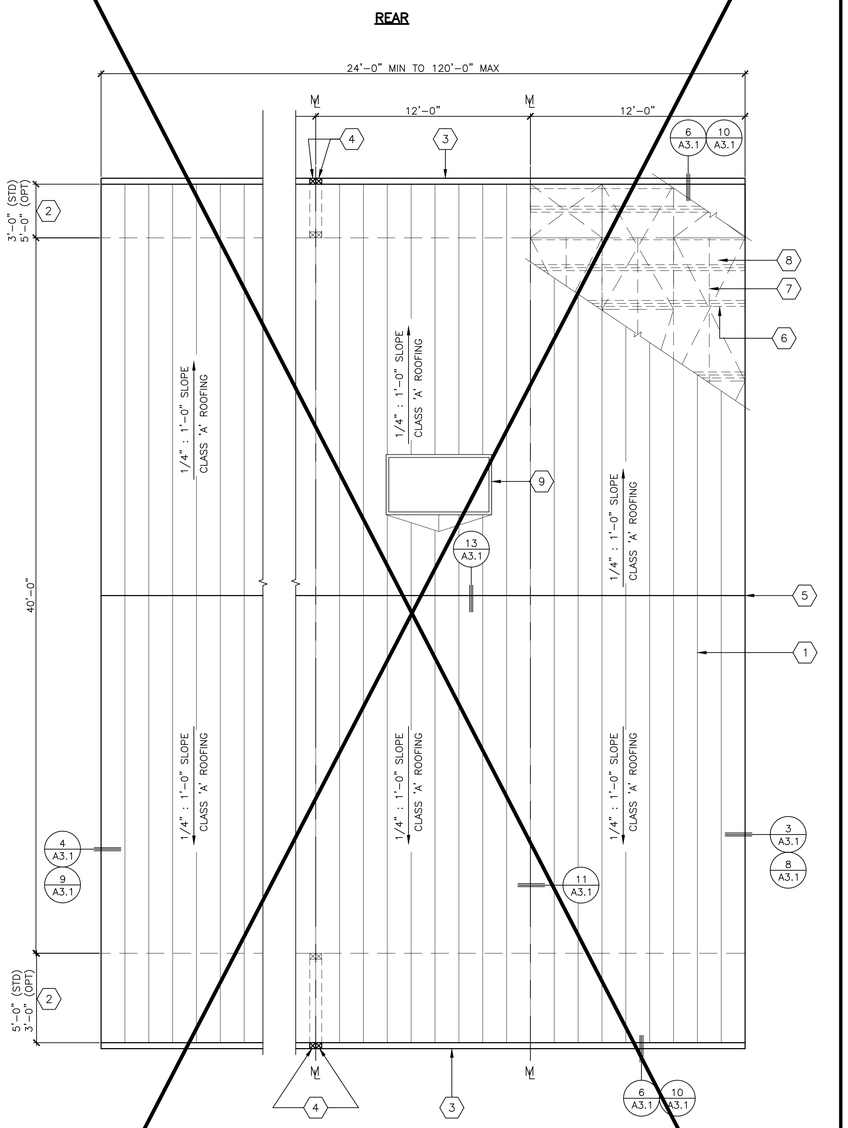
REVISIONS

1 .
2 .
3 .
4 .

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

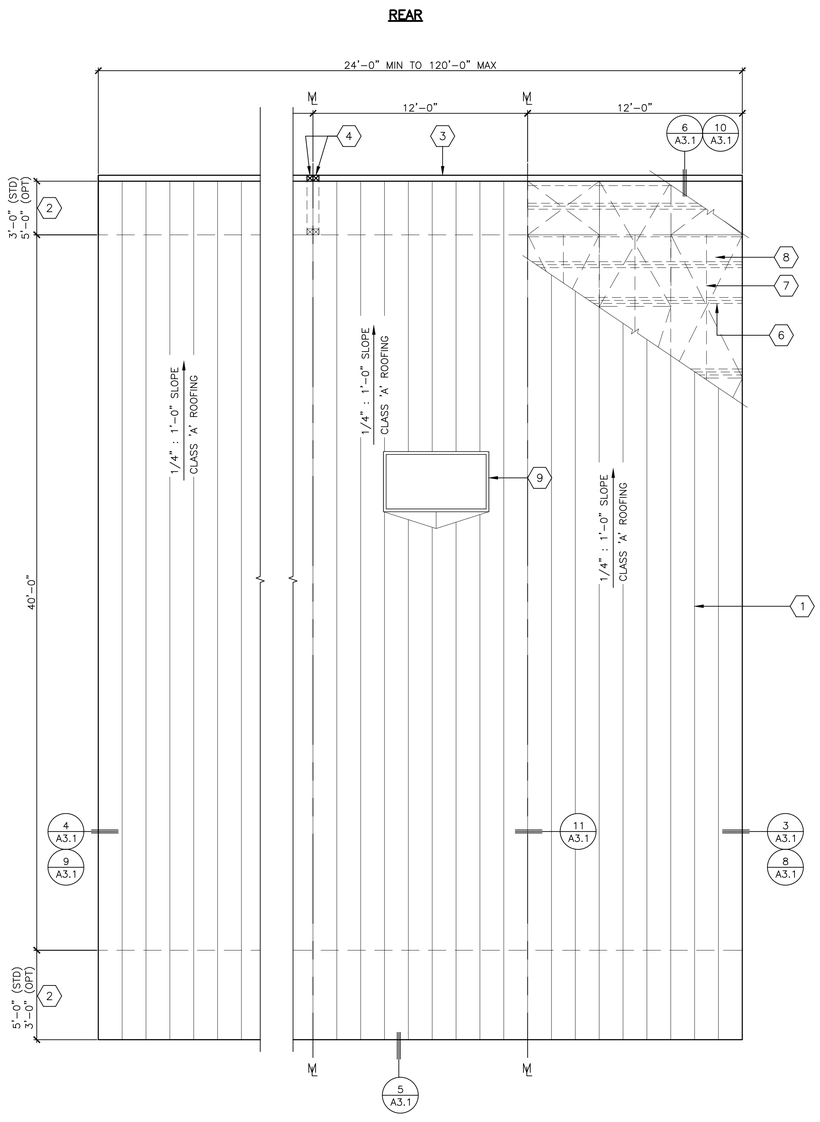
A3.1



ROOF PLAN – DUAL SLOPE

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

(22 GA STANDING SEAM)



ROOF PLAN – MONO SLOPE

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

(22 GA STANDING SEAM)

KEY NOTES

1. STEEL ROOF DECK: 22 GA ROLL FORMED STANDING SEAM SEE DETAIL #1 & 2 SHEET A3.1 FOR INSTALLATION
2. OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLAN FOR PRECISE LENGTH). PRIMARY BLDG ENTRANCES SHALL REQUIRE 48" MIN DOOR PROTECTION. SEE FLOOR PLAN
3. GUTTER (SEE ROOF DETAILS SHEET FOR MORE INFORMATION)
4. DOWNSPOUT SEE DETAIL #17/A8.0 FOR MORE INFORMATION SEE EXTERIOR ELEVATIONS SHEET FOR EXACT LOCATION FOR BUILDINGS GREATER THAN 60'-0", SEE SHEET A0.5
5. RIDGE LINE
6. JOIST (SEE STRUCTURAL ROOF FRAMING PLANS)
7. 16 GA WIRE ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" OC MAX (SEE 19,20/A8.0 OR 19,20/A8.3)
8. PLYWOOD FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLAN)
9. ROOF MOUNT HVAC

GENERAL NOTES

1. BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC 1505.2, CLASS 'A'
2. SEE MECHANICAL PLAN FOR ROOF TOP AC UNIT LOCATIONS. REFER TO #15/A8.0 FOR MOUNTING DETAIL
3. SEE SHEET METAL AND FLASHING DETAILS SHEET A8.2 FOR MORE INFORMATION
4. PROVIDE DRAFTSTOPS AT ATTIC SPACES EXCEEDING 3,000 SF PER CBC SECTION 718.4 (APPLIES TO BUILDINGS EQUIPPED WITH AN OPEN–WEB TRUSS SYSTEM ONLY). SEE #16/A8.1

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DATE: 03/07/2025

GLOBAL MODULAR incorporated

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CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

ROOF PLAN MONO ~~& DUAL~~ SLOPE–22 GA METAL

REFER TO A3.2-PS, A3.3-PS, A3.4-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

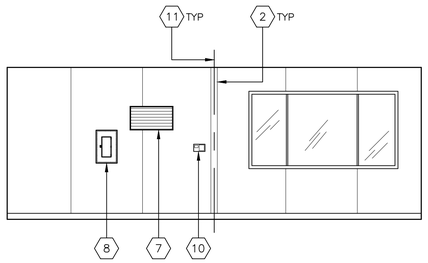
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

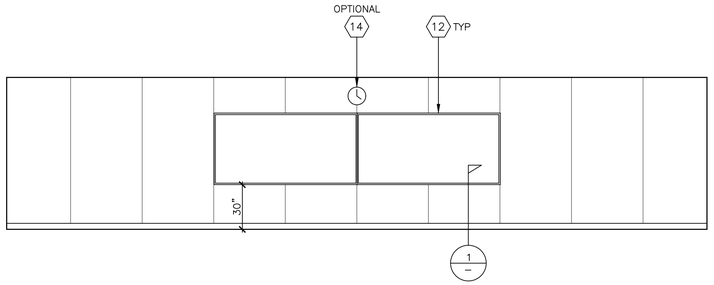
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A3.2



ELEVATION 1



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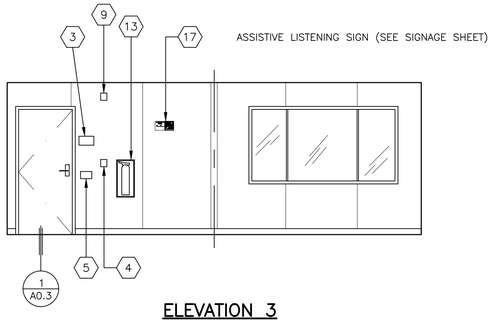

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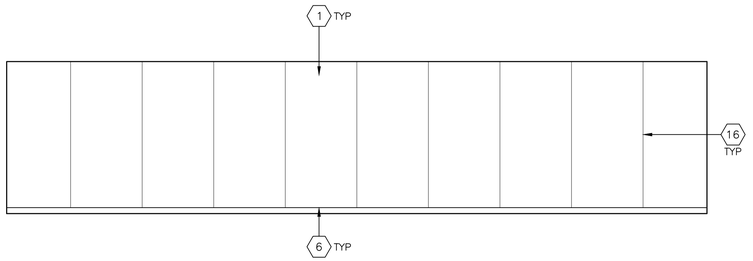
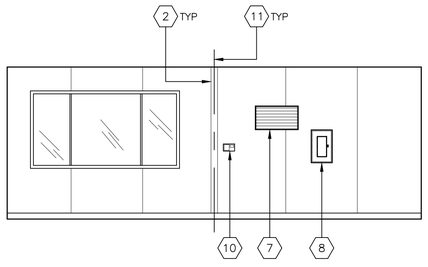


ELEVATION 4

INTERIOR ELEVATIONS
OPTION A (RIGHT HAND)
SCALE: 1/4" = 1'-0"

A



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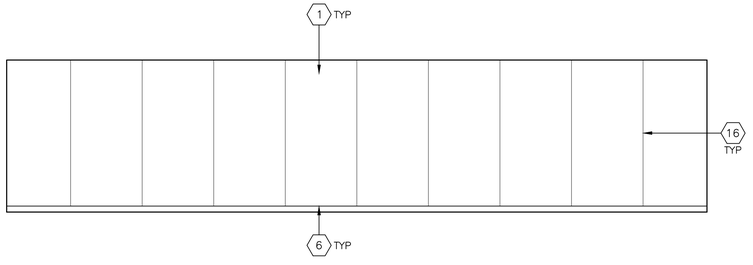

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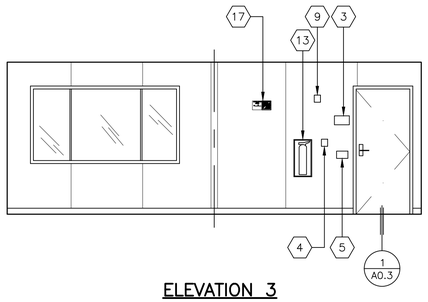

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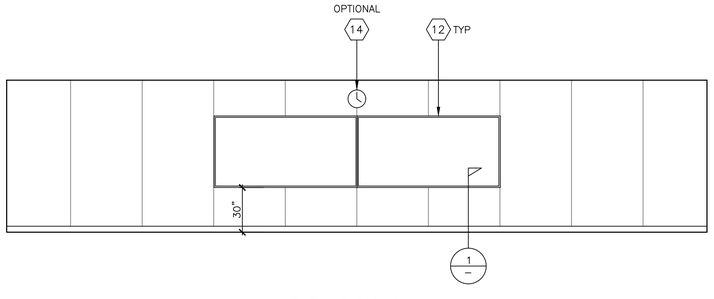


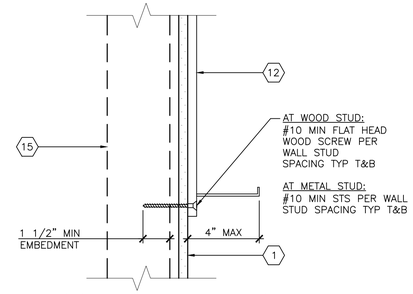
ELEVATION 4

INTERIOR ELEVATIONS
OPTION B (LEFT HAND)
SCALE: 1/4" = 1'-0"

B

KEY NOTES

1. TYPICAL INTERIOR FINISH
2. CLOSURE AT MODULAR JOINT
3. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE TYPICAL (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
9. HORN/STROBE (SEE ELECTRICAL PLAN)
10. THERMOSTAT (SEE MECHANICAL PLAN)
11. MODULAR JOINT
12. 8'-0" x 4'-0" MARKER BOARD, EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET 48" MAX A.F.F. TO F.E. HANDLE.
14. 12" DIA ELECTRIC CLOCK (OPTIONAL) (SEE ELECTRICAL PLAN)
15. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
16. INTERIOR FINISH SEAM
17. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)



SECTION AT MARKER BOARD
SCALE: 3" = 1'-0"

1

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

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CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
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PHONE: (209) 676-8029
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PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS
24'X40'

REFER TO A4.1-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN I. OMEE · No. S 4437 · 12-31-24 · STRUCTURAL · STATE OF CALIFORNIA

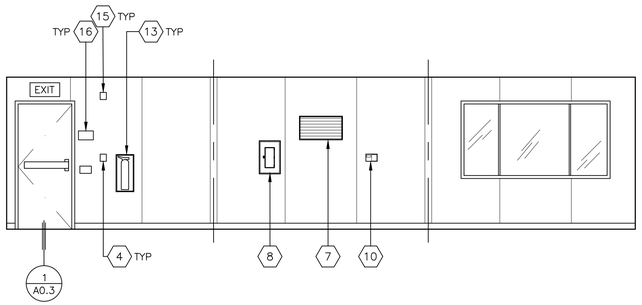
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

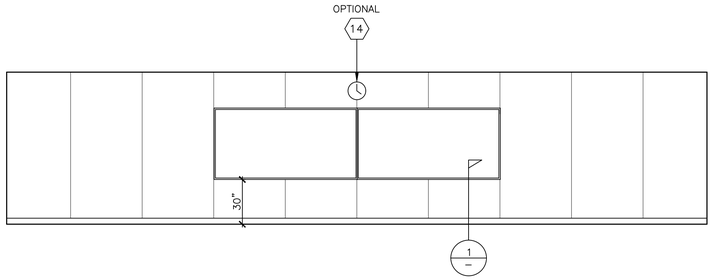
REVISIONS	
1	-
2	-
3	-
4	-
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A4.1



ELEVATION 1



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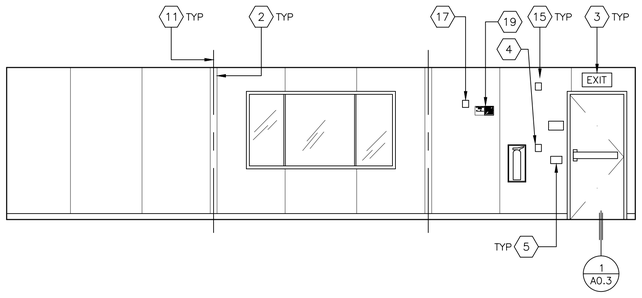
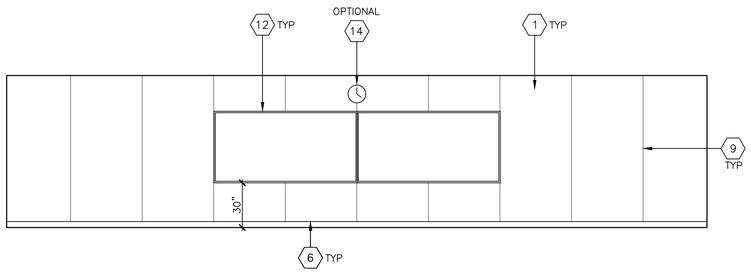


ELEVATION 3



ELEVATION 4

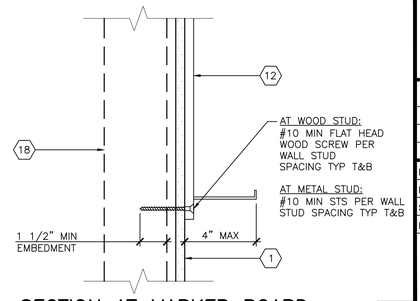
KEY NOTES

1. TYPICAL INTERIOR FINISH
2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
9. INTERIOR FINISH SEAM
10. THERMOSTAT (SEE MECHANICAL PLAN)
11. MODULAR JOINT
12. 8'-0" x 4'-0" MARKER BOARD EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET48" MAX A.F.F. TO F.E. HANDLE.
14. 12" DIA ELECTRIC CLOCK (OPTIONAL) (SEE ELECTRICAL PLAN)
15. HORN/STROBE (SEE ELECTRICAL PLAN)
16. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
17. OCCUPANT LOAD SIGN (SEE SIGNAGE SHEET)
18. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
19. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)

INTERIOR ELEVATIONS
(OPTION "B" LEFT HAND – AS SHOWN)
SCALE: 1/4" = 1'-0"

(OPTION "A" RIGHT HAND)

A



SECTION AT MARKER BOARD
SCALE: 3" = 1'-0"

1

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS
36'X40'

REFER TO A4.2-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · REZAA I. OMER · No. S 4437 · 12/31/24 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

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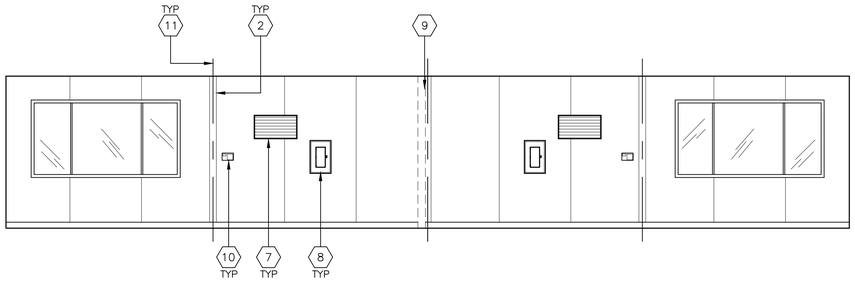
2	-
3	-
4	-

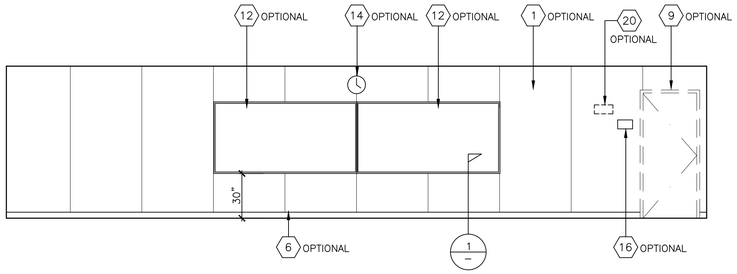
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

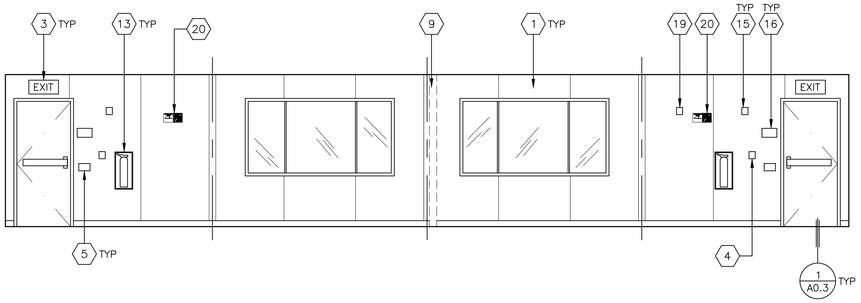
A4.2



ELEVATION 1



ELEVATION 2 (OPTIONAL INTERIOR WALL)



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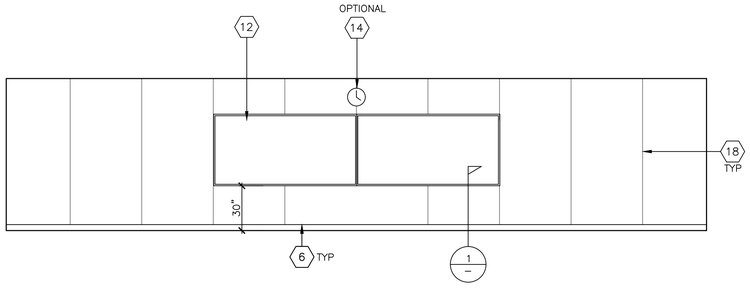


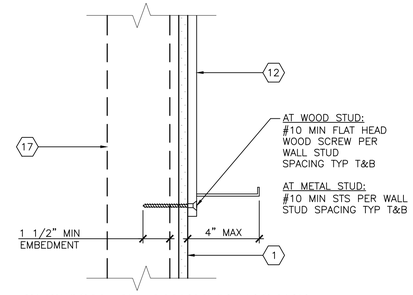
ELEVATION 4

KEY NOTES

1. TYPICAL INTERIOR FINISH
2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE (SEE FINISH SCHEDULE)
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
9. OPTIONAL INTERIOR WALL/DOOR
10. THERMOSTAT SEE MECHANICAL PLAN
11. MODULAR JOINT
12. 8'-0" x 4'-0" MARKER BOARD EASIER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET 48" MAX A.F.F. TO F.E. HANDLE
14. 12" DIA ELECTRIC CLOCK (OPTIONAL) (SEE ELECTRICAL PLAN)
15. HORN/STROBE (SEE ELECTRICAL PLAN)
16. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
17. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)
18. INTERIOR FINISH SEAM
19. OCCUPANT LOAD SIGN (SEE SIGNAGE SHEET)
20. ASSISTIVE LISTENING SIGN (SEE SIGNAGE SHEET)

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

A



SECTION AT MARKER BOARD
SCALE: 3" = 1'-0"

1

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
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PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS
48'X40'

REFER TO A4.3-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · KEVAN I. OMRE · No. S 4497 · 12/31/24 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

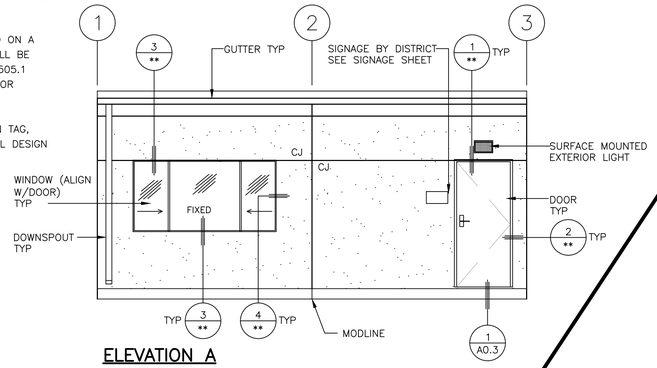
SHEET NUMBER

A4.3

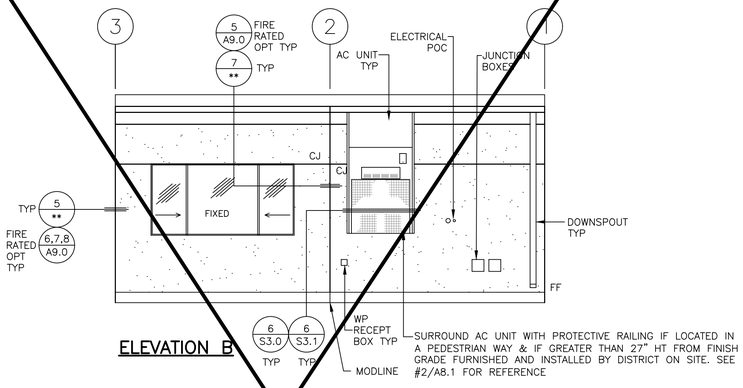
BUILDING IDENTIFICATION SIGN

1. PER CFC SECTION 505.1, A BUILDING IDENTIFICATION SIGN SHALL BE PLACED ON A NEW OR EXISTING BUILDING. SIGN SHALL BE PLACED AND DESIGNED PER SECTION 505.1 SIGN SHALL BE PROVIDED BY OWNER OR DISTRICT.

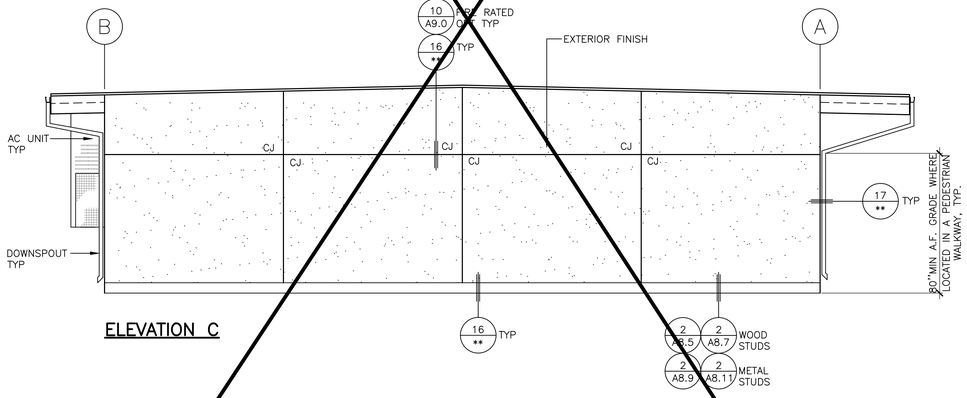
2. FOR MODULAR BUILDING IDENTIFICATION TAG, REFER TO SHEET A0.1 UNDER GENERAL DESIGN REQUIREMENTS & #2/A0.4



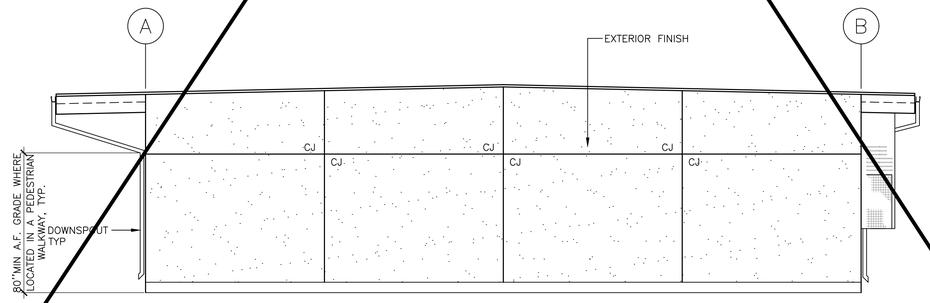
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

** = OPTIONS: (CHECK ONE)

☐ WOOD STUDS A8.0 ☐ METAL STUDS A8.3

EXTERIOR ELEVATIONS (DUAL SLOPE)

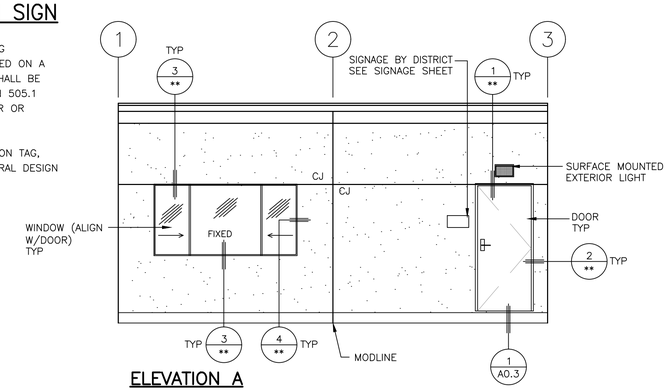
SCALE: 1/4" = 1'-0"

- RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)
- SEE SHEET ** FOR ARCHITECTURAL DETAILS

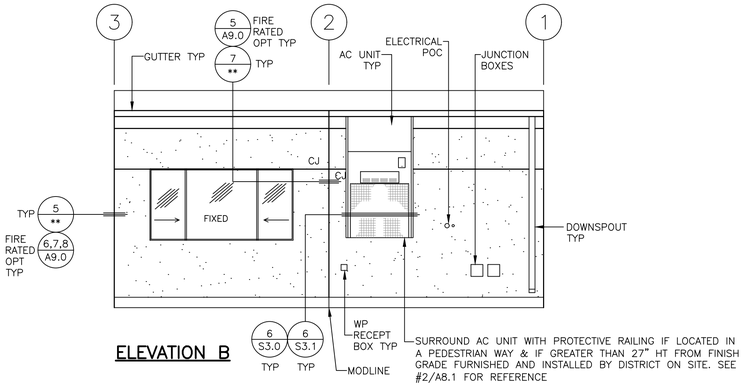
BUILDING IDENTIFICATION SIGN

1. PER CFC SECTION 505.1, A BUILDING IDENTIFICATION SIGN SHALL BE PLACED ON A NEW OR EXISTING BUILDING. SIGN SHALL BE PLACED AND DESIGNED PER SECTION 505.1 SIGN SHALL BE PROVIDED BY OWNER OR DISTRICT.

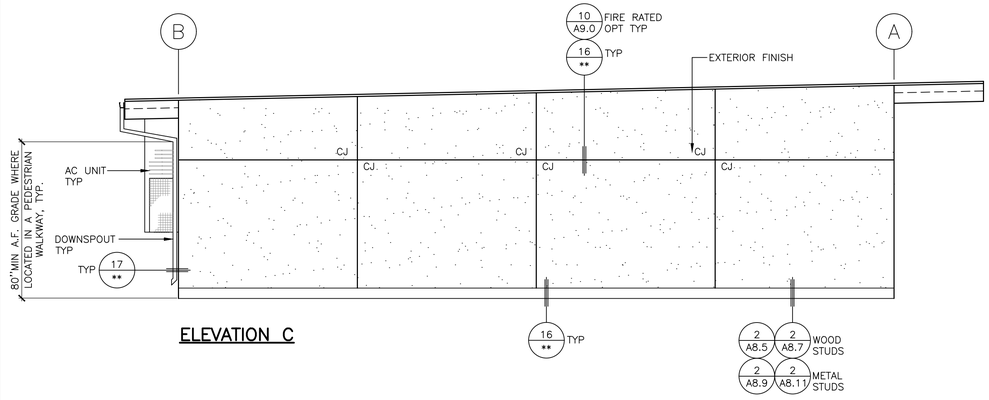
2. FOR MODULAR BUILDING IDENTIFICATION TAG, REFER TO SHEET A0.1 UNDER GENERAL DESIGN REQUIREMENTS & #2/A0.4



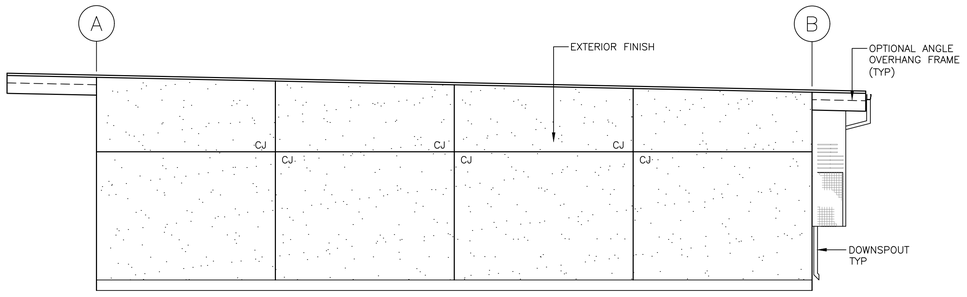
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

** = OPTIONS: (CHECK ONE)

☑ WOOD STUDS A8.0 ☐ METAL STUDS A8.3

EXTERIOR ELEVATIONS (MONO SLOPE)

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

- RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)
- SEE SHEET ** FOR ARCHITECTURAL DETAILS

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATIONS
24'X40'-STUCCO OPTION 'A'
(RIGHT HAND)

REFER TO A5.4-PS & A5.5-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
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REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4437 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

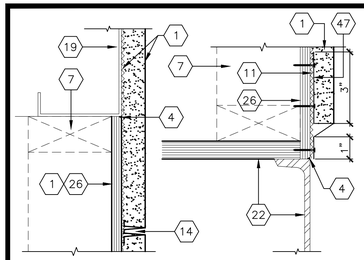
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

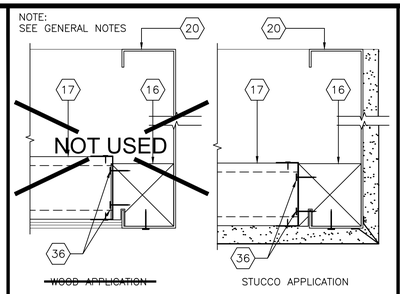
SHEET NUMBER

A5.4-A



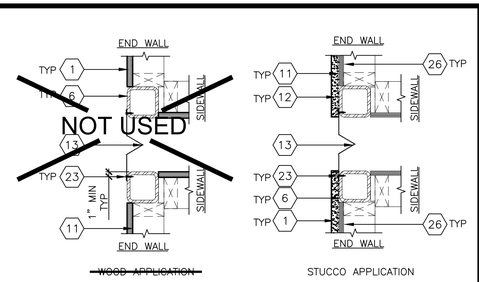
CHANNEL TO WOOD SEAMS (STUCCO) 16

SCALE: NTS



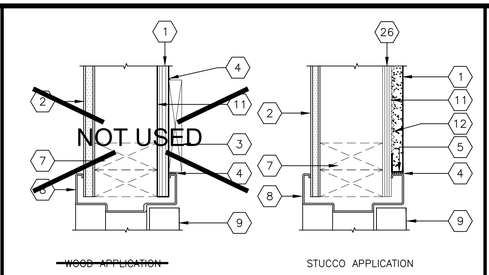
OVERHANG SOFFIT (CHANNEL) 11

SCALE: 3" = 1'-0"



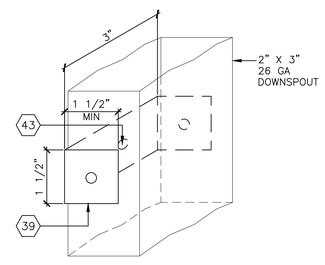
SEPARATION AT EXTERIOR WALLS 6

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



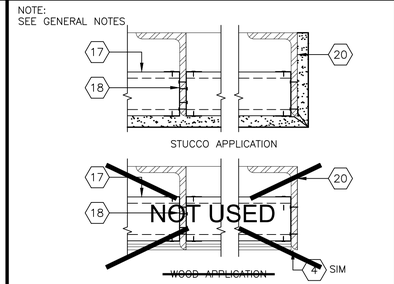
DOOR HEADER/HOLLOW METAL WINDOW HEADER 1

SCALE: NTS



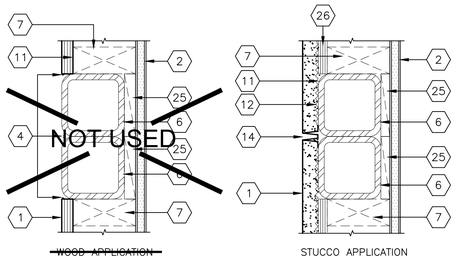
DOWNSPOUT 17

SCALE: NTS



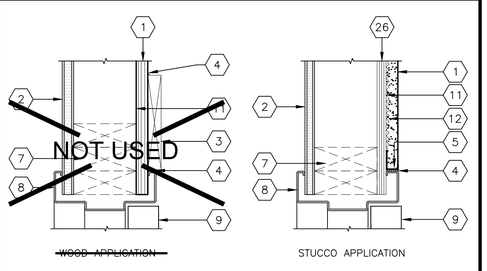
OVERHANG SOFFIT (ANGLE) 12

SCALE: NTS



COLUMN AT MODULE LINE 7

SCALE: NTS

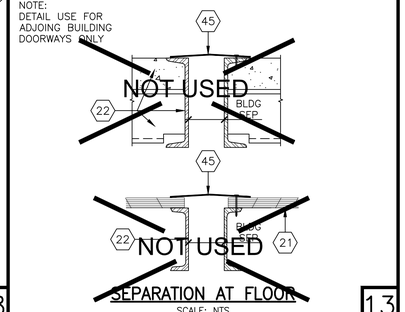


DOOR JAMB/HOLLOW METAL WINDOW JAMB 2

SCALE: NTS

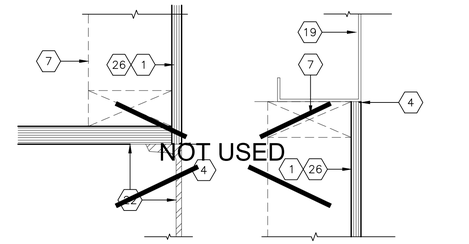
NOT USED

18



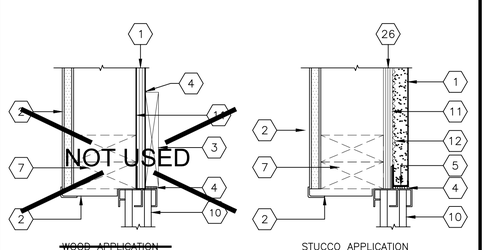
SEPARATION AT FLOOR 13

SCALE: NTS



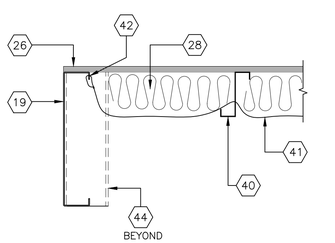
CHANNEL TO WOOD SEAMS (WOOD SIDING) 8

SCALE: NTS



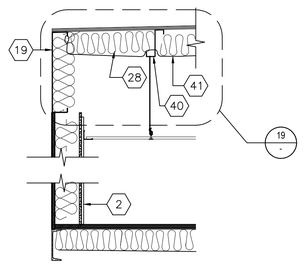
ALUMINUM WINDOW HEADER/SILL 3

SCALE: NTS



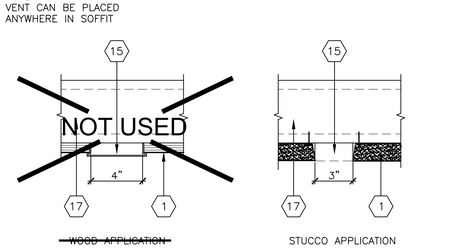
HOLE AT ROOF
FOR INSULATION STRAP 19

SCALE: NTS



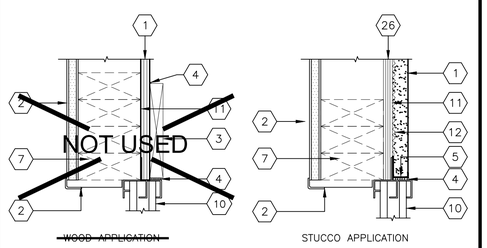
INSULATION ENVELOPE 14

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



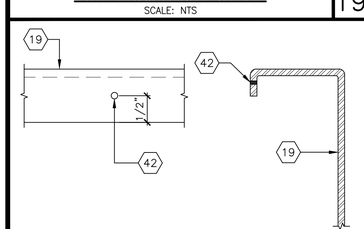
VENT AT OVERHANG SOFFIT 9

SCALE: 3" = 1'-0"



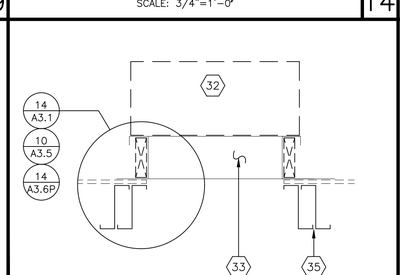
ALUMINUM WINDOW JAMB 4

SCALE: NTS



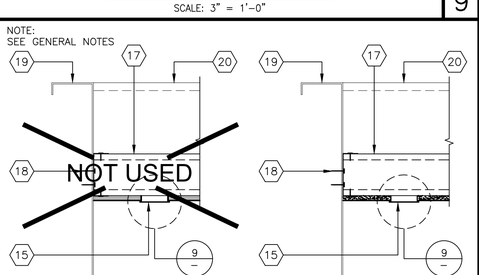
HOLE IN HEADER 20

SCALE: NTS



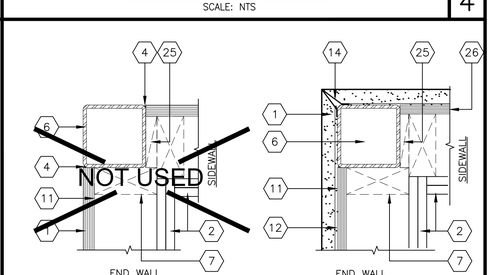
AC MOUNTING DETAIL 15

SCALE: NTS



OVERHANG SOFFIT 10

SCALE: NTS



COLUMN AT CORNER 5

SCALE: 3" = 1'-0"

KEY NOTES

1. EXTERIOR FINISH (SEE CONSTRUCTION MATERIALS SCHEDULE)
2. INTERIOR FINISH (SEE FINISH SCHEDULE)
3. OPTIONAL TRIM – 5/4 ENGINEERED WOOD TRIM NAILED TO WALL @ 24" OC MAX (SEE NAILING SCHEDULE ON WALL FRAMING ELEVATION SHEET)
4. PAINTABLE SEALANT USE ALSO AT LOCATIONS THAT NEED A WATER TIGHT SEAL WHERE EXTERIOR BUILDING MATERIALS MEET
5. J-MOLD
6. COLUMN
7. WALL FRAMING – WOOD STUDS (SEE FRAMING SHEET)
8. DOOR/WINDOW FRAME
9. DOOR (SEE DOOR SCHEDULE)
10. WINDOW (SEE WINDOW SCHEDULE)
11. BUILDING PAPER
12. SELF FURRING METAL LATH
13. 26 GA GALVANIZED SEISMIC FLASHING
14. CONTROL JOINT
15. 4"x10" VENT AT WOOD APPLICATION LOCATED 10" FROM OVERHANG PERIMETER AT EACH 12'-0" WIDE MODULE OVERHANG (SEE RCP)

    3" CONTINUOUS AT STUCCO APPLICATION STARTING AT 10" FROM OVERHANG PERIMETER
16. 4x BLOCK ATTACHED TO OVERHANG MEMBER WITH MIN #10 X 1-1/2" WS AT 24" OC
17. C 3 ½" X 20 GA METAL STUDS @ 16" OC ATTACH STUD TO TRACK WITH #8 SMS AT EACH FLANGE
18. C 3 ½" X 20 GA METAL TRACK TO ROOF HEADER WITH (2) #8 SMS AT 12" OC
19. ROOF HEADER/BEAM
20. OVERHANG MEMBER (STRUCTURAL ROOF FRAMING PLAN)
21. PLYWOOD FLOOR (SEE STRUCTURAL FLOOR FRAMING PLAN)
22. FLOOR SYSTEM (SEE STRUCTURAL FLOOR FRAMING PLAN)
23. #8 SELF TAPPING SHEET METAL SCREW @ 24" OC
24. NOT USED
25. PLYWOOD SPACER
26. PLYWOOD SHEATHING (SEE WALL FRAMING ELEVATION SHEET)
27. ROOF FINISH (SEE SHEET A0.2)
28. 22 GA MIN 2" WIDE ANGLE
29. NOT USED
30. COMPOSITION FLASHING
31. NOT USED
32. AC UNIT
33. PREFABRICATED METAL CURB
34. PLYWOOD FILLER AROUND CURB
35. DOUBLE JOIST
36. ATTACH METAL TRACK TO BLOCK WITH (2) #10 WOOD SCREW @ 12" OC
37. 22 GA MIN FLASHING
38. (6) #10x2" RH TEK SCREWS EACH SIDE OF CURB TO ROOF DECK
39. 24 GA METAL STRAP, TOTAL OF (2) TOP AND BOTTOM AT 12" MIN FROM EACH END OF DOWNSPOUT WITH #8 SMS ON EACH SIDE
40. ROOF JOIST
41. STRAP FOR INSULATION
42. ⅛"ø HOLE @ 16" OC FOR INSULATION SUPPORT WIRE
43. ATTACH STRAP TO WALL WITH #10 WOOD SCREW FOR WOOD SIDING APPLICATION; USE #10 STS FOR STUCCO FINISH APPLICATION
44. ROOF STUB COLUMN
45. SEISMIC THRESHOLD. USE #10 STS SECURE TO ONE SIDE ONLY OR INSTALL PER SPECIFIC THRESHOLD MANUFACTURER REQUIREMENTS
46. HIDDEN LINE REPRESENT TO TRIM AND BEND STANDING SEAM FLAT AROUND A/C OPENING
47. STUCCO WEEP SCREED (BEHIND BLDG PAPER). INSTALL WITH #10 STS

GENERAL NOTES

1. EXTERIOR PLYWOOD ATTACHED TO STUDS WITH CORROSION RESISTANT SCREWS (SEE WALL FRAMING ELEVATION SHEET FOR ATTACHMENT INFORMATION)
2. (ALTERNATE EXT WALL FINISH) 7/8" STUCCO FINISH OVER SELF-FURRING LATH OVER FELT PAPER OVER CD-X PLYWOOD SHEATING SEE SHEET A0.2 FOR FELT PAPER, SELF-FURRING LATH AND CEMENT ATTACHMENT SEE WALL FRAMING ELEVATION SHEET FOR CD-X PLYWOOD ATTACHMENT NOTE: USE #10 X 3/4" WAFERHEAD STSMS AT 6" EN & 12" FN
3. (STANDARD EXT WALL FINISH) 5/8" PLYWOOD SIDING (DURATEMP) SEE SHEET A0.2 FOR INFORMATION SEE WALL FRAMING ELEVATION SHEET FOR PLYWOOD SIDING ATTACHMENT
4. (STANDARD SOFFIT FINISH) 5/8" PLYWOOD SIDING (DURATEMP) SEE SHEET A0.2 FOR INFORMATION. SEE WALL FRAMING ELEVATION SHEET FOR PLYWOOD SIDING ATTACHMENT (SIMILAR ATTACHMENT)
5. (ALTERNATE SOFFIT FINISH) 7/8" STUCCO FINISH OVER 3/8" RIB LATH OVER FELT PAPER OVER CD-X PLYWOOD SHEATING SEE SHEET A0.2 FOR FELT PAPER, RIB LATH AND CEMENT ATTACHMENT SEE WALL FRAMING ELEVATION SHEET FOR CD-X PLYWOOD ATTACHMENT NOTE: USE #8-18 X 3/8" STS (MIN 7/16" HEAD DIA) WITH 1"ø OD X 1/4" ID WASHERS AT 7" EN & 7" FN
6. SOFFIT NOTE: THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE TO BE VENTILATED

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

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PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN J. OMER · No. S 4437 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

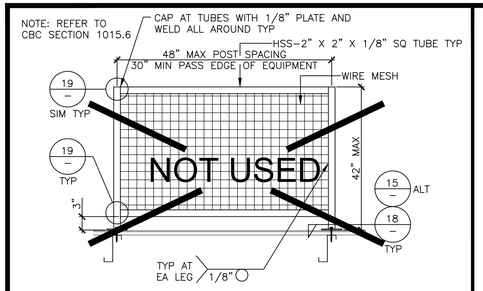
REVISIONS

1	-
2	-
3	-
4	-

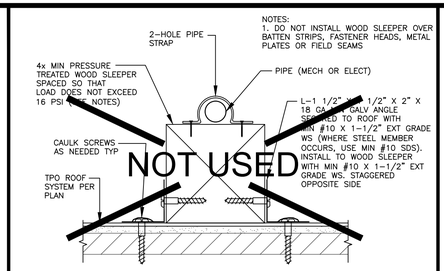
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A8.0



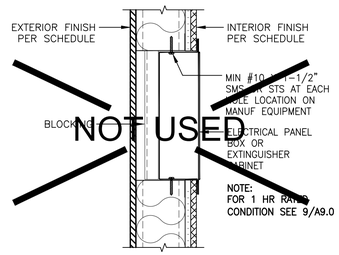
MECHANICAL EQUIPMENT SCREEN 17



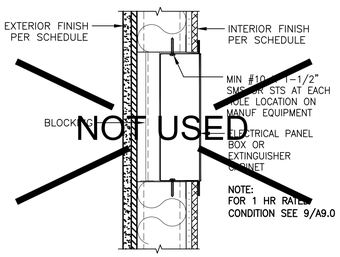
PIPE SUPPORT AT TPO ROOF 12

SCALE: 6" = 1'-0"

NOTE:
EQUIPMENT CAVITY DETAIL IS SIM AT INTERIOR CONDITION

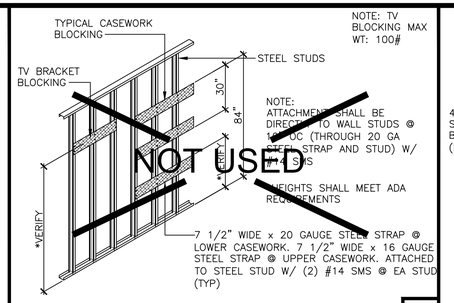


WOOD SIDING WITH METAL STUDS

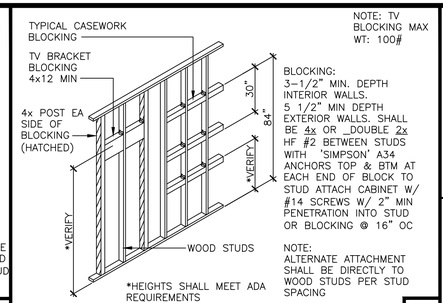


STUCCO SIDING WITH METAL STUDS

ELECT PANEL/FIRE EXTINGUISHER CABINET STEEL STUD FRAMING AT EXTERIOR WALL 10



CASEWORK AND TV BLOCKING–METAL 5



CASEWORK AND TV BLOCKING–WOOD 1

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
ATWATER, CA 95301
PHONE: (209) 676-8029
FAX: (209) 676-8067
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SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
RIVERSIDE, CA 92507
PHONE: (951) 686-3633
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WEBSITE: WWW.GDVI.NET

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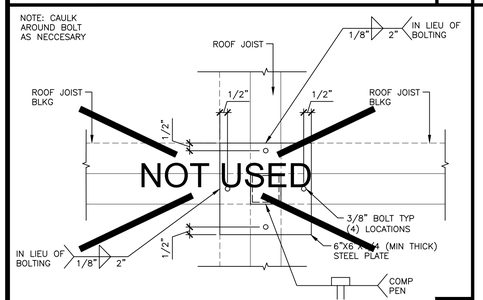
REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4437 STRUCTURAL STATE OF CALIFORNIA

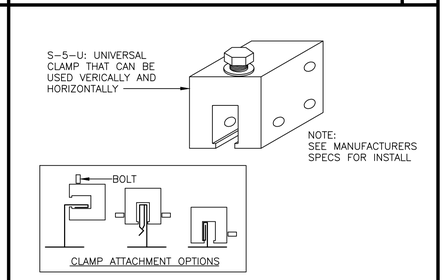
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

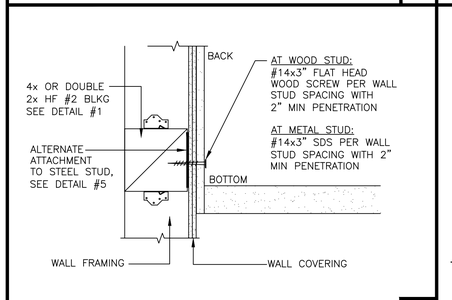


SECTION AT TUBE STEEL 18

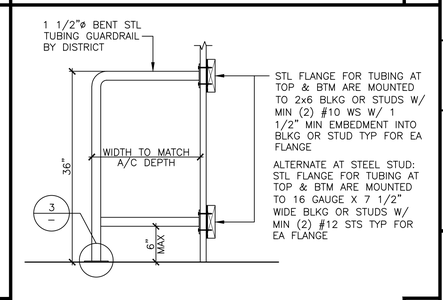
SCALE: 3"=1'-0"



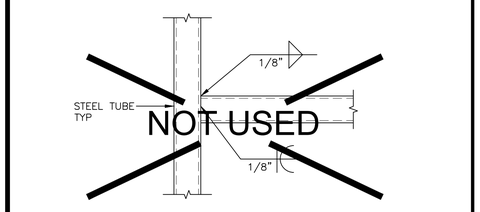
CONDENSATE/GAS PIPE SUPPORT AT METAL ROOF 13



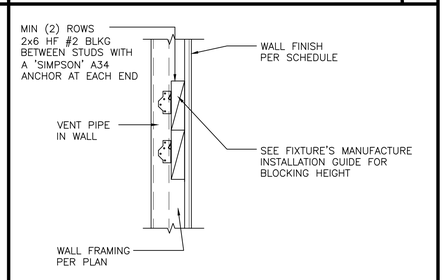
UPPPER CASEWORK TO WALL 6



BARRIER BLOCKING 2



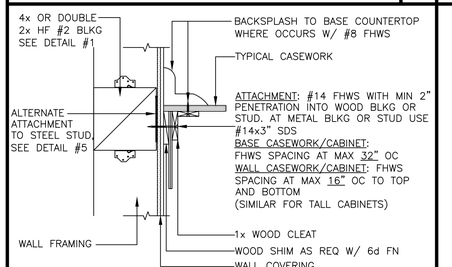
TUBE STEEL ATTACHMENT 19



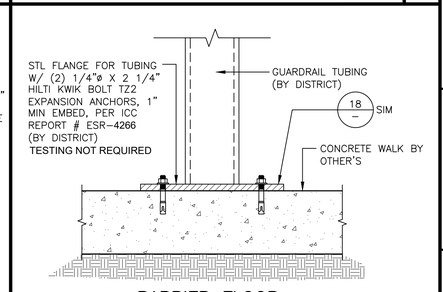
BLOCKING AT FIXTURE

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

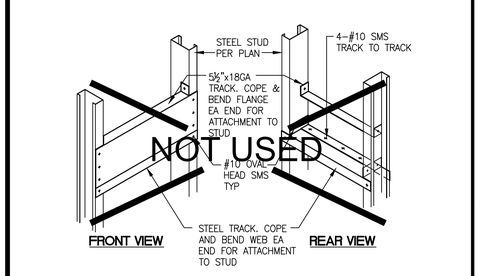
14



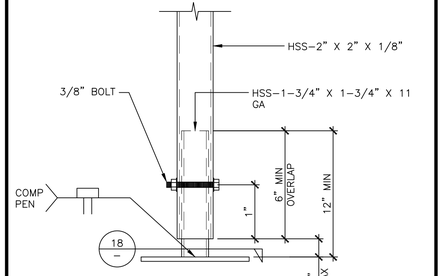
CASEWORK TO WALL AT COUNTERTOP 7



BARRIER FLOOR ATTACHMENT TO CONCRETE 3



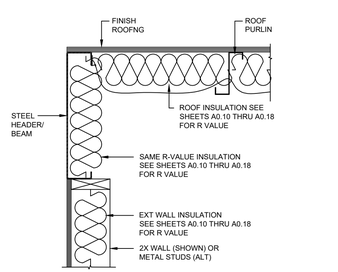
METAL STUD BLOCKING 20



POST TO PLATE

SCALE: 3"=1'-0"

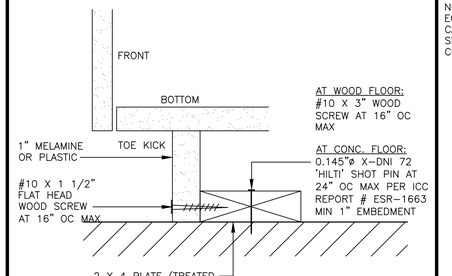
15



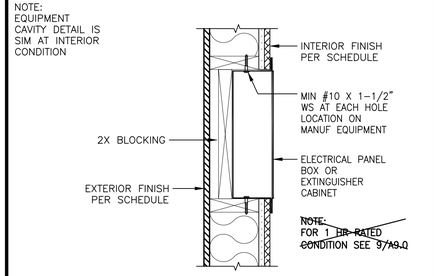
THERMAL ENVELOPE

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

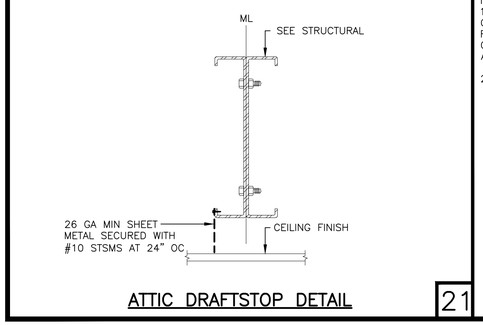
22



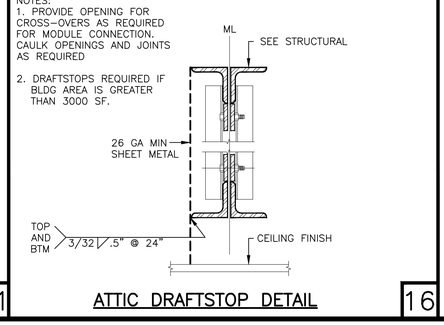
CASEWORK ATTACHMENT AT TOE KICK 8



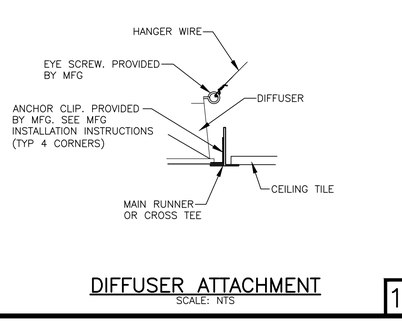
WOOD SIDING WITH WOOD STUDS



ATTIC DRAFTSTOP DETAIL 21



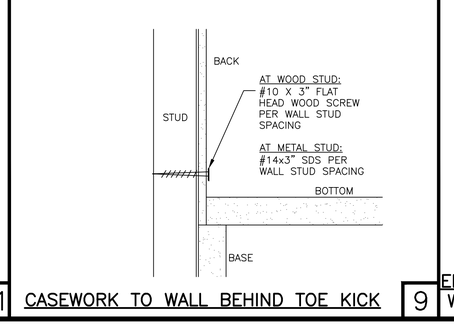
ATTIC DRAFTSTOP DETAIL 16



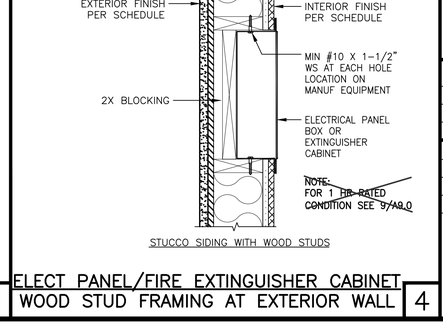
DIFFUSER ATTACHMENT

SCALE: NTS

11



CASEWORK TO WALL BEHIND TOE KICK 9



STUCCO SIDING WITH WOOD STUDS

ELECT PANEL/FIRE EXTINGUISHER CABINET WOOD STUD FRAMING AT EXTERIOR WALL 4

REVISIONS

1	-
2	-
3	-
4	-

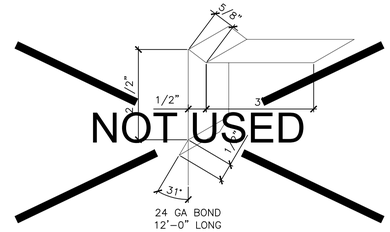
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A8.1

20

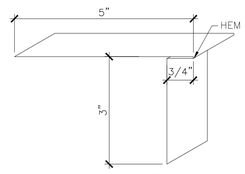
15



24 GA BOND
12'-0" LONG

TPO GRAVEL STOP
SCALE: 6" = 1'-0"

10



22 GA GALV
OVERHANG STARTER
12'-0" LONG

OVERHANG STARTER FLASHING
FOR STANDING SEAM ROOF
SCALE: 6" = 1'-0"

5

GENERAL NOTES

1. USE 1/8" BEND RADIUS AT EACH BEND
2. THE DIMENSIONS SHOWS ARE SUBJECT TO CHANGE DUE TO CONSTRUCTION TOLERANCES AND OR SITE SPECIFIC CONDITIONS. IN NO WAY SHAPE OR FORM, THE GAUGE THICKNESS CAN NOT BE THINNER THAN SHOWN ON THE PLAN UNO

ABBREVIATIONS

BOND:	BONDERIZED
GA:	GAUGE
GALV:	GALVANIZED
ID:	INSIDE DIMENSION
LH:	LEFT HAND
MAX:	MAXIMUM
MIN:	MINIMUM
NTS:	NOT TO SCALE
RH:	RIGHT HAND
TPO:	THERMOPLASTIC POLYOLEFINS

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Design · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
450 COMMERCE AVE
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PROJECT NAME:

SHEET TITLE:

SHEET METAL
AND
FLASHING DETAILS

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN J. OMER · No. S 4437 · EXP. 12/31/24 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

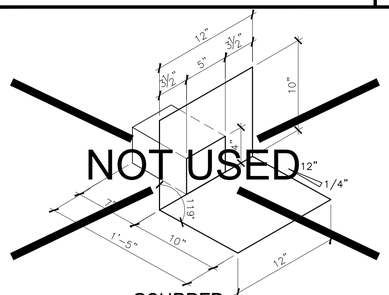
ARCHITECT OF RECORD

REVISIONS	
1	-
2	-
3	-
4	-
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

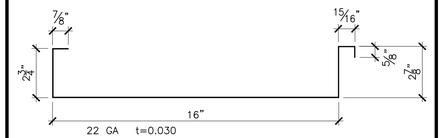
A8.2

21



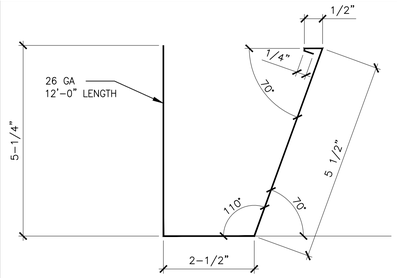
SCUPPER
SCALE: 1 1/2"=1'-0"

16



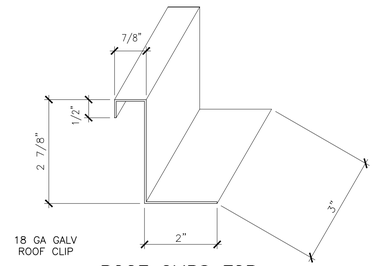
METAL ROOF PANELS
SCALE: 3"=1'-0"

11



GUTTER FOR STANDING SEAM
SCALE: 6" = 1'-0"

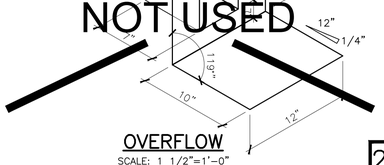
6



ROOF CLIPS FOR
22 GA STANDING SEAM
SCALE: 6" = 1'-0"

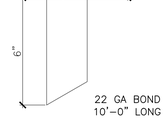
1

22



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

17



22 GA BOND
10'-0" LONG

'Z' FLASHING
SCALE: 3" = 1'-0"

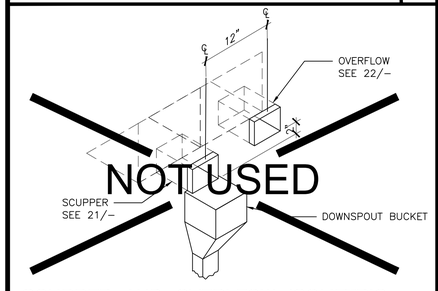
12

GUTTER STRAP FOR STANDING SEAM
SCALE: 6" = 1'-0"

7

2

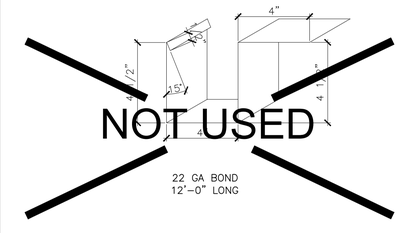
23



SCUPPER AND OVERLFOW ISOMETRIC
SCALE: 1"=1'-0"

18

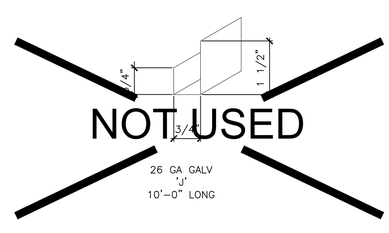
13



22 GA BOND
12'-0" LONG

GUTTER FOR SINGLE PLY
SCALE: 3" = 1'-0"

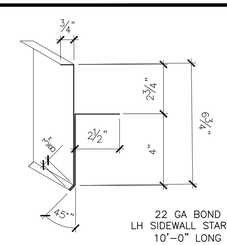
8



26 GA GALV
'J'
10'-0" LONG

'J' METAL FOR RAMP
SCALE: 6" = 1'-0"

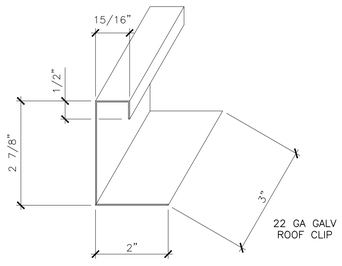
3



SIDE WALL STARTER FLASHING FOR (LH)
22 GA STANDING SEAM ROOF
SCALE: 3" = 1'-0"

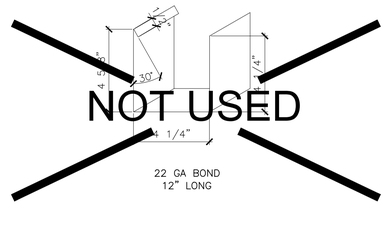
15

19



SIDEWALL C - CLIPS FOR 22 GA STANDING SEAM
SCALE: 6" = 1'-0"

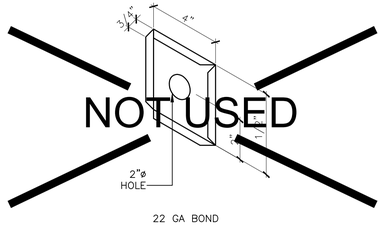
14



22 GA BOND
12" LONG

GUTTER SPLICE FOR SINGLE PLY
SCALE: 3" = 1'-0"

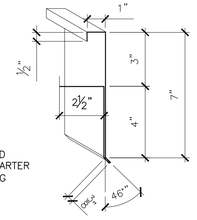
9



22 GA BOND

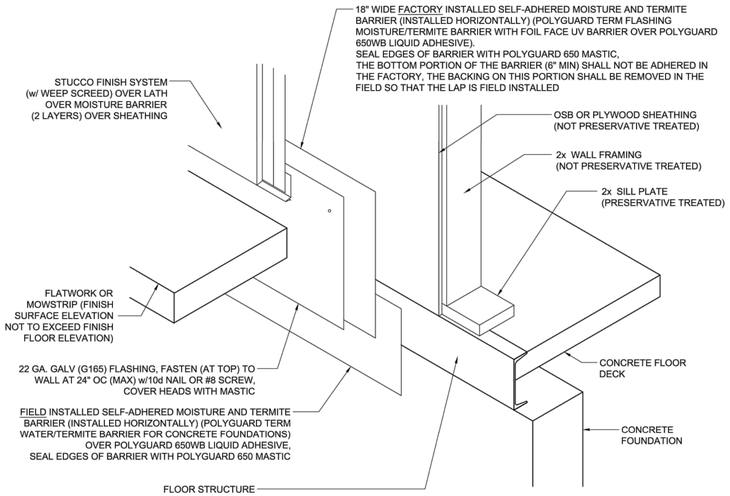
SINGLE PLY GUTTER END CAP
SCALE: 3" = 1'-0"

4



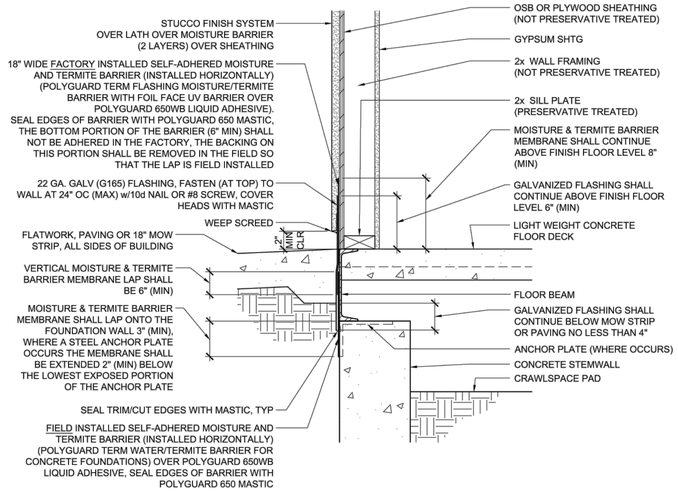
22 GA BOND
RH SIDEWALL STARTER
10'-0" LONG

SIDEWALL STARTER FLASHING (RH)
FOR 22 GA STANDING SEAM ROOF
SCALE: 3" = 1'-0"



NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

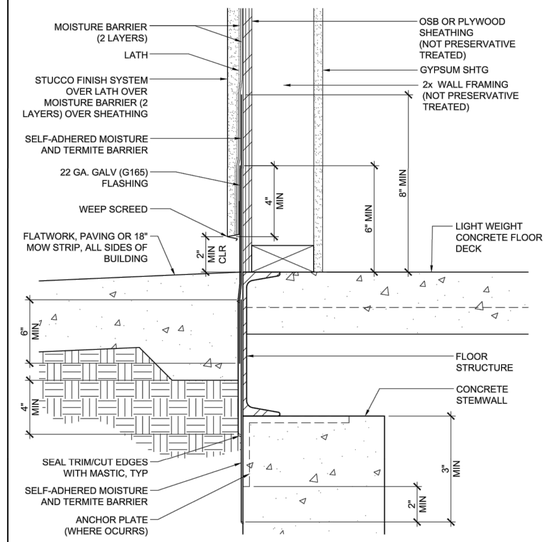


NOTE:
WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S) (WHERE OCCURS) THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

SECTION VIEW

DETERIORATION PROTECTION

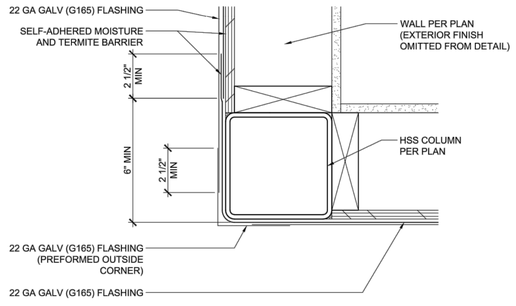
SCALE : NTS | 7



NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

TYPICAL EXTERIOR WALL SILL

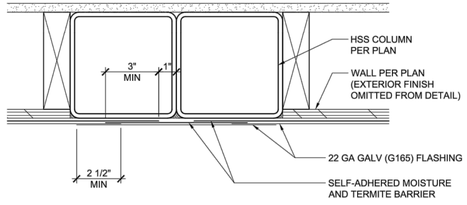
SCALE : NTS | 2



OUTSIDE CORNER

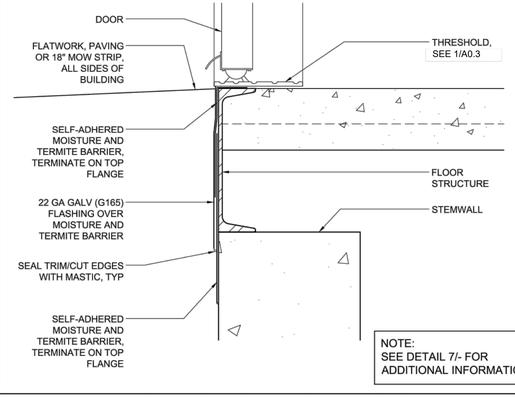
DETERIORATION PROTECTION - CORNER CONDITIONS

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

- 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.

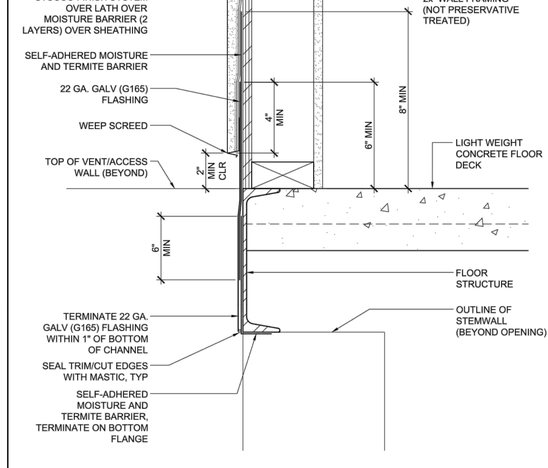
INSPECTION REQUIREMENTS

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

DETERIORATION PROTECTION STUCCO EXTERIOR FINISH CONC FLOOR - WD STUDS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
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DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN J. OMER · No. S 4437 · Exp 12/31/ · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

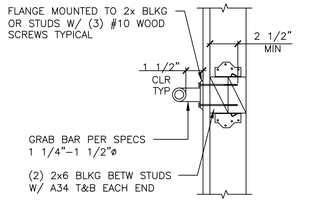
1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

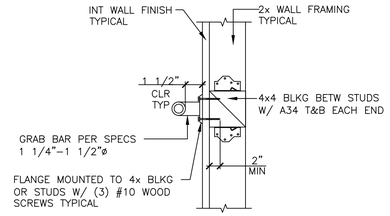
SHEET NUMBER

A8.5

NOT USED

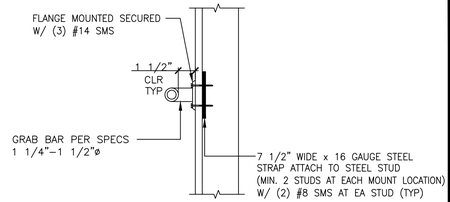


ALTERNATE: GRAB BAR BLOCKING–WOOD



GRAB BAR BLOCKING–WOOD

NOTE: GRAB BAR–ATTACHMENT MUST MEET MIN 250# POINT LOAD



GRAB BAR BLOCKING–STEEL

GRAB BAR ATTACHMENT DETAILS

1

NOT USED

2

NOT USED

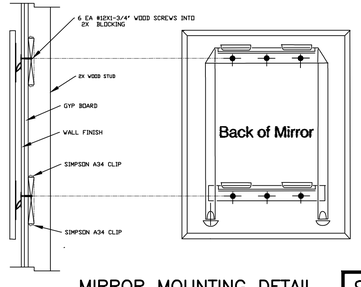
5

NOT USED

4

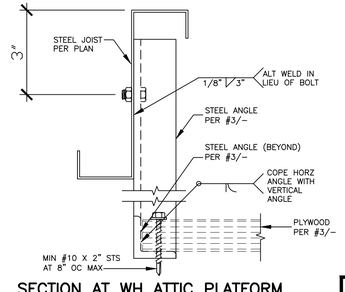
NOT USED

3



MIRROR MOUNTING DETAIL

8



SECTION AT WH ATTIC PLATFORM

SCALE: 6" = 1'–0"

7

GENERAL NOTES

1. REAR GRAB BAR EXCEPTION #2 SECTION 11B–604.5.2
   WHERE ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA

2. TOILET STALLS FOR DISABLED PERSONS SHALL HAVE SLIDE BOLTS DOOR LATCH, U–SHAPE OR WIRE PULLS BOTH SIDES OF THE DOOR (IMMEDIATELY BELOW THE LATCH) AND SELF–CLOSING HINGES DOOR HARDWARE SHALL BE MOUNTED AT 34" TO 44" ABOVE FINISHED FLOOR

PROJECT SPECIFIC STATE AGENCY APPROVAL

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

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PROJECT NO.:	00-0000
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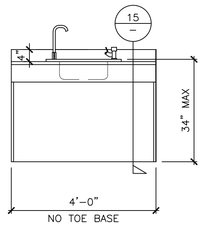
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A10.0

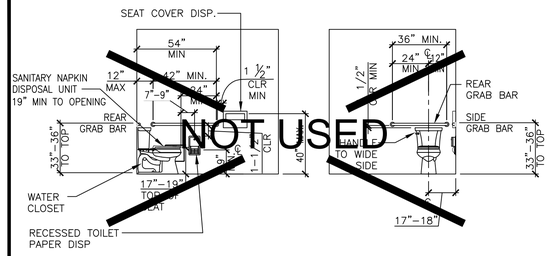


NOTE:
1. SEE SHEET A8.1 FOR CASEWORK BLOCKING & WALL/FLOOR ATTACHMENTS
2. SEE PLUMBING SCHEDULE ON SHT P0.0 FOR SINK DEPTH
3. SEE SHEET PLUMBING FOR LOCATION

(OPTIONAL) CLASSROOM SINK ELEVATION
SCALE: 1/2" = 1'-0"
16

NOT USED
11

NOT USED
6



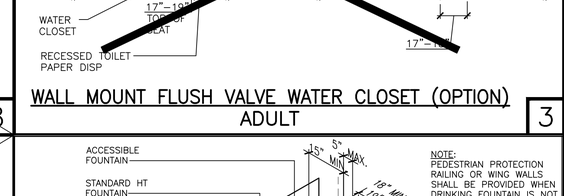
NOT USED

FLOOR MOUNT TANK TYPE WATER CLOSET (OPTION)
ADULT
1

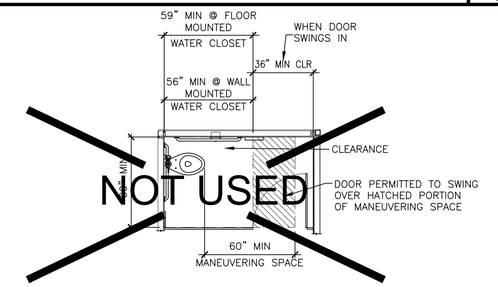
NOT USED
17

NOT USED
12

NOT USED
7

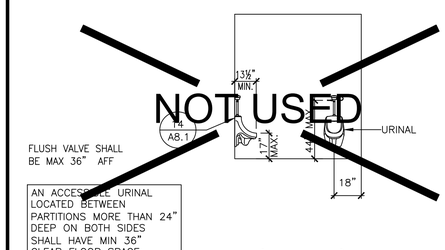


FLOOR MOUNT FLUSH VALVE WATER CLOSET (OPTION)
ADULT
2



NOT USED

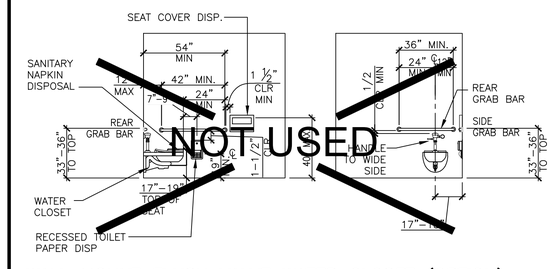
MANEUVERING SPACE
WITH SIDE-OPENING DOOR
18



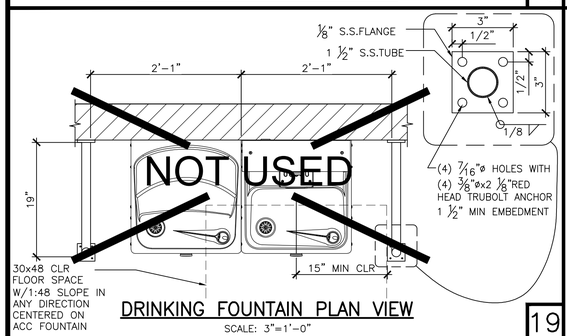
NOT USED

(OPTIONAL)
WALL MOUNT URINAL
13

NOT USED
8

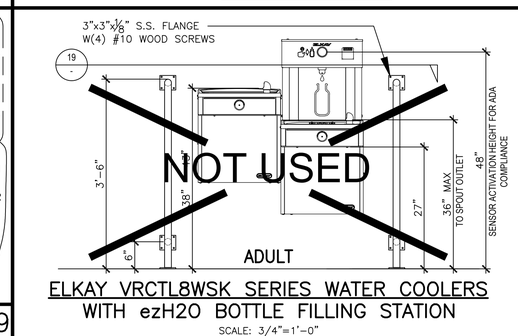


WALL MOUNT FLUSH VALVE WATER CLOSET (OPTION)
ADULT
3



NOT USED

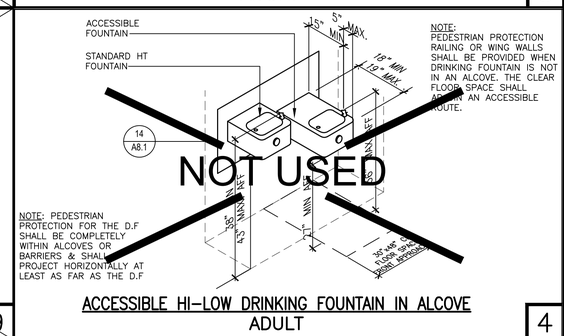
DRINKING FOUNTAIN PLAN VIEW
SCALE: 3"=1'-0"
19



NOT USED

ELKAY VRCTL8WSK SERIES WATER COOLERS
WITH ezH2O BOTTLE FILLING STATION
SCALE: 3/4"=1'-0"
14

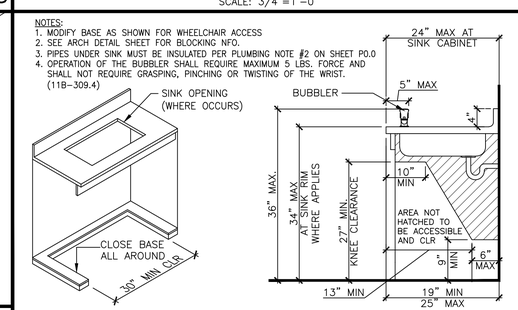
NOT USED
9



NOT USED

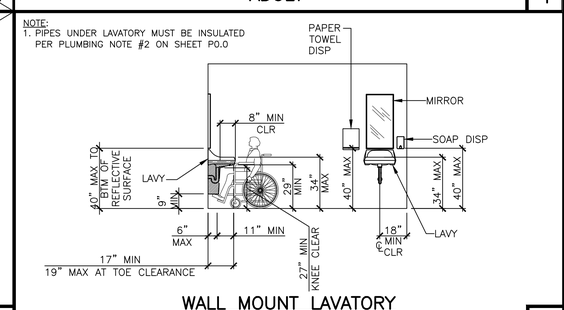
ACCESSIBLE HI-LOW DRINKING FOUNTAIN IN ALCOVE
ADULT
4

NOT USED
20



ADULT ACCESSIBLE SINK COUNTER TOP
15

NOT USED
10



WALL MOUNT LAVATORY
ADULT
5

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APP: 02-122839 INC:
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PROJECT NAME:

SHEET TITLE:

RESTROOM ACCESSIBILITY DETAILS
ADULT

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APP: 02-121341 PC
REVIEWED FOR
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DATE: 11/6/2023

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4437 Exp. 12/31/25 STRUCTURAL STATE OF CALIFORNIA

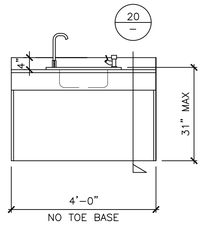
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER
A10.1a



NOTE:
1. SEE SHEET A8.1 FOR CASEWORK BLOCKING & WALL/FLOOR ATTACHMENTS
2. SEE PLUMBING SCHEDULE ON SHT P0.0 FOR SINK DEPTH
3. SEE SHEET PLUMBING FOR LOCATION

(OPTIONAL) CLASSROOM SINK ELEVATION
SCALE: 1/2" = 1'-0"

16

NOT USED

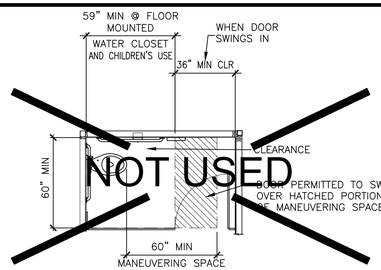
11

NOT USED

6

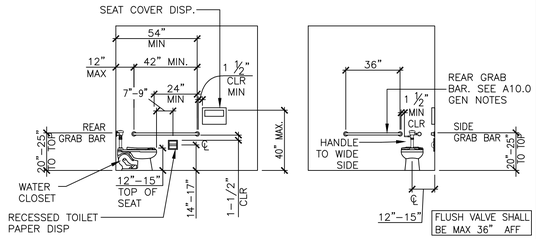
NOT USED

1



MANEUVERING SPACE
WITH SIDE-OPENING DOOR

18



FLOOR MOUNT FLUSH VALVE WATER CLOSET
AGES 5 THROUGH 8

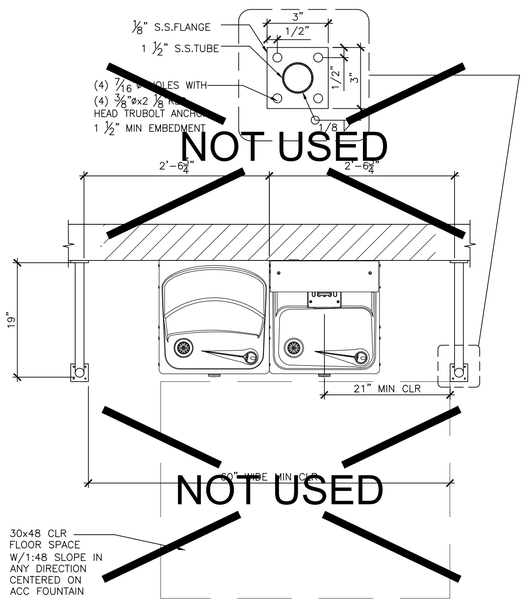
12

NOT USED

7

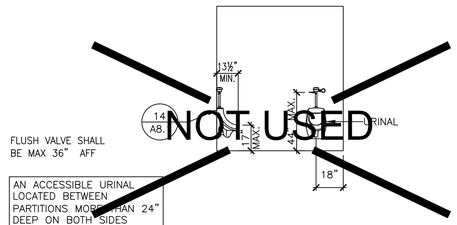
NOT USED

2



DRINKING FOUNTAIN PLAN VIEW
SCALE: 3"=1'-0"

19



(OPTIONAL)
WALL MOUNT URINAL

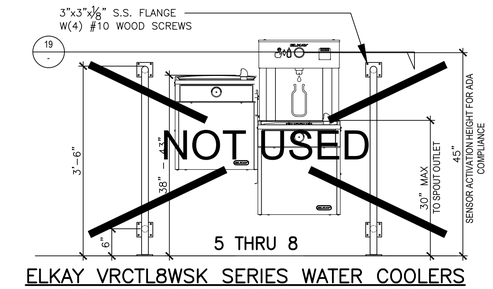
13

NOT USED

8

NOT USED

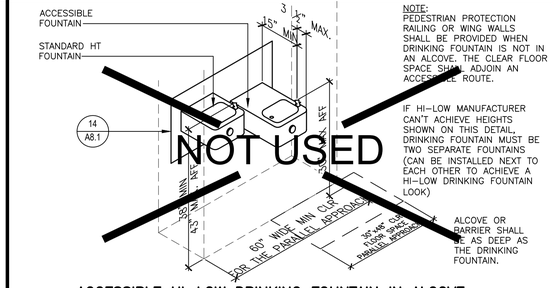
3



ELKAY VRCTL8WSK SERIES WATER COOLERS
WITH ezH2O BOTTLE FILLING STATION
SCALE: 3/4"=1'-0"

14

5 THRU 8



NOTE:
PEDESTRIAN PROTECTION RAILING OR WING WALLS SHALL BE PROVIDED WHEN DRINKING FOUNTAIN IS NOT IN AN ALCOVE. THE CLEAR FLOOR SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE.

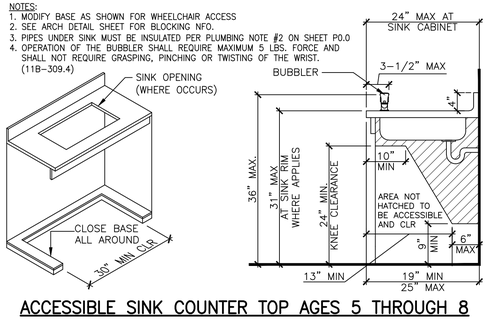
IF HI-LOW MANUFACTURER CAN'T ACHIEVE HEIGHTS SHOWN ON THIS DETAIL, DRINKING FOUNTAIN MUST BE TWO SEPARATE FOUNTAINS (CAN BE INSTALLED NEXT TO EACH OTHER TO ACHIEVE A HI-LOW DRINKING FOUNTAIN LOOK)

ACCESSIBLE HI-LOW DRINKING FOUNTAIN IN ALCOVE
AGES 5 THROUGH 8

9

NOT USED

4

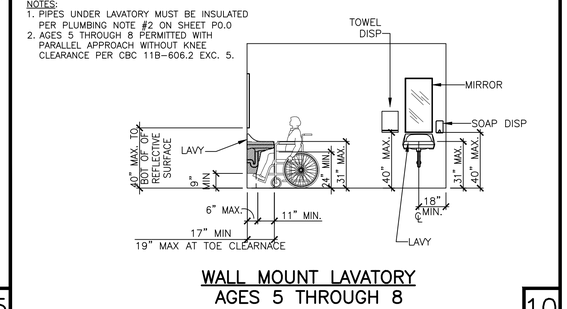


ACCESSIBLE SINK COUNTER TOP AGES 5 THROUGH 8

20

NOT USED

15



WALL MOUNT LAVATORY
AGES 5 THROUGH 8

10

NOT USED

5

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR Incorporated
AURORA DESIGNS · MODTECH Designs · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

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PROJECT NAME:

SHEET TITLE:

RESTROOM ACCESSIBILITY DETAILS
AGES 5 THRU 8

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMEARA
No. S 4497
Exp 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

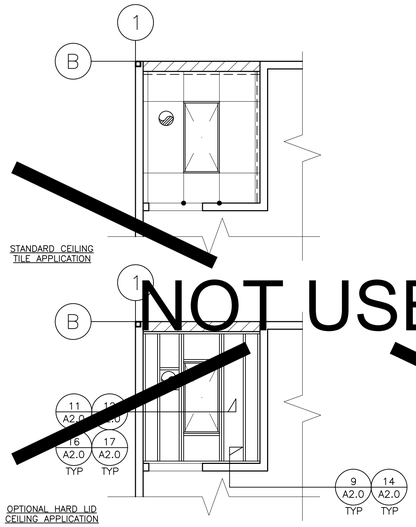
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A10.1c

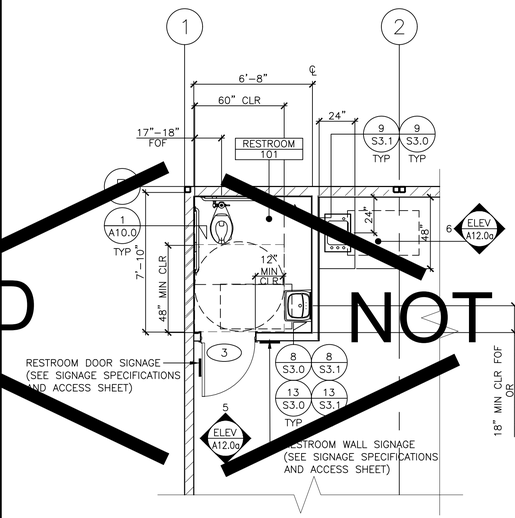


SEE REFLECTED CEILING SHEETS FOR MORE INFO

JANITOR/RR OPT REFL CEILING PLAN

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

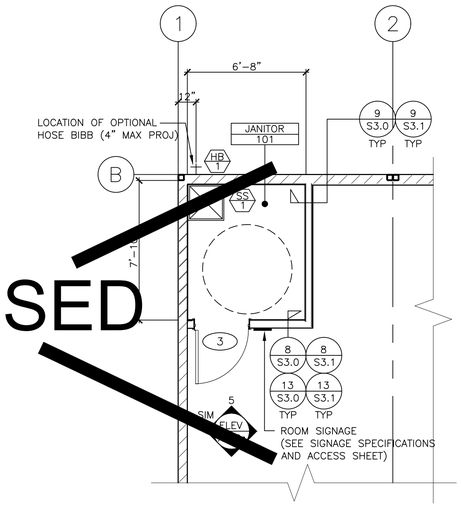
NOT USED



OPTIONAL RESTROOM FLOOR PLAN

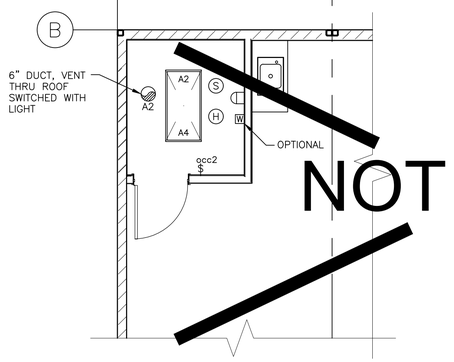
SCALE: 1/4" = 1'-0"

NOT USED



OPTIONAL JANITOR ROOM FLOOR PLAN

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

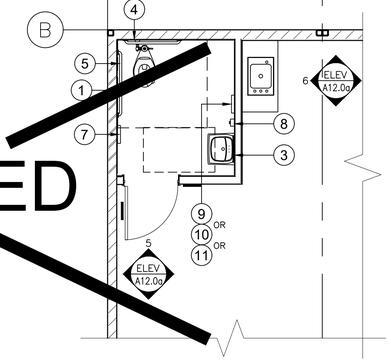


SEE ELECTRICAL SHEETS FOR MORE INFO

JANITOR/RR OPT ELECTRICAL PLAN

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

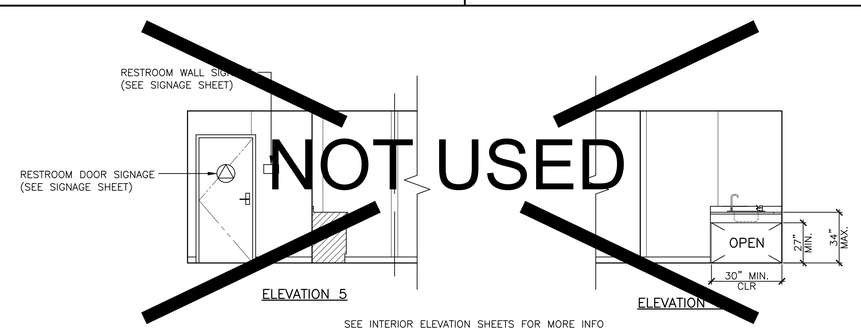
NOT USED



FLOOR PLAN WITH RESTROOM ACCESSORIES

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

NOT USED



SEE INTERIOR ELEVATION SHEETS FOR MORE INFO

INTERIOR ELEVATIONS FOR OPTIONAL ROOMS

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

LEGEND

(*)	PLUMBING ACCESSORY CALL OUT (REFERENCE TO ACCESSORY SCHEDULE BELOW)
FOF	FACE OF FINISH
NOTE #1	USE 18" MIN CLR WHEN THERE ARE NO ADJACENT ACCESSORIES TO THE LAVATORY OR ACCESSORIES MUST BE LESS THAN 3" PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE USE 19" MIN CLR FOR ACCESSORIES UP TO 4" MAX PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE

NOTE:
THE INTERIOR WALLS SEPARATING CLASSROOMS, AND INTERIOR WALLS SEPARATING CLASSROOMS FROM BATHROOMS SHALL MEET MINIMUM 40 STC.

NOTE:
REFER TO SHEETS P1.1-PS, P1.2-PS & P1.3-PS FOR TOILET ACCESSORY SCHEDULES

TOILET ACCESSORIES – SCHEDULE

REF. NUMBER	MODEL AND DESCRIPTION	LOCATION/HEIGHT
1	DOUBLE ROLL TOILET PAPER DISP AT ACCESSIBLE STALL, 'BOBRICK' B-265 OR APPROVED EQUAL DBL ROLL BY MANUF ☐ BY DISTRICT ☐	19" MIN. AFF MIN TO OUTLET 7" TO 9" TO ℄ FROM OUTSIDE EDGE IN FRONT OF TOILET, SEE 1 OR 2/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
2	NOT USED	
3	MIRROR (18" x 36") 'BOBRICK' B-165 1836 SERIES OR APPROVED EQUAL BY MANUF ☐ BY DISTRICT ☐	SEE 5/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
4	GRAB BAR (REAR) 'BOBTICK' B-6806, 36" SS BY MANUF ☐ BY DISTRICT ☐	SEE 1, 2, OR 3/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
5	GRAB BAR (SIDE) 'BOBRICK' B-6806, 42" SS BY MANUF ☐ BY DISTRICT ☐	SEE 1, 2, OR 3/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
6	NOT USED	
7	TOILET SEAT COVER DISP. SURFACE MOUNT. 'BOBRICK' B-221 OR APPROVED EQUAL BY MANUF ☐ BY DISTRICT ☐	SEE 1, 2, OR 3/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
8	SOAP DISPENSER SURFACE MOUNT. BOBRICK' B-2111 OR APPROVED EQUAL, BY MANUF ☐ BY DISTRICT ☐	SEE 5/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
9	PAPER TOWEL DISPENSER 'BOBRICK' B-262 OR APPROVED EQUAL, SURFACE MOUNT, 4" MAX PROJ BY MANUF ☐ BY DISTRICT ☐	SEE 5/A10.1a FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
10	PAPER TOWEL AND WASTE DISPENSER COMBO BOBRICK B-369 OR APPROVED EQUAL, RECESSED, (OPTIONAL) BY MANUF ☐ BY DISTRICT ☐	ACCESSIBLE MOUNT AT +40" MAX AFF FROM TOP OF OPERATIONAL PARTS.
11	HAND DRYER: 'BOBRICK' (OPTIONAL) MODEL B-7120 COLOR: WHITE BY MANUF ☐ BY DISTRICT ☐	ACCESSIBLE MOUNT AT +40" MAX AFF FROM TOP OF OPERATIONAL PARTS.

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

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PROJECT NAME:

SHEET TITLE:

24'x40'
RESTROOM OPTION & ACCESSORY PLAN ADULT

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

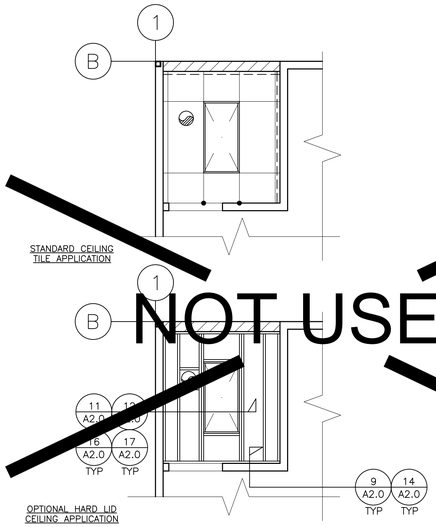
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

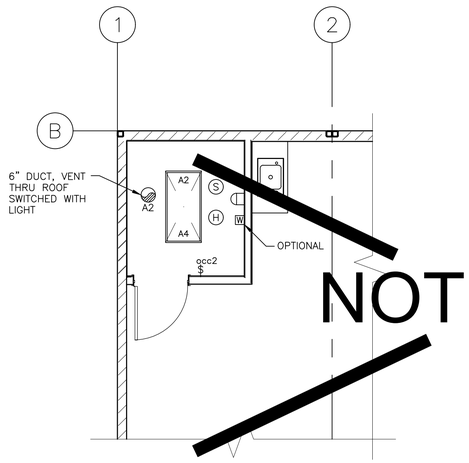
A12.0a



SEE REFLECTED CEILING SHEETS FOR MORE INFO

JANITOR/RR OPT REFL CEILING PLAN

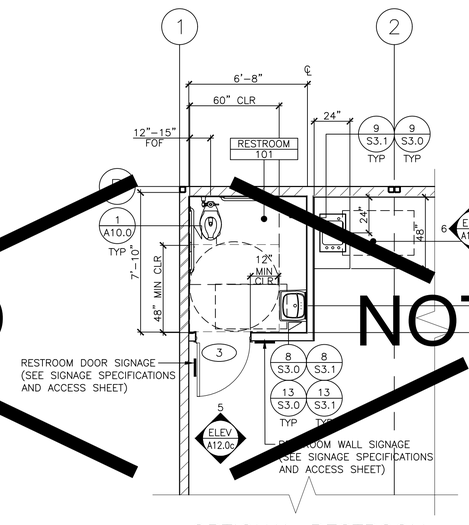
SCALE: 1/4" = 1'-0"



SEE ELECTRICAL SHEETS FOR MORE INFO

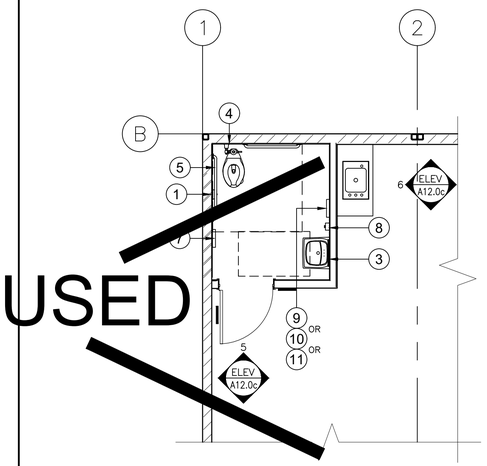
JANITOR/RR OPT ELECTRICAL PLAN

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



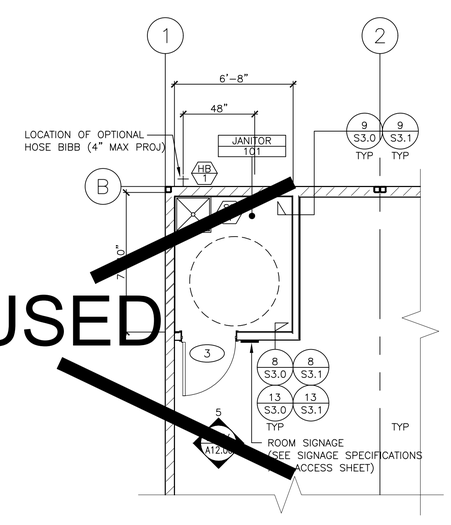
OPTIONAL RESTROOM FLOOR PLAN

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



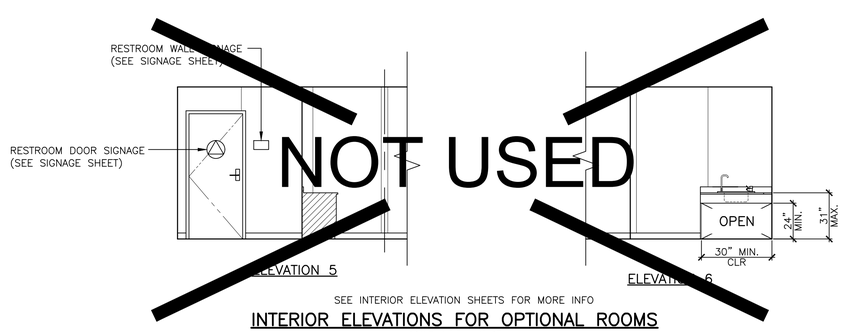
FLOOR PLAN WITH RESTROOM ACCESSORIES

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



OPTIONAL JANITOR ROOM FLOOR PLAN

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



SEE INTERIOR ELEVATION SHEETS FOR MORE INFO

INTERIOR ELEVATIONS FOR OPTIONAL ROOMS

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

NOT USED

NOT USED

NOT USED

LEGEND

(*)	PLUMBING ACCESSORY CALL OUT (REFERENCE TO ACCESSORY SCHEDULE BELOW)
FOF	FACE OF FINISH
NOTE #1	USE 18" MIN CLR WHEN THERE ARE NO ADJACENT ACCESSORIES TO THE LAVATORY OR ACCESSORIES MUST BE LESS THAN 3" PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE USE 19" MIN CLR FOR ACCESSORIES UP TO 4" MAX PROJECTION SO IT DOES NOT ENCROACH INTO REQUIRED CLEAR SPACE

NOTE:
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NOTE:
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TOILET ACCESSORIES – SCHEDULE

REF. NUMBER	MODEL AND DESCRIPTION	LOCATION/HEIGHT
1	DOUBLE ROLL TOILET PAPER DISP AT ACCESSIBLE STALL, 'BOBRICK' B-265 OR APPROVED EQUAL DBL ROLL BY MANUF ☐ BY DISTRICT ☐	14" TO 17" AFF TO OUTLET 7" TO 9" TO ℄ FROM OUTSIDE EDGE IN FRONT OF TOILET, SEE 12/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
2	NOT USED	
3	MIRROR (18" X 36") 'BOBRICK' B-165, 1836 SERIES OR APPROVED EQUAL BY MANUF ☐ BY DISTRICT ☐	SEE 10/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
4	GRAB BAR (REAR) 'BOBTICK' B-6806, 36" SS BY MANUF ☐ BY DISTRICT ☐	SEE 12/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES EXCEPTION: SEE REAR GRAB BAR EXCEPTION ON GENERAL NOTES SEE DETAIL 1/A10.0 FOR GRAB BAR WALL ATTACHMENT
5	GRAB BAR (SIDE) 'BOBRICK' B-6806, 42" SS BY MANUF ☐ BY DISTRICT ☐	SEE 12/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES EXCEPTION: SEE REAR GRAB BAR EXCEPTION ON GENERAL NOTES SEE DETAIL 1/A10.0 FOR GRAB BAR WALL ATTACHMENT
6	NOT USED	
7	TOILET SEAT COVER DISP. SURFACE MOUNT. 'BOBRICK' B-221 OR APPROVED EQUAL BY MANUF ☐ BY DISTRICT ☐	SEE 10/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
8	SOAP DISPENSER SURFACE MOUNT. BOBRICK' B-2111 OR APPROVED EQUAL, BY MANUF ☐ BY DISTRICT ☐	SEE 10/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
9	PAPER TOWEL DISPENSER 'BOBRICK' B-262 OR APPROVED EQUAL, SURFACE MOUNT, 4" MAX PROJ BY MANUF ☐ BY DISTRICT ☐	SEE 10/A10.1c FOR LOCATION SEE OPTIONAL RESTROOM FLOOR PLAN WITH ACCESSORIES
10	PAPER TOWEL AND WASTE DISPENSER COMBO BOBRICK B-369 OR APPROVED EQUAL, RECESSED, (OPTIONAL) BY MANUF ☐ BY DISTRICT ☐	ACCESSIBLE MOUNT AT +36" MAX AFF FROM TOP OF OPERATIONAL PARTS.
11	HAND DRYER: 'BOBRICK' (OPTIONAL) MODEL B-7120 COLOR: WHITE BY MANUF ☐ BY DISTRICT ☐	ACCESSIBLE MOUNT AT +36" MAX AFF FROM TOP OF OPERATIONAL PARTS.

CHILDREN'S SUGGESTED WATER CLOSET HEIGHTS CHART

PER TABLE 11B-604.9
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

	AGES 5 THROUGH 8
WATER CLOSET CENTERLINE	12 – 15 INCHES
TOILET SEAT HEIGHT	12 – 15 INCHES
GRAB BAR HEIGHT	20 – 25 INCHES
TOILET PAPER DISPENSER HEIGHT	14 – 17 INCHES
LAVATORY RIM HEIGHT	24 INCHES
SOAP,PAPER TOWEL, SEAT COVER DISP HT	32 INCHES

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PROJECT NAME:

SHEET TITLE:

24'x40'
RESTROOM OPTION & ACCESSORY PLAN
AGES 5 THRU 8

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MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

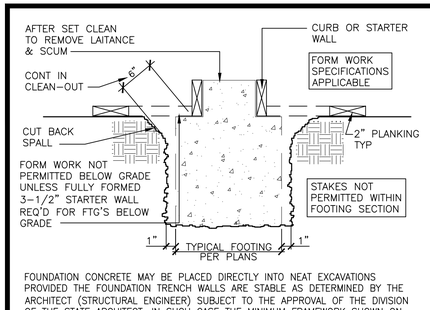
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

A12.0c

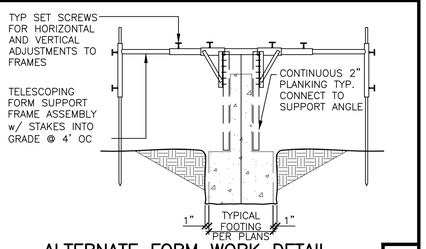


FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER) SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FRAMEWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE

MANDATORY MINIMUM FORM WORK

(UNLESS FULLY FORMED)

15

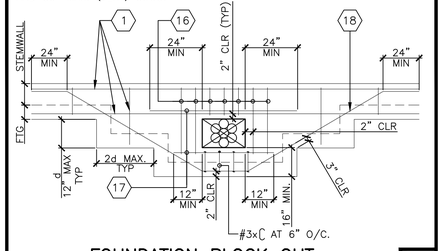


ALTERNATE FORM WORK DETAIL

SCALE: NTS

16

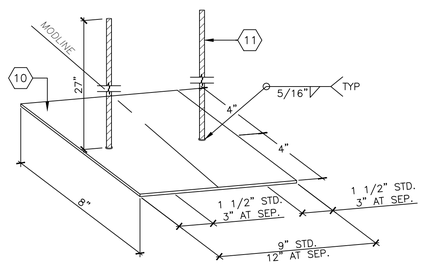
NOTE:
BLOCK-OUT IS A MAX. 30" MAX. (HORZ) AND 30" MAX. (VERT) U.N.O.



FOUNDATION BLOCK OUT

SCALE: NTS

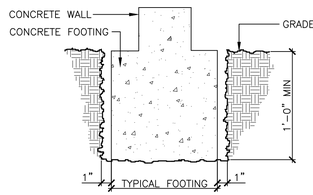
10



PAD FOOTING ANCHOR PLATE

SCALE: 1"=1'-0"

6



NON-FORMED FOOTINGS UNDER FOLLOWING CONDITIONS: (1) SOIL WILL STAND WITHOUT SLOUGHING (2) TRENCH ONE (1) INCH WIDER ON ALL SIDES. (3) PROVIDE POSITIVE PROTECTION OF TOP EDGES.

NON-FORMED FOOTING (OPTIONAL)

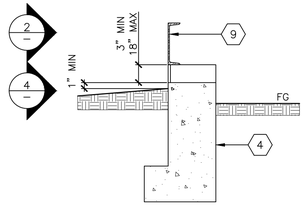
SCALE: NTS

1

KEY NOTES

1. REBARS PER SHEET F2.0 OR F3.0.
2. ONE ADDITIONAL REBAR AT OPENING. REBAR SIZE TO MATCH TOP AND BOTTOM REBARS ACCORDINGLY.
3. GRATE IN PATH OF TRAVEL (ADA)- STD WELDED STEEL 1 1/4" X 3/16" BEARING BARS. ELONGATED 1/2" OPENINGS PERPENDICULAR TO ROUTE OF TRAVEL, ALL WALKWAYS. IN LOCATIONS THERE IS NO DOMINANT FLOW PATTERN, OPENINGS SHOULD BE LIMITED TO 1/2" IN BOTH DIRECTIONS (BY CONCRETE CONTRACTOR); FOR STANDARD GRATE SEE GENERAL NOTE #8 BELOW
4. FOUNDATION WALL AND FTG PER SHEET F2.0 OR F3.0.
5. REBAR - #5 CONTINUOUS @ MID HEIGHT
6. ANGLE FRAME: L-1 1/2" X 1 1/2" X 1/4"
7. #10 X 1 1/2" GALV. TEK SCREW AT 16" O.C. MAX.
8. 1/4"ø x3" IN ANCHOR BOLT. MIN OF 2
9. STEEL PERIMETER CHANNEL
10. 1/4" STEEL EMBEDMENT PLATE.
11. REBAR #6 A706 GRADE 60, 27" LONG MIN. WELDED TO STEEL PLATE.
12. 3/16" MIN SHIM PLATE, MAY BE A SINGLE PLATE OR COMBO OF MULTIPLE PLATES WITH MAX SHIM HEIGHT OF 1". GAPS UP TO 1/4" DO NOT REQUIRE A SHIM. USE AS REQUIRED
13. REBAR - (1) #4 AT 12" O.C. AT CENTER LINE OF WALL.
14. REBAR - #4 "L" AT 12" O.C. MAX. AT STEP DOWN LOCATION.
15. REBAR - #5 " " AT STEP DOWN LOCATION.
16. REBAR - #3 AT 6" O.C. AROUND BLOCK-OUT.
17. REBAR - (1) #5 TOP AND BOTTOM OF BLOCK-OUT.
18. REBAR - #5 " " AT STEP DOWN LOCATION
19. REBAR - (1) #4 TOP OR BOTTOM
20. REBAR - #4 GRADE 60 @ 12" OC AT CENTER OF WALL

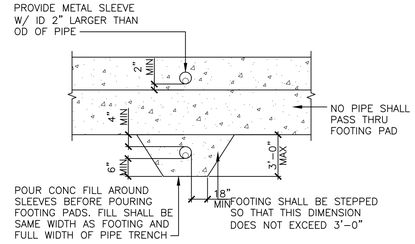
NOTE:
3" MIN FOR VENT OPENING (ABOVE GRADE)
12" MIN FOR VENT OPENING (FLUSH TO GRADE)
18" MIN FOR ACCESS OPENING (FLUSH TO GRADE)

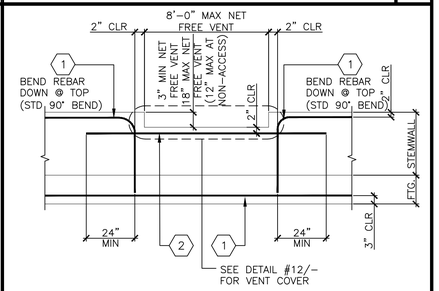


VENT OPENING AT FOUNDATION

SCALE: 1"=1'-0"

11

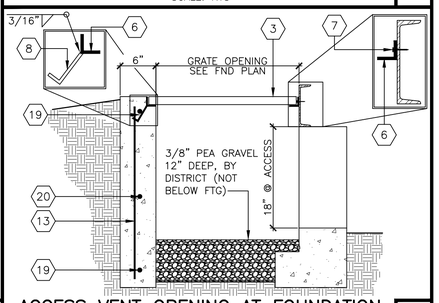




OPENING IN STEM WALL (ABOVE GRADE)

SCALE: NTS

2



ACCESS VENT OPENING AT FOUNDATION

SCALE: 1"=1'-0"

3

GENERAL NOTES:

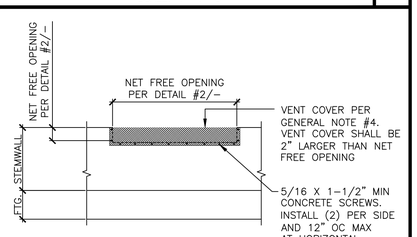
1. DESIGN SOIL BEARING PRESSURE VALUE FOR NON EXPANSIVE SOIL IS 1500 PSF FOR DEAD LOAD PLUS LIVE LOAD. FOUNDATION DETAILS SHOWN ARE BASED ON MINIMUM CODE REQUIREMENTS. FOUNDATION IS SUBJECT TO APPROVAL BY LOCAL ENFORCEMENT AGENCY DUE TO SPECIAL SOIL AND/OR SITE CONDITIONS PRESENT.
2. ALL FOOTINGS SHALL REST 12" IN BELOW NATURAL GRADE AND FINISHED GRADE OF THE FROST LINE. ALL FOOTINGS SHALL REST ON FIRM, UNDISTURBED SOIL. WHERE FROST LINE DEPTH MAY PRESENT A PROBLEM, CONTRACTOR SHALL CONSULT DSA FOR RECOMMENDATIONS AS TO REQUIRED DEPTH OF FOOTING. THE RESULTS OF SUCH INVESTIGATION SHALL BE INCLUDED IN THE APPROVED SET OF DRAWINGS.
3. WHERE TERMITE HAZARD EXISTS TREAT SOIL AT GROUND CONTACT POINTS, INSIDE AND OUTSIDE FOUNDATION.
4. UNDER FLOOR AREAS SHALL BE VENTILATED 1 SF FOR EACH 150 SF OF UNDER FLOOR AREA. OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH NOT LESS THAN 0.070 THICK WITH MESH OPENINGS OF 1/4" (REST OF REQUIREMENTS TO COMPLY WITH CBC, SECTION 1202.4)
5. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS, MATERIAL SPECIFICATIONS, CONDITIONS AND DIMENSIONS SHOWN ON PLANS AGAINST ACTUAL JOB SITE, FLOOR PLAN AND MANUFACTURER'S REQUIREMENTS TO CHECK FOR ANY REQUIRED TOLERANCES FOR FOUNDATION LAYOUTS, SUCH AS, GAP AT MODLINES. NOTIFY ENGINEER OF THE FOLLOWING: ABNORMAL CONDITIONS, DEFICIENCIES, DISCREPANCIES, CLARIFICATION, MISUNDERSTANDINGS, TYPOS, MISTAKES, ITEMS MISSING FROM DRAWINGS, MISSING REFERENCE, DETAILS OR NOTES BEFORE PROCEEDING.
6. PROVIDE CRAWL SPACE DRAINAGE, FOR AND AROUND BUILDING AS NEEDED. (BY OWNER)
7. REQUIRED DIMENSIONS FOR FOUNDATION LAYOUT TO BE BASED ON SPECIFIC FLOOR PLAN.
8. GRATE: NET OPENING AT VENT TO BE 12"x48". NET OPENING AT ACCESS TO BE 24"x36"
9. DETAIL #11 VERTICAL REINFORCEMENTS NOT SHOWN FOR CLARITY
10. DO NOT LOCATE BLOCK OUT WITHIN 4'-0" OF SIDE WALL HOLD DOWN, FRAME COLUMN & COLUMN PAD FOOTING

NOTES:

1. ***WHEN THE BUILDING IS INSTALLED AT GROUND LEVEL (BELOW GRADE FOUNDATION OPTION) DETAIL 11/F3.0 CAN ONLY BE USED WHERE THE BUILDING SIZE DOES NOT EXCEED 2,160 SF. SEE SHEETS A8.4 THRU A-8.11 FOR ALTERNATE FLASHING DETAILS FOR BUILDINGS LARGER THAN 2,160 SF.***
2. ***THE DETAILS ON SHEETS A-8.4 THRU A-8.11 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.***

NOT USED

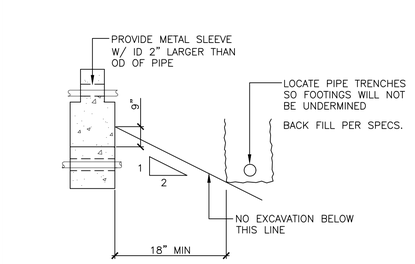
17



STEM WALL VENT COVER (ABOVE GRADE)

SCALE: NTS

12



FOOTING EXECUTIONS

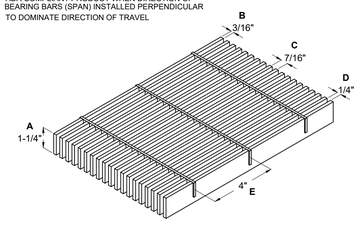
SCALE: NTS

7

NOT USED

18

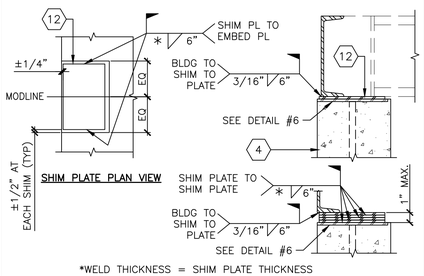
ADA COMPLIANT PRODUCT WHEN DIRECTION OF BEARING BARS (SPAN) INSTALLED PERPENDICULAR TO DOMINATE DIRECTION OF TRAVEL



TYPICAL GRATE

SCALE: NTS

13

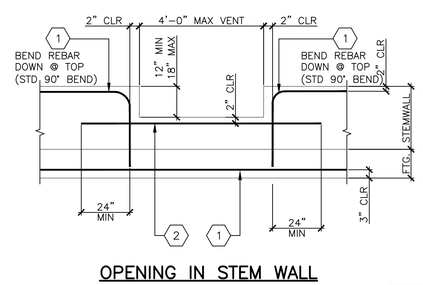


*WELD THICKNESS = SHIM PLATE THICKNESS

SHIM PLATE

SCALE: 1"=1'-0"

8



OPENING IN STEM WALL (FLUSH TO GRADE)

SCALE: NTS

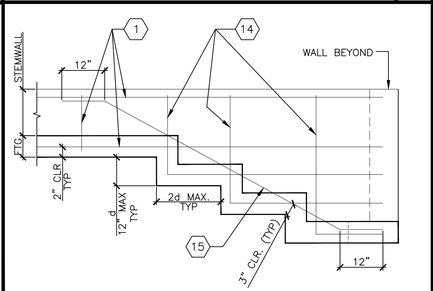
4

NOT USED

19

NOT USED

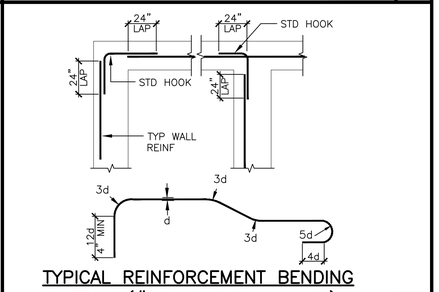
14



ALTERNATE STEP FOOTING DETAIL

SCALE: NTS

9



TYPICAL REINFORCEMENT BENDING DETAIL (#5 BAR OR SMALLER)

SCALE: NTS

5

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Design MODULAR STRUCTURES INTERNATIONAL, INC. DESIGN

CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

GENERAL DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4437 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

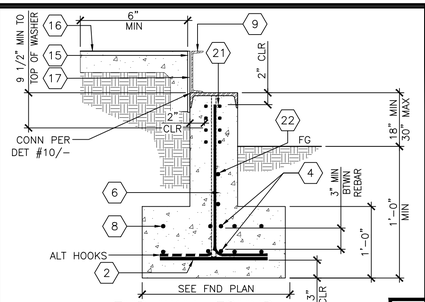
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

F0.0

NOT USED

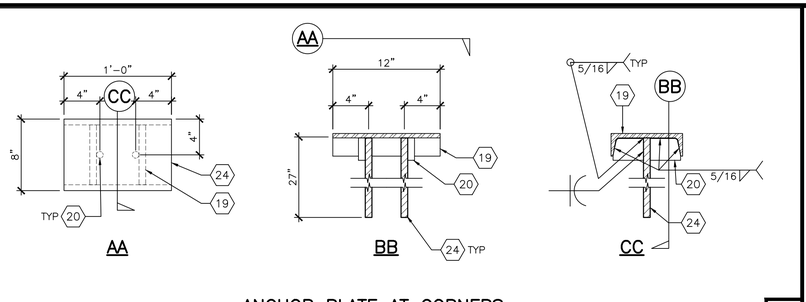
14



END WALL FOUND

SCALE: 1" = 1'-0"

9



ANCHOR PLATE AT CORNERS

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

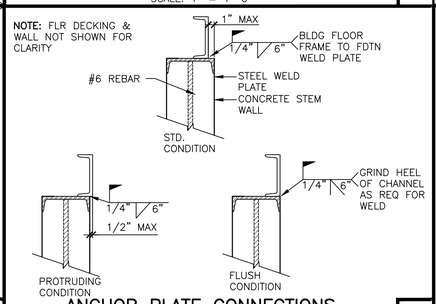
1

KEY NOTES

1. #5 REBAR
2. #4 REBAR @ 24" OC
3. REBAR CAGE – #5 VERTICALS WITH #5 HORIZONTAL REBAR (90° BENDS AT EACH END) SPACED 12" OC MAX
4. REBAR – (2) #5 CONTINUOUS TOP AND BOTTOM, MIN. 1 1/2" APART
5. REBAR – (1) #5 CONTINUOUS TOP AND BOTTOM
6. REBAR – (1) #4 VERT @ 12" OC (CENTERED IN STEM WALL)
7. PROVIDE (2)–#4 CONT. LONGITUDINAL AND #4 @ 9" O.C. TRANSVERSE
8. (3) #5 AT TOP AND BOTTOM
9. STEEL PERIMETER FRAME – END CHANNEL
10. STEEL PERIMETER FRAME – SIDE CHANNEL
11. REBAR – #4 TIES @ 8" OC
12. REBAR – (2) #4 ▢ TIES AT TOP 5", MIN. 1 1/2" APART.
13. REBAR – #5 EA WAY (SEE SCHEDULE ON FOUNDATION PLAN FOR AMOUNT)
14. REBAR – (4) #5 VERT
15. FELT EXPANSION JOINT (NOT BY BUILDING MANUFACTURER)
16. MOW STRIP/CONCRETE SIDEWALK (NOT BY BUILDING MANUFACTURER)
17. 22 GA GALVANIZED SHEET METAL FLASHING EXTEND 6" BELOW PERIMETER FRAME
18. ANCHOR PLATE PER DETAIL #6, F0.0.
19. C8x18.75 STEEL EMBEDMENT PLAT
20. ℄ ¾"x2 ½" COPED AND FITTED TO C CHANNEL
21. REBAR – (4) #4 AT TOP STEMWALL AT EACH SIDE OF VERTICAL SPACED 1–1/2" CLR OF EACH REBARS
22. PROVIDE #4 @ 12" O.C. HORIZONTAL
23. L–6" X 4" X 1/2" THICK STEEL EMBEDMENT PLATE
24. #6 A706 REBAR GRADE 60 X 27" LONG MIN. WELDED TO STEEL PLATE
25. (4) #3 HAIR PIN TIES GRADE 60 ANCHOR REINFORCING, MIN 24" LAP AT EACH HAIR PIN
26. ℄ ⅜" X 3" X 5– ⅝"

NOT USED

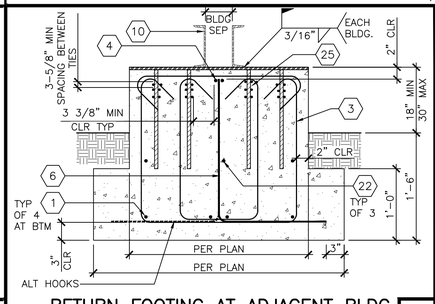
15



ANCHOR PLATE CONNECTIONS

SCALE: NTS

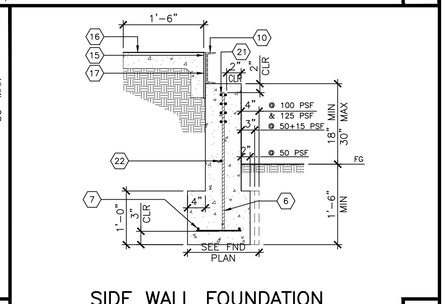
10



RETURN FOOTING AT ADJACENT BLDG

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

6



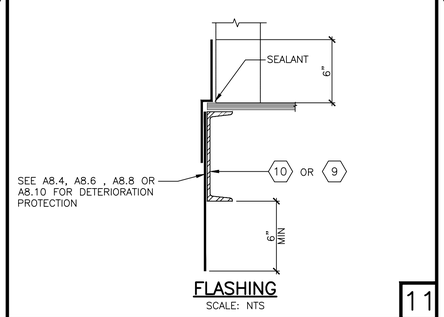
SIDE WALL FOUNDATION

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

2

NOT USED

16



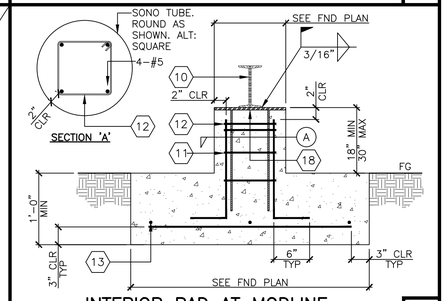
FLASHING

SCALE: NTS

11

NOT USED

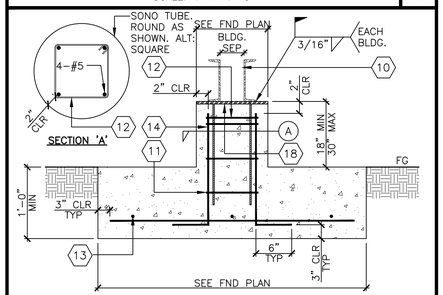
7



INTERIOR PAD AT MODLINE

SCALE: 1" = 1'-0"

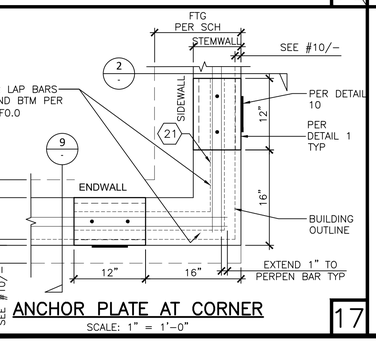
3



INTERIOR PAD AT ADJACENT BLDG

SCALE: 1" = 1'-0"

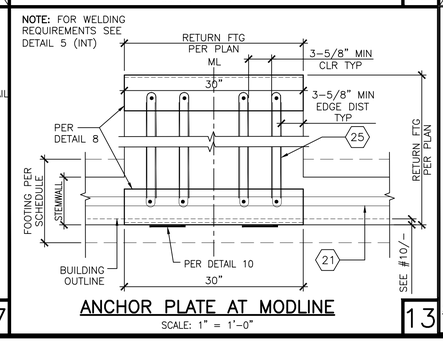
4



ANCHOR PLATE AT CORNER

SCALE: 1" = 1'-0"

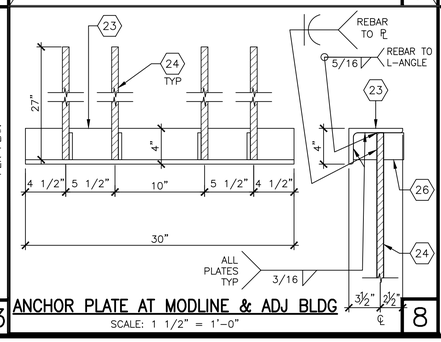
17



ANCHOR PLATE AT MODLINE

SCALE: 1" = 1'-0"

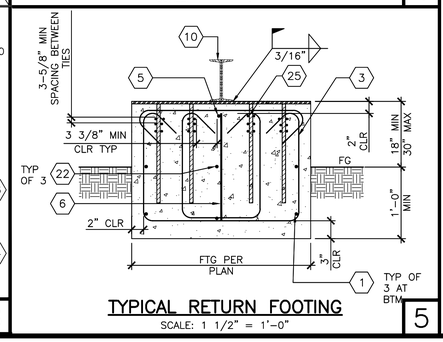
13



ANCHOR PLATE AT MODLINE & ADJ BLDG

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

8



TYPICAL RETURN FOOTING

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

5

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 03/07/2025

GLOBAL MODULAR incorporated

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FAX: (951) 686-3666
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PROJECT NAME:

SHEET TITLE:

FLUSH TO GRADE CONCRETE FOUNDATION DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMEARA
No. S 4497
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

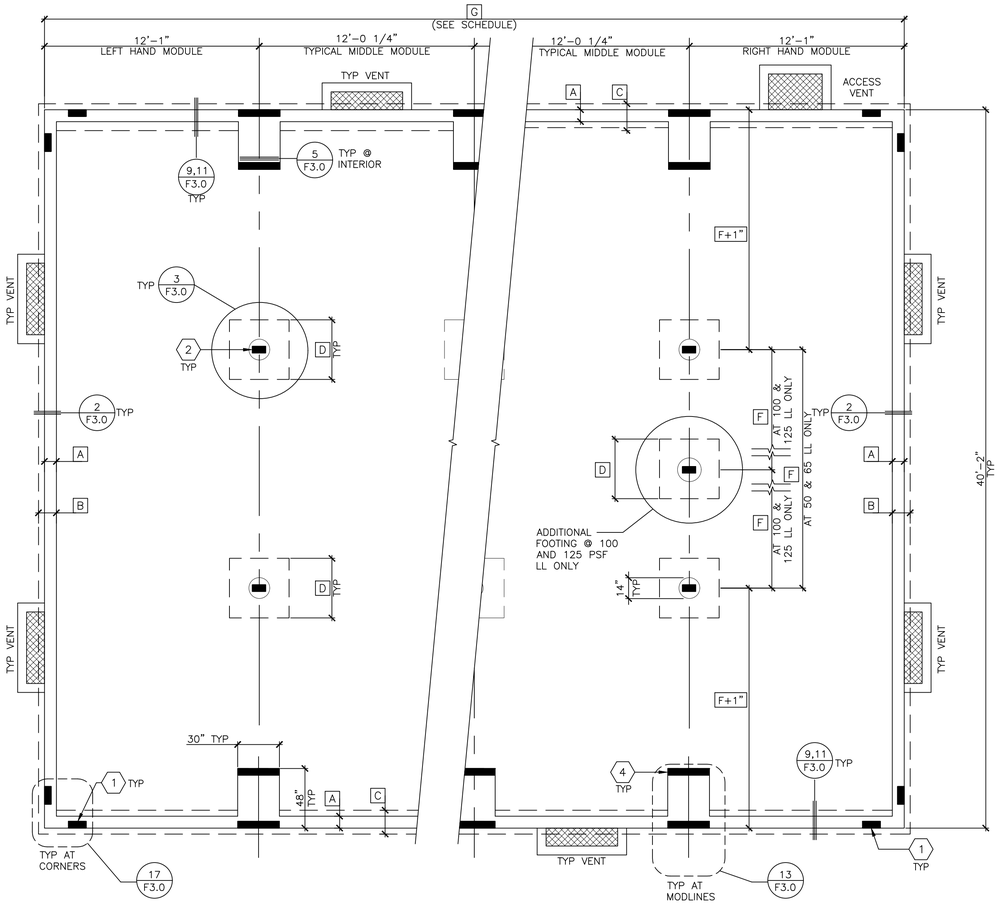
REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

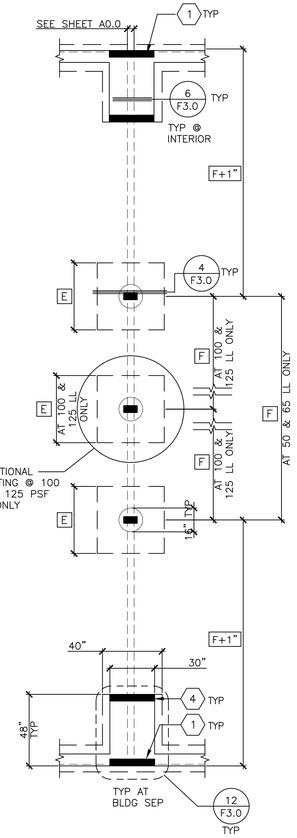
SHEET NUMBER

F3.0



50, 50+15, 100 & 125 PSF FOUNDATION PLAN

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



50, 50+15, 100 & 125 PSF ADJACENT BUILDING SEPARATION

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

SCHEDULES (☐=REF LETTERS TO SCHEDULES BELOW TYP)

NOTE:

THE SCHEDULE BELOW TAKES AN ACCOUNT OF (1) ACCESS VENT AND (3) TYPICAL VENT. THE DESIGN PROFESSIONAL CAN ADD ADDITIONAL VENTS IF NECESSARY.

MIN 2 VENTS REQUIRED FOR CROSS VENTILATION

REQUIRED VENTILATION		
BUILDING SIZE	VENTILATION REQUIRED	MIN # VENTS
24'x40'	6.4 SF	2
36'x40'	9.6 SF	3
48'x40'	12.8 SF	4
60'x40'	16.0 SF	5
72'x40'	19.2 SF	6
84'x40'	22.4 SF	7
96'x40'	25.6 SF	8
108'x40'	28.8 SF	9
120'x40'	32.0 SF	10
ACCESS VENT CAN BE USED IN PLACE OF A TYPICAL VENT AS NECESSARY		

SAMPLE VENTILATION FORMULA (24X40)

BUILDING SQUARE FOOTAGE: 24' X 40' 960 SF

REQUIRED VENTILATION: 1 SF / 150 SF (ALLOWED BY CODE)
960 SF / 150 SF = 6.4 SF "NET" VENTILATION REQUIRED

NUMBER OF ACCESS VENTS TO BE USED: 1
TOTAL VENTILATION: (1) TYP VENT X 4.8 = 4.8 SF

NUMBER OF TYP VENTS TO BE USED:
TOTAL VENTILATION: (1) TYP VENT X 3.2 = 3.2 SF

OVERALL VENTILATION:
4.8 X 3.2 = 8.0 SF

6.4 SF ≥ 6.4 SF VENTILATION REQUIREMENT = OK

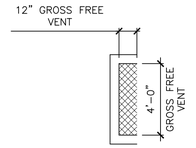
REBAR SCHEDULE		
FLOOR LOAD	PLYWOOD FLOOR	CONCRETE FLOOR
50	4	4
50+15	4	4
100	4	5
125	5	6
FOR INTERIOR PADS @ MODLINE AND ADJACENT BUILDINGS (#5 REBAR EACH WAY)		

FLUSH TO GRADE FOUNDATION									
	FLOOR LIVE LOAD PSF	PLYWOOD FLOOR				CONCRETE FLOOR			
		50	50+15	100	125	50	50+15	100	125
A	STEM WALL	8"(W)	8"(W)	8"(W)	8"(W)	8"(W)	8"(W)	8"(W)	8"(W)
B	SIDE WALL FOOTING	14"(W)	15"(W)	16"(W)	16"(W)	14"(W)	15"(W)	16"(W)	16"(W)
C	END WALL FOOTING	22"(W)	22"(W)	22"(W)	24"(W)	25"(W)	27"(W)	27"(W)	29"(W)
D	INTERIOR PAD FOOTING x12" DEEP	3'-4" SQ	4'-0" SQ	4'-0" SQ	5'-6" SQ	4'-2" SQ	4'-5" SQ	5'-0" SQ	5'-5" SQ
E	ADJACENT PAD FOOTING x12" DEEP	4'-0" SQ	4'-3" SQ	4'-3" SQ	5'-6" SQ	4'-9" SQ	4'-9" SQ	5'-3" SQ	5'-9" SQ
F	ADJACENT PAD FOOTING SPACING	13'-4"	13'-4"	10'-0"	10'-0"	13'-4"	13'-4"	10'-0"	10'-0"

TOTAL FOUNDATION FOS TO FOS	
G	24'x40'	24'-2"
	36'x40'	36'-2 1/4"
	48'x40'	48'-2 1/2"
	60'x40'	60'-2 3/4"
	72'x40'	72'-3"
	84'x40'	84'-3 1/4"
	96'x40'	96'-3 1/2"
	108'x40'	108'-3 3/4"
	120'x40'	120'-4"

KEY NOTES

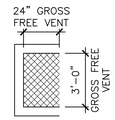
1. ANCHOR PLATE AT CORNERS AND MODLINES
2. ANCHOR PLATE AT PIERS – SEE #6/F0.0
3. NOT USED
4. ANCHOR PLATES REQUIRED AT RETURN STEMWALL FOOTING AND/OR BLDG SEP STEMWALL FOOTING TYP



TYPICAL VENT

VENT: 48"x12" PROVIDES
4.0 SF GROSS VENTILATION
3.2 SF NET VENTILATION

3 F0.0 4 F0.0



TYPICAL ACCESS VENT

ACCESS VENT: 36"x24" PROVIDES
6.0 SF GROSS FREE VENTILATION
4.8 SF NET FREE VENTILATION

3 F0.0 4 F0.0

TYPICAL VENT & ACCESS VENT DETAILS

GENERAL NOTES

1. THE LOCATION OF VENTS SHOWN HERE IS FOR REFERENCE ONLY AS THE LOCATIONS OF VENTS WILL VARY FROM JOB TO JOB. THE OPENINGS SHALL BE LOCATED AS CLOSE TO THE CORNER AS PRACTICAL AND SHALL PROVIDE CROSS VENTILATION. THE OPENINGS SHALL BE EQUALLY DISTRIBUTED ALONG THE LENGTH OF AT LEAST (2) OPPOSITE ENDS
2. UNDER FLOOR VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
3. PER SECTION 1202.4.1.2, THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED
4. DRAINAGE SHALL BE PROVIDED TO PREVENT WATER PONDING BENEATH BUILDINGS. IF THE BUILDING IS PLACED ON RAISED WOOD FOUNDATIONS, SUCH AS WOOD SLEEPERS PLACED ON GROUND OR ASPHALT THAT IS PLANAR (I.E., NOT LOWERED BELOW ADJACENT GRADE), SLOPED DRAINAGE IS NOT REQUIRED WAY FROM THE BUILDING IF THERE IS ADEQUATE SLOPE AT THE SITE TO PREVENT WATER FROM PONDING BENEATH AND IMMEDIATELY ADJACENT TO BUILDINGS. FOR OTHER CONDITIONS, SUCH AS LOWERED BASIN UNDER BUILDING OR CONCRETE FOUNDATIONS, SLOPED DRAINAGE SHALL BE PROVIDED AWAY FROM THE BUILDING IN ACCORDANCE WITH CBC SECTION 1804A.4. REFER TO APPENDIX A FOR ADDITIONAL INFORMATION.
5. DESIGN USES AN ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS PER CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTIVE BARRIER ON WALLS DOWN TO TOP OF FOUNDATION WALL, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES ALONG THE ADJACENT EXTERIOR GRADE, AS WELL AS PROTECTION AGAINST STEEL DETERIORATION PER CBC SECTION 2203A.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

SHEET TITLE:

FLUSH TO GRADE CONCRETE FOUNDATION PLAN

REFER TO F3.1-PS, F3.2-PS, F3.3-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN I. OKADA No. S 4437 12/31/25 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

F3.1

GENERAL NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
11. PROVIDE INSPECTIONS, TESTS AND REPORTS IN ACCORDANCE WITH CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1.
12. IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM:
    A. INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER TITLE 24, PART 2, SECTION 1705A.2.
    B. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, PART 2, SECTION 1705A.3
13. ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY TITLE 24, PART 1, CHAPTER 4, GROUP 1
14. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE – DO NOT SCALE PLANS OR DETAILS
15. WHEN MODULE IS RELOCATED – DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES

WOOD:

1. STRUCTURAL FRAMING SHALL BE HEM FIR – LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
   ALL FRAMING EXCEPT AS NOTED HEM FIR #2
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1–09. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4'x8' PANELS, MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
3. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD AND 2018 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE–TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE–DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2018 NDS.
5. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
7. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
8. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE–BORED TO 3/4 OF THE NAIL DIAMETER.
9. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.2. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2018 NDS. (SEE NAIL EQUIVALENCE BELOW.)
10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO)
    6d EQUALS .113"ø – PROVIDE 1.36" MIN POINT PENETRATION
    8d EQUALS .131"ø – PROVIDE *1.57" MIN POINT PENETRATION
    10d EQUALS .148"ø – PROVIDE *1.78" MIN POINT PENETRATION
    16d EQUALS .162"ø – PROVIDE *1.94" MIN POINT PENETRATION
    * 1 1/2" AT 2x MEMBERS
11. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT–FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
12. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED. A QUALITY CONTROL STAMP IS NOT REQUIRED FOR STRUCTURAL MEMBERS BELOW THE SUB FLOOR THAT ARE NOT PART OF THE FOUNDATION
13. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC, HILTI FASTENING SYSTEMS – OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
15. FASTENERS FOR PRESSURE–PRESERVATIVE TREATED AND FIRE–RETARDANT TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.6 OF CBC
16. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.6.1 OF CBC

CONCRETE:

1. CONCRETE MIX SHALL CONSIST OF TYPE V CEMENT WITH A MINIMUM STRENGTH OF 4500 PSI AND MAXIMUM WATER/CEMENT RATIO OF 0.45. (EXCLUDES EXPOSURE CLASS F3, AND C2) TESTING SHALL BE IN ACCORDANCE WITH CBC (CCR TITLE 24, PART 2) SECTION 1905A.1.17 AND ACI 318 SECTION 26.12. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, OR NOT LESS THAN ONCE FOR EACH 50 CUBIC YARDS (38.3 m^3) OF CONCRETE, OR NOT LESS THAN 2000 SQUARE FEET (186 m^2) OF SURFACE AREA FOR SLABS OR WALLS. ADDITIONAL SAMPLES FOR SEVEN–DAY COMPRESSIVE STRENGTH TESTS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE AT THE BEGINING OF THE CONCRETE WORK OR WHENEVER THE MIX OR AGGREGATE IS CHANGED.
2. **CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING, DEICING CHEMICALS OR OTHER EXPOSURE CONDITIONS SHALL AIRED ENTRAINED PER ACI 318 SECTION 19.3.3.1**
3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318, 2019 EDITION, OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED OTHERWISE ON THESE DRAWINGS.
4. AGGREGATE SHALL CONFORM TO ASTM C33 FOR NORMAL CONCRETE WEIGHT AND C330 FOR LIGHT WEIGHT CONCRETE AND CBC SECTION 1903A.
5. CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II
6. REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.
7. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
8. WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE CBC AND THE REINFORCING STEEL WELDING CODE, AWS D1.4, LATEST REVISION, OF THE AMERICAN WELDING SOCIETY. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. REINFORCING WITH C.E. ABOVE .75 SHALL NOT BE WELDED. ARCHITECT SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION PER SECTION 1705A.3 AND TABLE 1705A.2.1, TITLE 24, PART 2. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
9. COVERAGE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC AND ACI STANDARD 318 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
10. LAP SPLICES FOR REINFORCING BARS SHALL BE 72 BAR DIAMETERS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL OR SLOPING REINFORCING BARS A MINIMUM OF THE REQUIRED SPLICE LENGTH. HOOKS AND BENDS SHALL BE ACI 318–19 CHP 25 UNLESS SHOWN OTHERWISE. WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 INCHES OR TWO CROSS WIRES, WHICHEVER IS GREATER.
11. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 AND ACI STANDARD 304. ALSO COMPLY WITH REQUIREMENTS OF ACI 318–19 CHAPTER 26
12. ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR TO BEGINNING CONCRETE PLACEMENT.
13. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. CONSTRUCTION JOINTS SHALL COMPLY WITH ACI 318–19 CHAPTER 26.4. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND DSA.
14. PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION.
15. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1904.2 AND ACI 318–19 SECTION 26.4, A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN CONCRETE MIX DESIGN SHALL SELECT THE RELATIVE AMOUNTS OF INGREDIENTS TO BE USED AS BASIC PROPORTIONS OF THE CONCRETE MIXES PROPOSED FOR USE UNDER THIS PROVISION AND TESTING SHALL BE PERFORMED IN A LABORATORY ACCEPTABLE TO THE ENFORCEMENT AGENCY. ALL GROUT SHALL BE NONMETALLIC NON–SHRINK HIGH STRENGTH GROUT BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE ARCHITECT. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
16. REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.
17. OWNER SHALL PROVIDE INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24 FOR THE PLACEMENT OF CONCRETE AND CONCRETE REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE AND FOR SAMPLING CONCRETE. OWNER'S INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
18. ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1910A. A PLACING RECORD SHALL BE MAINTAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE.
19. BATCH PLANT INSPECTION, CEMENT AND REINFORCING TESTS ARE NOT REQUIRED. FOR SINGLE–STORY LIGHT FRAMED BUILDINGS AND ISOLATED FOUNDATIONS SUPPORTING EQUIPMENT ONLY, WHERE THE SPECIFIED COMPRESSIVE STRENGTH f'c OF THE CONCRETE DELIVERED TO THE JOBSITE IS 3,500 PSI (24.13 MPa) AND WHERE THE f'c USED IN THE DESIGN IS NOT GREATER THAN 3,000 PSI (20.68 MPa). THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY:
    1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.
    2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A BATCH 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 THERON. 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, ITS 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.
    COMPLY WITH ALL REQUIREMENTS OF TITLE 24, PART 2, SECTIONS 1705A.3.3.
20. ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
21. MAX CONC SLUMP TO BE 4"±1"

CONCRETE FOUNDATION:

1. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
2. CONCRETE FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF PER TITLE 24, TABLE 1806A.2.
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. FOUNDATIONS ARE DESIGNED AS PERMANENT FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A.
   A. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS. SEE COVER SHEET FOR MINIMUM SEPARATION REQUIRED

STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. NOT USED
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1, 2020 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC–ARC OR FLUX–CORED PROCESS COMPLYING WITH AWS.
5. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CBC 2212A AND AISC 360–16 OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
6. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH–UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A–123.
7. PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1705A.2. ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2202A.
8. WELDING SHOULD BE IN ACCORDANCE WITH CCR TITLE 24. PART 2, SECTION 1703A2.5
9. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE– RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V–NOTCH TOUGHNESS OF 20 ft–lbs AT 0 DEGREES F, AS REQ. BY SEC. 2212A.2.3
10. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2020 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WEDLING CODE AWS D1.1
11. MATERIALS:

ROLLED STRUCTURAL STEEL SHAPES	ASTM A–992, GRADE 50
ANGLES, MISC STEEL	ASTM A36
MISCELLANEOUS PLATES	ASTM A–572 GRADE 50
STRUCTURAL STEEL PIPES	ASTM A53 TYPE E OR S, GRADE B
WELDING ELECTRODES	AWS STRUCTURAL STEEL E70XX, REINFORCING STEEL E90XX
ANCHOR BOLTS	ASTM F–1554 GRADE 36
TYPICAL STEEL CONNECTION BOLTS	ASTM A–307
MISCELLANEOUS BOLTS	ASTM A–307
GALVANZING	ASTM A–123
RUSH–INHIBITING PRIMER	TT–P–645 ASTM
STEEL TUBING	ASTM A–500 GRADE B (Fy = 46 KSI)

12. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
13. BURNING OF HOLES IS NOT ALLOWED
14. INSPECTION OF WELDING SHALL CONFORM TO CBC REQUIREMENTS (CHAPTER 17A)
15. THE STRUCUTRAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
16. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

PAD FOUNDATIONS: (RESTRAINED)

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW
2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 16–1
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
7. FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN ACCORDANCE WITH IR 16–1, SUBSTANDARD FOUNDATIONS
   a. ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1"ø HOT DIPPED GALVANIZED STANDARD WEIGHT STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT A MAXIMUM SPACING OF 10'–0" OC AT SIDEWALLS AND 2'–0" FROM EACH CORNER IN BOTH DIRECTIONS
   b. STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION
   c. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 4 1/2" MINIMUM
8. FINISH GRADES SHALL BE WITHIN MAX 18" BELOW BOTTOM OF FLOOR JOISTS WITHOUT EXCEPTION
9. THE TIE PLATE WHICH ATTACHES THE FLOOR BEAM TO THE WOOD FOUNDATION AND THAT IS EXPOSED TO THE WEATHER IS TO BE GALVANIZED. TEK SCREWS THAT ATTACH THE TIE PLATE TO THE FLOOR BEAM ARE TO BE HOT–DIPPED GALVANIZED. ANCHOR BOLTS AND MECHANICAL EXPANSION ANCHORS WHICH ARE EXPOSED TO THE WEATHER ARE TO BE PAINTED WITH ZINC–BASED PAINT.
10. WOOD SILL PLATES IN CONTACT WITH GRADE SHALL BE PRESERVATIVE TREATED.
11. NAILS USED FOR ATTACHMENT OF PRESERVATIVE TREATED SILL PLATES SHALL BE OF HOT DIPPED ZINC–COATED GALVANIZED ZINC–COATED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR HOT–DIPPED ZINC–COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM B695, CLASS55 MINIMUM. (CBC SECTION 2304.10.6.1)

ACCEPTABLE FASTENERS / ICC REPORTS:

SHOT PIN THROUGH LIGHTWEIGHT CONCRETE: ICC REPORT #ESR–2269. ALTERNATE SHOT PIN #ESR–1752
SHOT PIN THROUGH LIGHT GAUGE STEEL: ICC REPORT #ESR–2269
WOOD/METAL JAMB STUDS TO STEEL COLUMN: ICC REPORT #ESR–2269

SELF–TAPPING SCREWS	SECT 3.2.12 ASTM C1513
SELF–DRILLING SCREWS	SECT 3.2.9 ASTM C1513
SELF–PIERCING SCREWS	SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD–FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S240 AND CBC SECTIONS 2211A.1.1 THOUGH 2211A.1.3, NORTH AMERICAN STANDARD FOR COLD–FORMED STEEL FRAMING–LATERAL DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING – THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE–QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL–OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

MACHINE APPLIED NAILING:

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWWOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

COLD FORMED STRUCTURAL STEEL:

1. ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST AISI SPECIFICATIONS
2. ALL GALVANIZED STUDS, TRACKS, AND OR JOISTS 12, 14, AND 16 GAUGE SHALL CONFORM TO ASTM A653, SS GRADE 50 (Fy = 50 KSI) AND ASTM A653, SS GRADE 33 (Fy = 33 KSI) FOR 18 AND 20 GAUGE UNO
3. CORROSION PROTECT PER TABLE A4–1 BELOW
4. GALVANIZED COATINGS MUST MEET ASTM A–525 SPECIFICATIONS
5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A–1011 GRADE 40 KSI FOR 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UON. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS LATEST EDITION (AISI S100–16).
7. METAL STUDS AND OR JOIST:
   A. FOR METAL STUD WALLS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STANDARD PUNCHED STEEL MEMBERS OF THE GAUGES SHOWN ON THE DRAWINGS.
   B. USE ONLY ONE TYPE THROUGHOUT THE WORK, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER
8. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED
9. FASTENINGS OF COMPONENTS SHALL BE WITH SELF–DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC–RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
10. ALL METAL STUDS SHALL BE BY SSMA APPROVED SUPPLIED, ICC ERS–3064P. ALTERNATE METAL STUDS MUST BE OF EQUAL OR GREATER SECTIONS PROPERTIES AND SHALL BE APPROVED BY THE ENGINEER
11. PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
12. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
13. FULL–HEIGHT DOUBLE STUDS SHALL BE PROVIDED AT THE ENDS OF PARTITIONS, AT ALL WALL OPENINGS, AND AT OTHER LOCATIONS SHOWN ON THE PLANS
14. BRIDGING SHALL BE COLD FORMED CHANNEL, MINIMUM 1–1/2" DEEP WITH 9/16" FLANGE SPACED AT 4'–0" ON CENTER MAXIMUM VERTICALLY. DOUBLE UP STUDS AT ALL DOO

GENERAL NOTES

STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) STEEL STUD FORMAT CONVERSION CHART	
ORDINARY FORMAT	SSMA FORMAT
C-3 5/8" X 1 1/2" X 20 GA (TRACK) C-3 5/8" X 1 5/8" X 20 GA (STUD)	362T150-33 (TRACK) 362S162-33 (STUD)
C-3 5/8" X 1 1/2" X 18 GA (TRACK) C-3 5/8" X 1 5/8" X 18 GA (STUD)	362T150-43 (TRACK) 362S162-43 (STUD)
C-3 5/8" X 1 1/2" X 16 GA (TRACK) C-3 5/8" X 1 5/8" X 16 GA (STUD)	362T150-54 (TRACK) 362S162-54 (STUD)
C-4" X 1 1/2" X 20 GA (TRACK) C-4" X 1 5/8" X 20 GA (STUD)	400T150-33 (TRACK) 400S162-33 (STUD)
C-4" X 1 1/2" X 18 GA (TRACK) C-4" X 1 5/8" X 18 GA (STUD)	400T150-43 (TRACK) 400S162-43 (STUD)
C-4" X 1 1/2" X 16 GA (TRACK) C-4" X 1 5/8" X 16 GA (STUD)	400T150-54 (TRACK) 400S162-54 (STUD)
C-5 1/2" X 1 1/2" X 20 GA (TRACK) C-5 1/2" X 1 5/8" X 20 GA (STUD)	550T150-33 (TRACK) 550S162-33 (STUD)
C-5 1/2" X 1 1/2" X 18 GA (TRACK) C-5 1/2" X 1 5/8" X 18 GA (STUD)	550T150-43 (TRACK) 550S162-43 (STUD)
C-5 1/2" X 1 1/2" X 16 GA (TRACK) C-5 1/2" X 1 5/8" X 16 GA (STUD)	550T150-54 (TRACK) 550S162-54 (STUD)
C-6" X 1 1/2" X 20 GA (TRACK) C-6" X 1 5/8" X 20 GA (STUD)	600T150-33 (TRACK) 600S162-33 (STUD)
C-6" X 1 1/2" X 18 GA (TRACK) C-6" X 1 5/8" X 18 GA (STUD)	600T150-43 (TRACK) 600S162-43 (STUD)
C-6" X 1 1/2" X 16 GA (TRACK) C-6" X 1 5/8" X 16 GA (STUD)	600T150-54 (TRACK) 600S162-54 (STUD)
C-8" X 1 1/2" X 20 GA (TRACK) C-8" X 1 5/8" X 20 GA (STUD)	800T150-33 (TRACK) 800S162-33 (STUD)
C-8" X 1 1/2" X 18 GA (TRACK) C-8" X 1 5/8" X 18 GA (STUD)	800T150-43 (TRACK) 800S162-43 (STUD)
C-8" X 1 1/2" X 16 GA (TRACK) C-8" X 1 5/8" X 16 GA (STUD)	800T150-54 (TRACK) 800S162-54 (STUD)

STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MIL THICKNESS FORMAT CONVERSION CHART		
GUAGE FORMAT	DESIGN THICKNESS	MILS
25	0.0188	18
22	0.0283	27
20	0.0346	33
18	0.0451	43
16	0.0566	54
14	0.0713	68
12	0.1017	97
10	0.1242	118

AMERICAN INSITUTE OF STEEL CONSTRUCTION (AISC) HOT ROLLED MEMBER FORMAT CONVERSION CHART	
ORDINARY FORMAT	AISC FORMAT
C-6" X 8.2 LB	C 6x8.2
C-7" X 9.8 LB	C 7x9.8
C-10" X 15.3 LB	C 10x15.3
L-1 1/2" X 1 1/2" X 3/16"	L 1-1/2x1-1/2x3/16
L-2" X 2" X 3/16"	L 2x2x3/16
L-3" X 3" X 3/8"	L 3x3x3/8
L-5" X 3" X 3/8"	L 5x3x3/8

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

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PROJECT NAME:

SHEET TITLE:

STRUCTURAL NOTES AND SPECIFICATIONS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN I. OMER No. S 4437 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

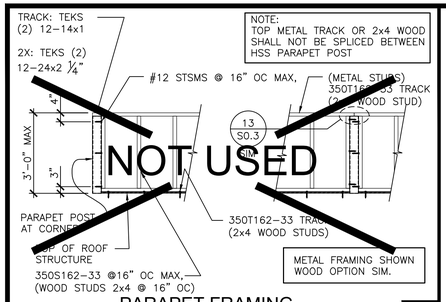
ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

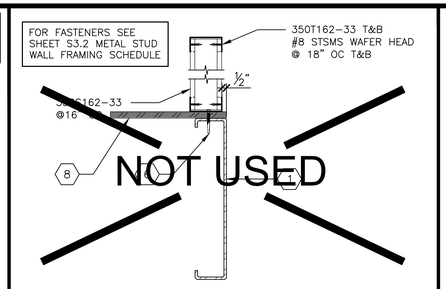
S0.0b



PARAPET FRAMING

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

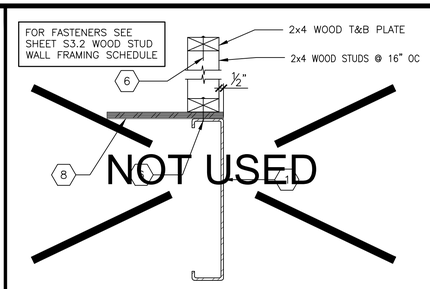
13



PARAPET SECTION (METAL STUDS)

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

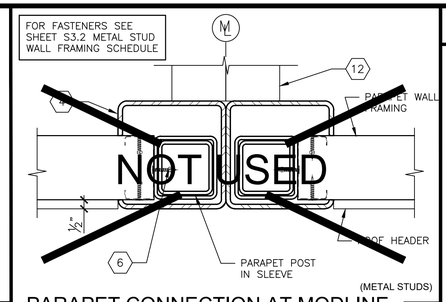
8A



PARAPET SECTION (WOOD STUDS)

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

8



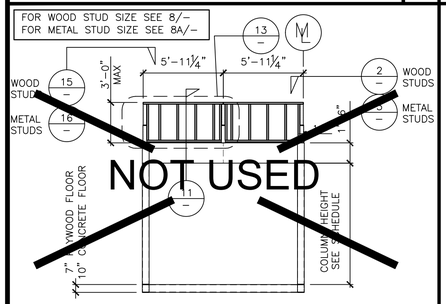
PARAPET CONNECTION AT MODLINE

SCALE: 3"=1'-0"

3

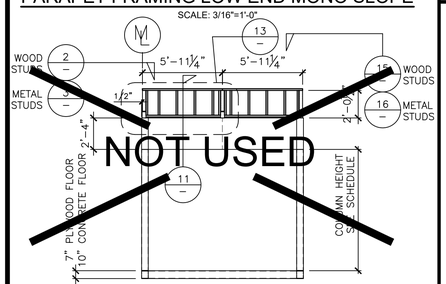
KEY NOTES

1. ROOF HEADER/BEAM (SEE ROOF STRUCTURAL FRAMING PLAN)
2. BEAM SPLICE SEE S0.1 OR S0.2 FOR LOCATIONS AND DETAILS
3. COLUMN (SEE HSS COLUMN SCHEDULE THIS SHEET)
4. STUB COLUMN (SAME SIZE AND THICKNESS AS COLUMN)
5. 1/4" STIFFENER PLATE AT EACH ROOF PURLIN
6. HILTI X-U 15 0.145ø SHOT PIN @ 16" MAX OC ALT #12 STS @ 16" MAX TO PARAPET POST
7. PERIMETER FLOOR BEAM (SEE STRUCTURAL FLOOR FRAMING SHEETS)
8. ¾" PLYWOOD ROOF SHEATHING (SEE ROOF FRAMING PLAN)
9. HSS 3.5 X 3.5 X 3/16" SLEEVE. SPACED 6' O.C. (SEE DETAIL #11 & 12)
10. HSS 3" X 3" X 3/16" POST. (PARAPET MAX HEIGHT 3'-0" SEE DETAIL #11 & 12)
11. NOT USED
12. TRUSS TOP L ANGLE
13. L- 1-1/2" X 1-1/2" X 3/16" BRACE AT PARAPET POST AND PER ROOF FRAMING PLAN
14. ROOF PURLIN
15. 3/4" X 5" X 1/4" PLATE TO TOP OF HEADER/SIDEWALL BEAM



PARAPET FRAMING LOW END MONO SCHEDULE

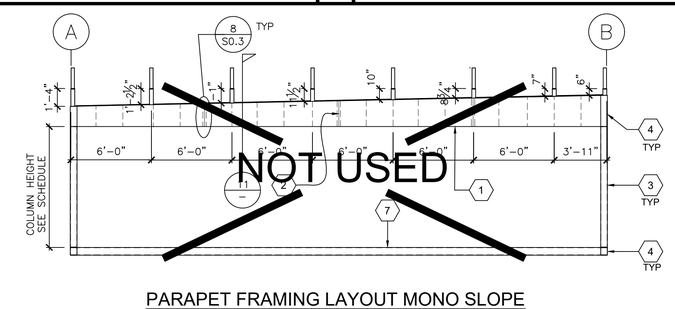
SCALE: 3/16"=1'-0"



PARAPET FRAMING HIGH END MONO SLOPE

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

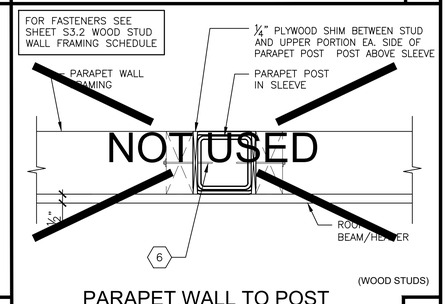
14



PARAPET FRAMING LAYOUT MONO SLOPE

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

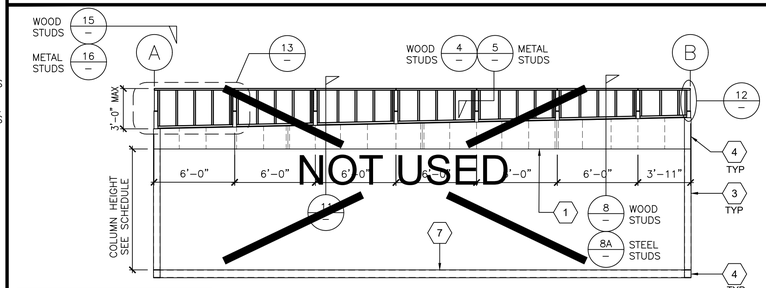
9



PARAPET WALL TO POST

SCALE: 3"=1'-0"

4

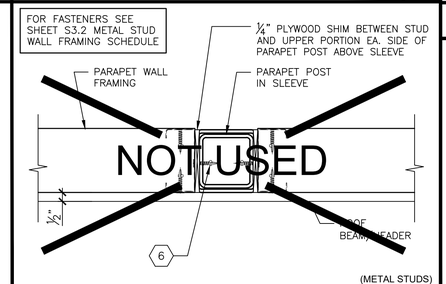


FOR WOOD STUD SIZE SEE 8/-
FOR METAL STUD SIZE SEE 8A/-

PARAPET FRAMING LAYOUT MONO SLOPE

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

10



PARAPET WALL TO POST

SCALE: 3"=1'-0"

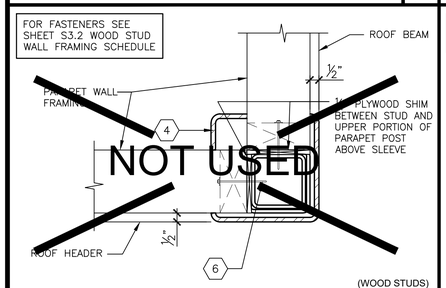
5

HSS COLUMN SCHEDULE

CEILING HEIGHT	COLUMN HEIGHT	COLUMN SIZE	PARAPET
☐ 8'-6"	9'-0"	6"X6"X1/4"	☐
☑ 9'-0"	9'-6"	6"X6"X1/4"	☐
☐ 9'-6"	10'-0"	6"X6"X1/4"	☐
☐ 10'-0"	10'-6"	6"X6"X1/4"	☐

REFERENCE: FRAME SECTION SHEETS

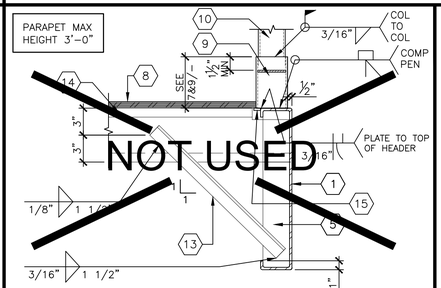
NOTE:
COLUMNS SIZES APPLY TO BUILDINGS WITH OR WITHOUT PARAPET.



PARAPET WALL AT CORNER

SCALE: 3"=1'-0"

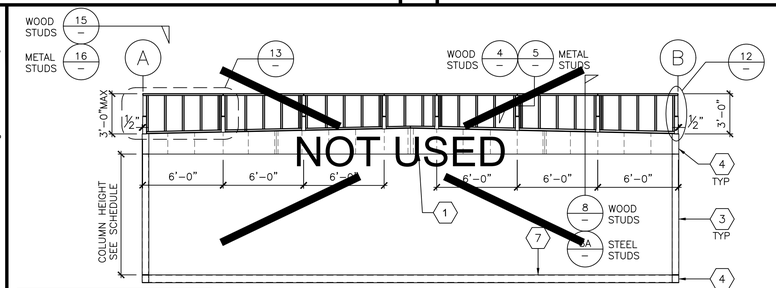
15



PARAPET COLUMN CONN AT BEAM

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

11

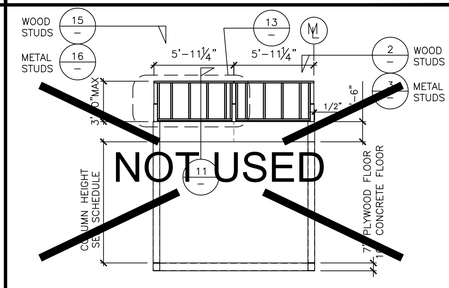


FOR WOOD STUD SIZE SEE 8/-
FOR METAL STUD SIZE SEE 8A/-

PARAPET FRAMING LAYOUT DUAL SLOPE

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

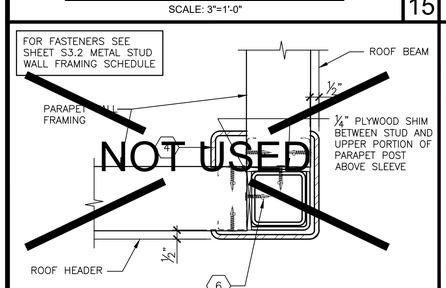
6



PARAPET FRAMING ENDWALL DUAL SLOPE

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

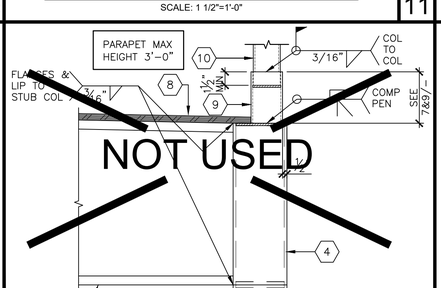
1



PARAPET WALL AT CORNER

SCALE: 3"=1'-0"

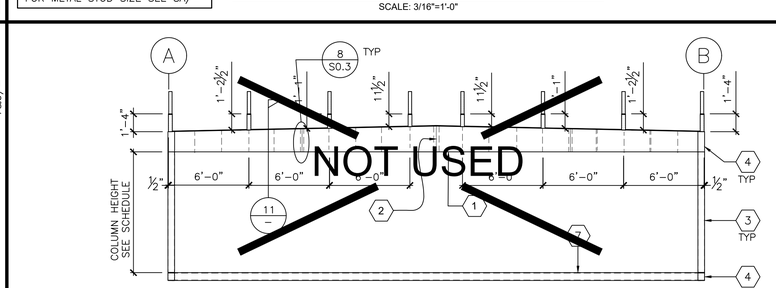
16



PARAPET COLUMN CONN

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

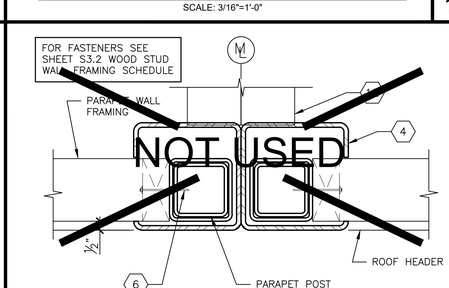
12



PARAPET FRAMING LAYOUT DUAL SLOPE

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

7



PARAPET CONNECTION AT MODLINE

SCALE: 3"=1'-0"

2

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

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CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON
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PROJECT NAME:

SHEET TITLE:

BUILDING SECTIONS,
PARAPET FRAMING AND DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMEARA
No. S 4437
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
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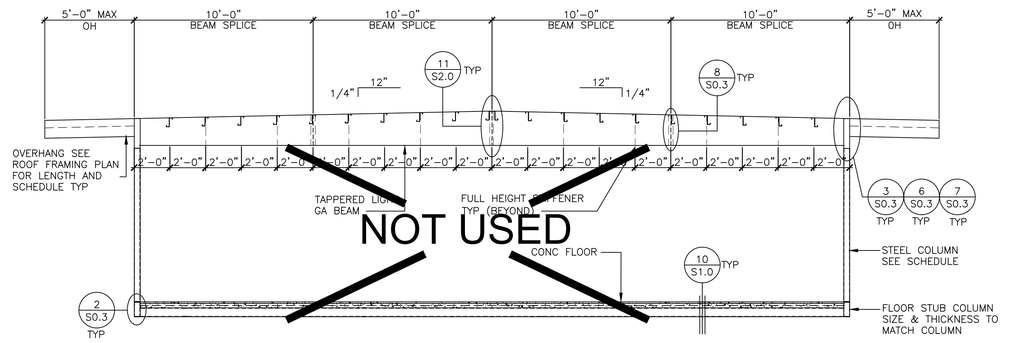
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

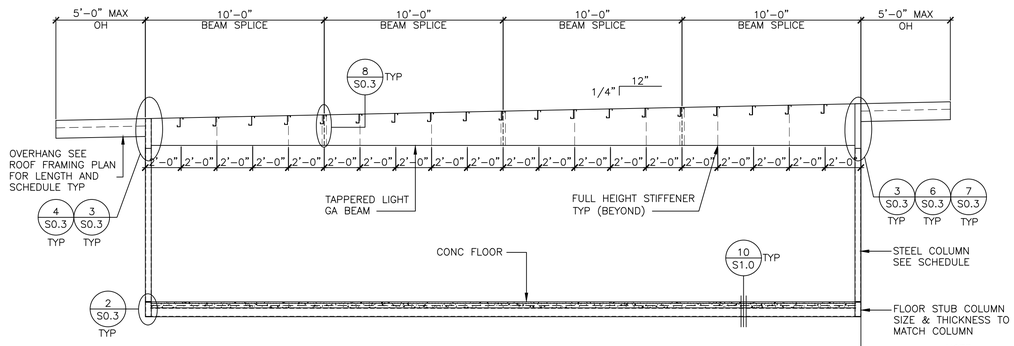
SHEET NUMBER

S0.1P



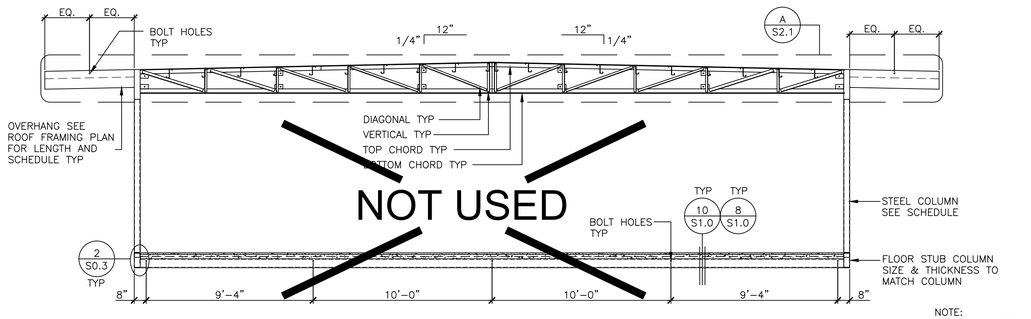
NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

DUAL SLOPE SIDEWALL SECTION



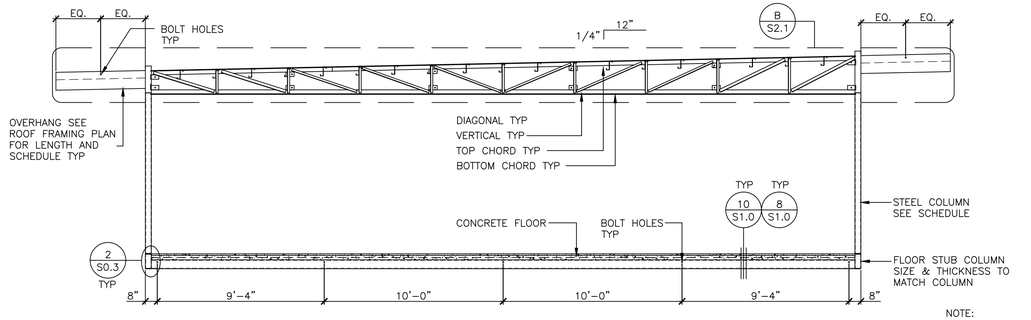
NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

MONO SLOPE SIDEWALL SECTION



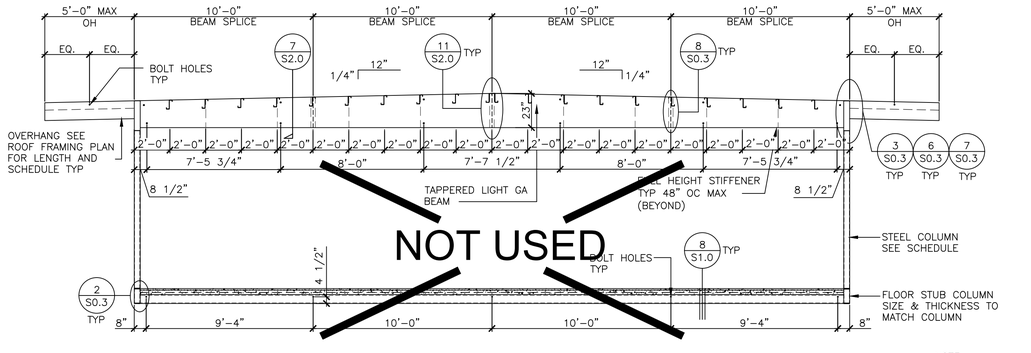
NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

DUAL SLOPE MODLINE SECTION



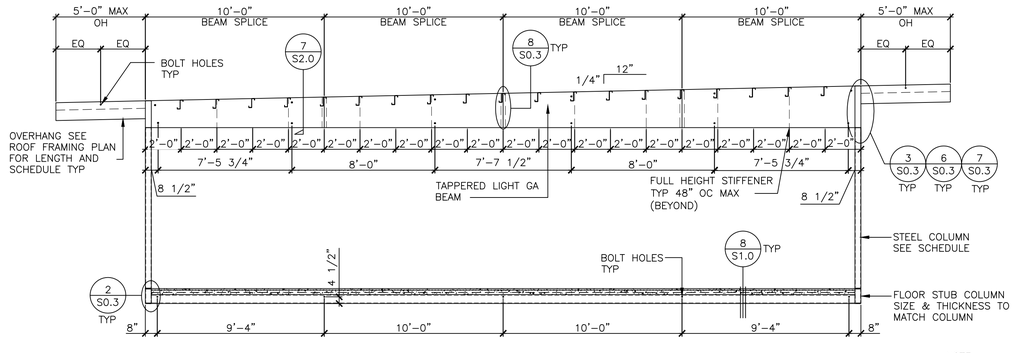
NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

MONO SLOPE MODLINE SECTION



NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

ALTERNATE DUAL SLOPE MODLINE SECTION



NOTE: FLOOR AND ROOF JOIST NOT SHOWN FOR CLARITY

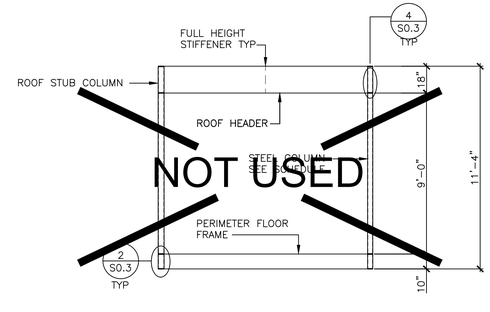
ALTERNATE MONO SLOPE MODLINE SECTION

CEILING HEIGHT	COLUMN HEIGHT	COLUMN SIZE
8'-6"	9'-0"	4"X4"X7/8"
REFERENCE: FRAME SECTION SHEETS		

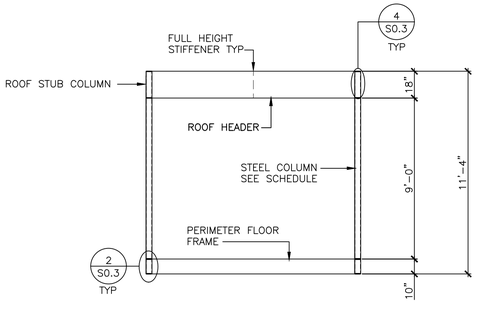
(NOTE: THE STEEL POST HEIGHT IS FROM TOP OF FLOOR SLAB TO BTM OF SIDEWALL BEAM/HEADER)

NOT USED

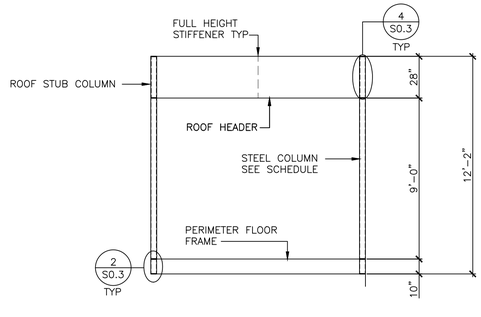
HSS COLUMN SCHEDULE



DUAL SLOPE ENDWALL SECTION



MONO SLOPE ENDWALL SECTION (LOW END)



MONO SLOPE ENDWALL SECTION (HIGH END)

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PROJECT NAME:

SHEET TITLE:

BUILDING SECTIONS
CONCRETE FLOOR

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023
A SEPARATE PROJE... N IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
REN: 12/31/25
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
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4 -

PROJECT NO.:	00-0000
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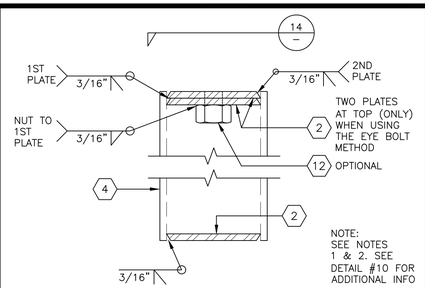
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

S0.2

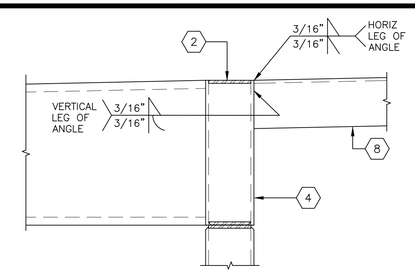
16



ROOF STUB COLUMN PROFILE

SCALE: NTS

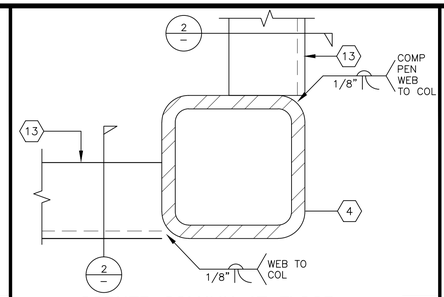
11



"L" JOIST/OUTRIGGER OVERHANG CONNECTION DETAIL

SCALE: NTS

6

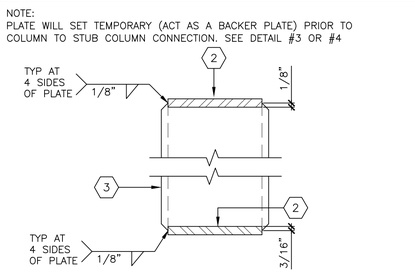


CORNER COLUMN AT FLOOR

SCALE: 6" = 1'-0"

1

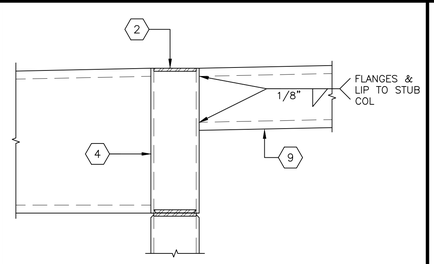
17



CORNER COLUMN PROFILE

SCALE: NTS

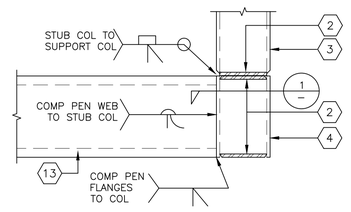
12



"C" CHANNEL OVERHANG CONNECTION DETAIL

SCALE: NTS

7

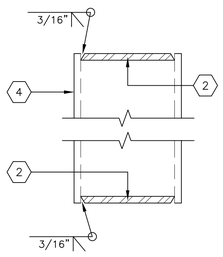


POST CONNECTION AT FLOOR

SCALE: 3" = 1'-0"

2

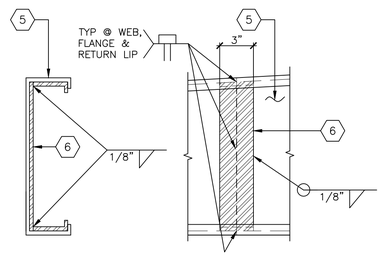
18



FLOOR STUB COLUMN PROFILE

SCALE: NTS

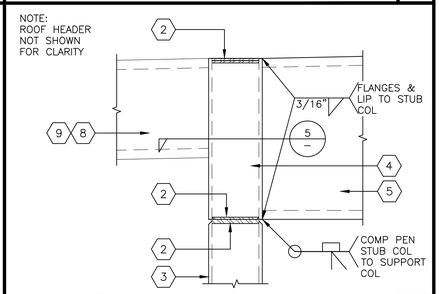
13



TYPICAL BEAM SPLICE

SCALE: NTS

8

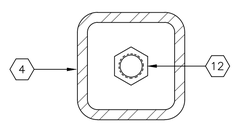


POST CONNECTION AT ROOF

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

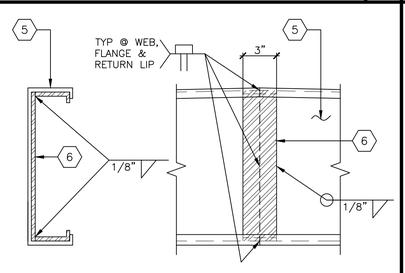
3

14



TOP VIEW AT ROOF STUB COLUMN

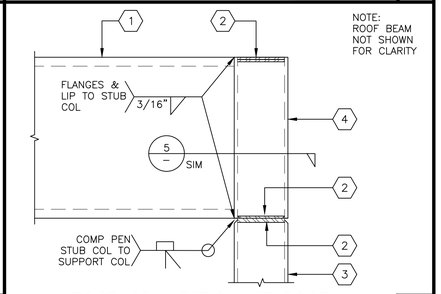
SCALE: NTS



TYPICAL BEAM SPLICE (AT RIDGE)

SCALE: NTS

9

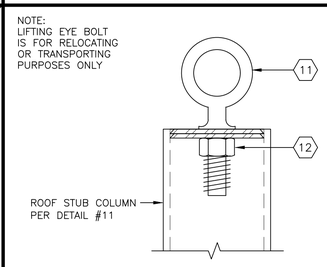


POST CONNECTION AT ROOF

SCALE: NTS

4

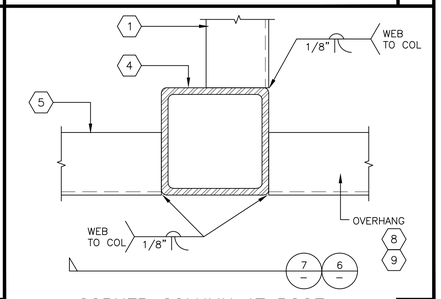
15



LIFTING EYE BOLT

SCALE: NTS

10



CORNER COLUMN AT ROOF

SCALE: NTS

5

KEY NOTES

1. ROOF HEADER/BEAM (SEE STRUCTURAL ROOF FRAMING PLAN)
2. PLATE FITTED INSIDE COLUMN AND WELD IN PLACE. THICKNESS OF PLATE TO MATCH THE THICKNESS OF COLUMN MIN 3/8" THICK.
3. COLUMN (SEE DETAIL #12)
4. STUB COLUMN, SAME SIZE AND THICKNESS AS COLUMN SEE DETAIL #11 (FOR ROOF) AND DETAIL #13 (FLOOR)
5. TAPERED ROOF BEAM (SEE STRUCTURAL ROOF FRAMING PLAN)
6. 10 GA BACK-UP PLATE FOR BEAM SPLICE
7. NOT USED
8. OVERHANG ANGLE MEMBER (SEE DETAIL 6)
9. OVERHANG C-CHANNEL MEMBER (SEE DETAIL 7)
10. 1/4" FULL DEPTH STIFFENER INSIDE SPLICE LOCATIONS AT ROOF BEAM
11. 1"ø LIFTING EYE BOLT
12. LIFTING EYE BOLT NUT
13. FLOOR BEAM (SEE STRUCTURAL FLOOR FRAMING PLAN)

GENERAL NOTES

1. DRILL HOLES AT PLATES FOR THE LIFTING EYE BOLT SCREW
2. INSTALL LIFTING EYE BOLT NUT TO 1ST PLATES PRIOR TO INSTALLING THE PLATE INSIDE THE COLUMN

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TYPICAL STRUCTURAL DETAILS

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Exp. 12/31/24
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ARCHITECT OF RECORD

REVISIONS

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PROJECT NO.:	00-0000
DRAWN BY:	00
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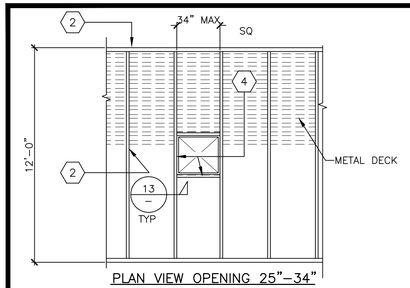
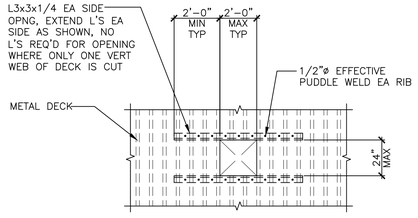
DATE:	00-00-00

SHEET NUMBER

S0.3



PLAN VIEW OPENING 25"–34"



PLAN VIEW OPENING UP TO 24"

NOTE: FRAMING TO BE FURNISHED AND INSTALLED WITH STRUCTURAL STEEL. INSTALL DECK CLOSURE ℄ AS REQUIRED WHERE OPENING OCCURS IN CONCRETE PAD ON METAL DECK.

OPENINGS IN METAL DECK

SCALE: NTS

9

NOT USED

5C

NOT USED

MINIMUM DECK CONNECTION ALL SUPPORTS:

1/2"ø EFFECTIVE ARC SPOT OR ARC SEAM (PUDDLE) WELDS AT ALL STEEL SUPPORTS. PUDDLE WELDS AT 12" OC PERPENDICULAR TO DECK FRAMING (PATTERN 36/5). 24" OC AT FRAMING PARALLEL TO DECK FRAMING. PROVIDE BUTTON PUNCH AT 24" OC @ ALL DECK SEAMS

NOTES:

1. DECK LAYOUT SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS
2. ENDS OF ADJOINING DECK SHEETS SHALL BE LAPPED 2"
3. NO SHORING IS REQUIRED FOR DECK, UNO
4. METAL B–DECK SHALL BE VERCO PLB–36 MANUFACTURING CO. PER IAMPO #ER–2018. DECK TO BE ASTM A653 SS DESIGNATION GRADE 50 MINIMUM.
5. LIGHT WEIGHT CONCRETE FLOOR SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 WWF PLACED AT MID–DEPTH OF THE FLOOR OVER THE TOP FLUTE OF THE METAL DECK. 1 1/2" X 20 GA. B–DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE FILL (2" OVER DECK FLUTES)
6. ALTERNATE ATTACHMENT OF B–DECK TO FLOOR JOIST: 'HILTI' X–ENP–19 L15 FASTENER, 9 PINS PER SHEET TO PERPENDICULAR SUPPORTS PER ICC REPORT #ESR–2197. SEE DETAIL #14
7. LIGHT WEIGHT CONCRETE FLOOR SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS
8. SEE DETAIL #14 FOR ADDITIONAL INFORMATION

KEY NOTES

1. PLYWOOD FLOOR SHEATHING
2. PERIMETER CHANNEL (SEE STRUCTURAL FLOOR FRAMING PLANS)
3. NOT USED
4. FLOOR JOIST AND/OR BLOCK (SEE STRUCTURAL FLOOR FRAMING PLANS)
5. 5/8" MACHINE BOLT. SEE SHEET S0.1 OR S0.2 FOR SPACING
6. NOT USED
7. NOT USED
8. 4"x6"x1/4" PLATE AT 7" CHANNEL SPLICE. 4"x8"x1/4" PLATE AT 10" CHANNEL SPLICE
9. INSULATION SEE SHEETS A0.10 THRU A0.18 FOR R VALUE REQUIRED SEE DETAIL 17 FOR SIMILAR ATTACHMENT U.N.O
10. METAL DECK FLOOR (SEE DETAIL 14)
11. NOT USED
12. MINIMUM 2"x2"x1/8" THICK PLATE. PLATE QUANTITY TO BE FIELD VERIFY
13. LLH 2"x3"x1/4" ANGLE SUPPORT
14. NOT USED
15. NOT USED
16. INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BI–DIRECTIONAL POLYESTER FIBERS
17. BOTTOM BOARD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APP: 02-122839 INC:
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PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING DETAILS–PLYWOOD & CONCRETE

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN I. OMER · No. S 4437 · 12/31/24 · STRUCTURAL · STATE OF CALIFORNIA

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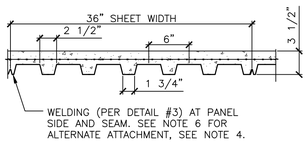
S1.0

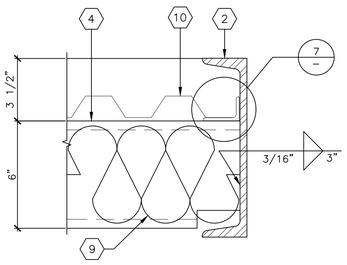
METAL FLOOR DECKING	
METAL DECK MIN SECTION PROPERTIES & DATA	
DECK DEPTH	1 1/2"
GAUGE	20
MOMENT OF INTERIA, I ($IN.^4$)	0.219
SECTION MODULUS S (+) ($IN.^3$)	0.230
S (–) ($IN.^3$)	0.237
FINISH	GALVANIZED



METAL FLOOR DECKING

SCALE: NTS

14



FLOOR JOIST TO CHANNEL (CONCRETE)

SCALE: 3" = 1'–0"

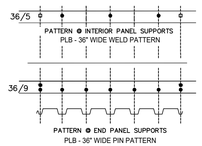
10

NOT USED

DECK FASTENING DESIGNATION KEY: A

A = ATTACHMENT PATTERN @ ALL SUPPORTS

● = ARC SPOT WELD OR MECHANICAL FASTENER ATTACHED AT INTERIOR BOTTOM FLUTE
□ = ARC SEAM WELD OR MECHANICAL FASTENER ATTACHED ADJACENT TO SIDELAP



LIGHT WEIGHT CONCRETE FLOOR NOTES

SCALE: NTS

3

FLOOR FRAME AT MODLINE (WOOD)

SCALE: 3" = 1'–0"

1

NOTE:
MAX. (2) ADJACENT WEBS CUT IF MORE THAN (2) WEBS ARE NOTCHED, SEE DETAIL #9

TYPICAL SMALL REINFORCED DECK OPENING UP TO 9" MAX

SCALE: NTS

15

NOTE:
SPLICE MAY OCCUR AT ANY POINT MIN. 18" FROM BOLT LOCATION

CHANNEL SPLICE

SCALE: 1 1/2" = 1'–0"

11

ALTERNATE MODLINE ATTACHMENT

SCALE: 1 1/2" = 1'–0"

6

NOT USED

14 & 12 GAUGE

FLOOR JOIST

SCALE: 3" = 1'–0"

4

FLOOR JOIST TO CHANNEL–WOOD

SCALE: 3" = 1'–0"

2

TYPE B DECK

IF OPENINGS ARE CLOSER OR LARGER THAN SHOWN, REINFORCE DECK – SEE DETAILS 9 OR 15/–

UNREINFORCED OPENING AT DECK

SCALE: NTS

16

JOIST TO JOIST (WOOD)

SCALE: 1 1/2" = 1'–0"

12

METAL DECK SUPPORT ANGLE ATTACHMENT

SCALE: 1 1/2"" = 1'–0"

7

NOTE:
ACTUAL FLOOR SYSTEM NOT SHOWN FOR CLARITY. DETAIL APPLICABLE FOR BOTH PLYWOOD AND CONCRETE FLOOR SYSTEMS FOR ENERGY CODE COMPLIANCE FOR ALL CLIMATE ZONES.

INSULATION AT FLOOR

SCALE: 1 1/2" = 1'–0"

17

JOIST TO JOIST (CONCRETE)

SCALE: 1 1/2" = 1'–0"

13

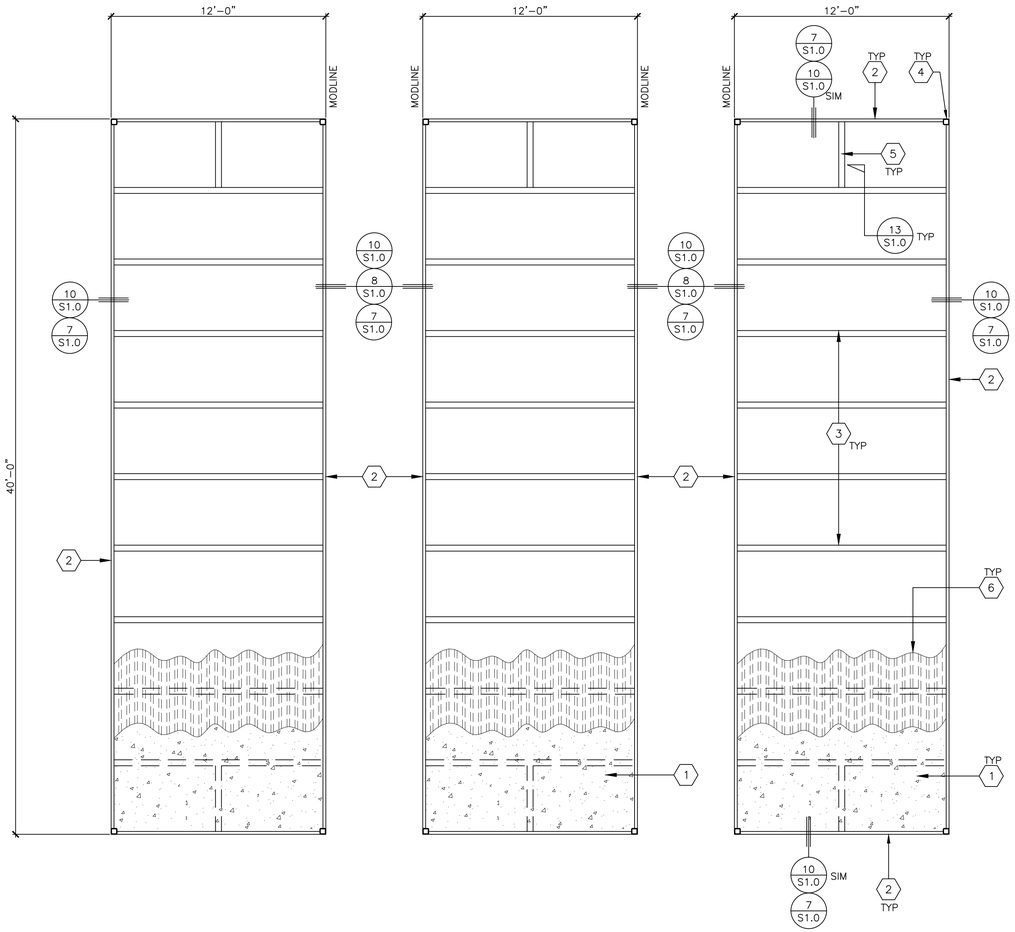
FLOOR FRAME AT MODLINE (CONCRETE)

SCALE: 3" = 1'–0"

8

NOT USED

NOT USED



FLOOR FRAMING PLAN

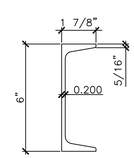
SCALE: 1/4" = 1'-0"

KEY NOTES

1. LIGHT WEIGHT CONCRETE FILL OVER METAL FLOOR DECK (SEE 14/S1.0)
2. C-10" X 15.3 LB CHANNEL AT PERIMETER FRAME
3. C-CHANNEL (FLOOR JOIST ARE SHOWN AT 48" OC AS AN EXAMPLE ONLY, SEE SCHEDULE FOR SPACING)
4. STEEL STUB CORNER COLUMN
5. C-6" X 8.2 LB CHANNEL AT MID SPAN
6. METAL FLOOR DECKING (SEE 14/S1.0)

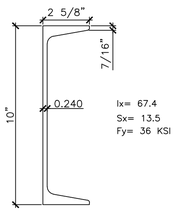
FLOOR JOIST SCHEDULE		
FLOOR LOAD	FLOOR JOIST	SPACING
~~50~~	~~C6x8.2~~	~~60" OC~~
50+15	C6x8.2	48" OC
~~100~~	~~C6x8.2~~	~~36" OC MAX.~~
125	C6x8.2	34" OC MAX.

NOTE: FLOOR SPACING CAN BE EQUALLY SPACED.



Ix= 13.1
Sx= 4.38
Fy= 36 KSI

FLOOR JOIST
SCALE: 3" = 1'-0"



Ix= 67.4
Sx= 13.5
Fy= 36 KSI

FLOOR BEAM
SCALE: 3" = 1'-0"

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FLOOR FRAMING
PLAN-CONCRETE

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ARCHITECT OF RECORD

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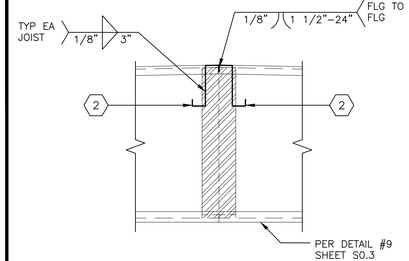
SHEET NUMBER

S1.2

NOT USED

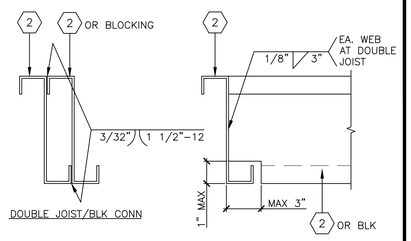
16



DOUBLE JOIST AT RIDGE

SCALE: 3" = 1'-0"

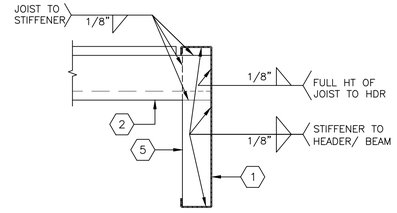
11



JOIST TO JOIST

SCALE: 3" = 1'-0"

6



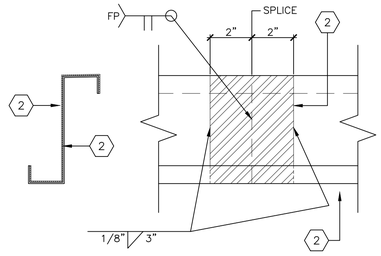
STIFFENER TO ROOF HEADER/BEAM

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

1

NOT USED

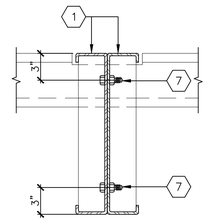
17



ALT ROOF JOIST SPLICE

SCALE: NTS

12

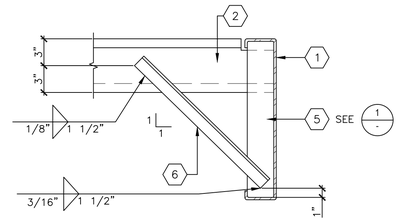


FOR GAP EXEEDS ⅛" PROVIDE SHIM ℄ AT EACH BOLT CONN. PER 6/S1.0

ALTERNATE MODLINE CONNECTION

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

7



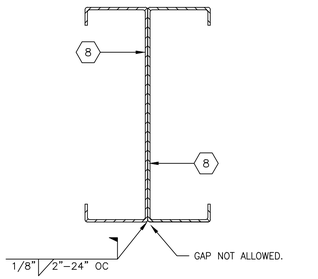
BRACE AT ROOF

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

2

NOT USED

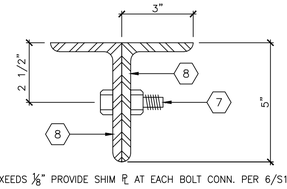
18



ALT. OVERHANG CONNECTION (CHANNEL)

SCALE: 3" = 1'-0"

13

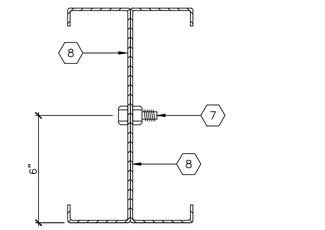


FOR GAP EXEEDS ⅛" PROVIDE SHIM ℄ AT EACH BOLT CONN. PER 6/S1.0

OVERHANG CONNECTION (ANGLE)

SCALE: 4" = 1'-0"

8

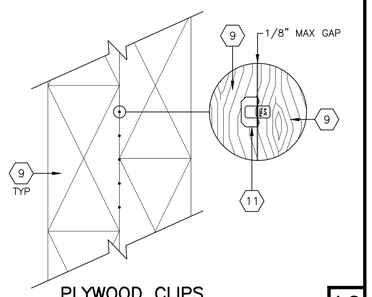


FOR GAP EXEEDS ⅛" PROVIDE SHIM ℄ AT EACH BOLT CONN. PER 6/S1.0

OVERHANG CONNECTION (CHANNEL)

SCALE: 3" = 1'-0"

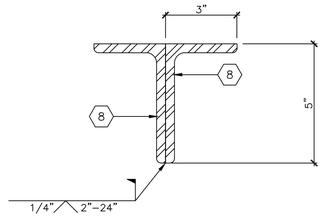
3



PLYWOOD CLIPS

SCALE: NTS

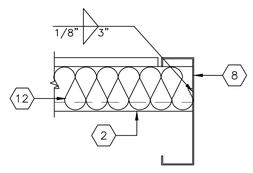
19



ALT. OVERHANG CONNECTION (ANGLE)

SCALE: 4" = 1'-0"

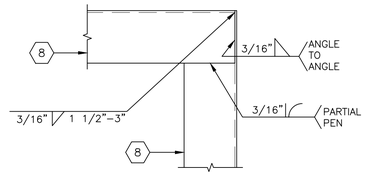
14



OVERHANG JOIST TO OUTRIGGER

SCALE: NTS

9



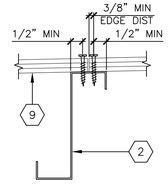
OVERHANG CONNECTION (ANGLE)

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

4

NOT USED

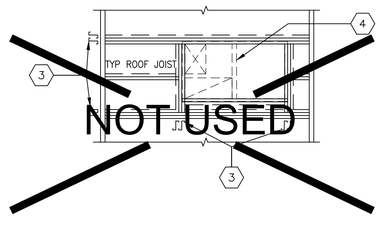
20



ROOF JOIST

SCALE: 3" = 1'-0"

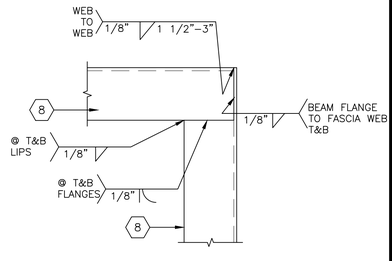
15



TYPICAL ROOF MOUNT A/C SUPPORT

SCALE: NTS

10



OVERHANG CONNECTION (CHANNEL)

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

5

KEY NOTES

1. ROOF HEADER/BEAM (SEE STRUCTURAL ROOF FRAMING PLAN)
2. ROOF JOIST (SEE STRUCTURAL ROOF FRAMING PLAN)
3. DOUBLE JOIST BLOCKING
4. ROOF MOUNTED A/C UNIT (SEE MECHANICAL PLANS)
5. 1/4" STIFFENER
6. L-1 1/2" x 1 1/2" x 3/16" BRACE
7. 5/8" MACHINE BOLT. SHEET S0.1 AND S0.2 FOR SPACING
8. OVERHANG OUTRIGGER FASCIA (SEE STRUCTURAL ROOF FRAMING PLAN)
9. PLYWOOD ROOF
10. NOT USED
11. 'SIMPSON' PSCL (3/4" X 20 GA) PLYWOOD CLIPS. SEE SHEET S2.2 FOR PLYWOOD ATTACHMENT INFORMATION
12. INSULATION SEE SHEETS A0.10 THRU A0.18 FOR R VALUE REQUIRED

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ROOF FRAMING DETAILS

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APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

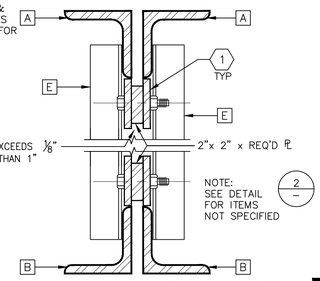
1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

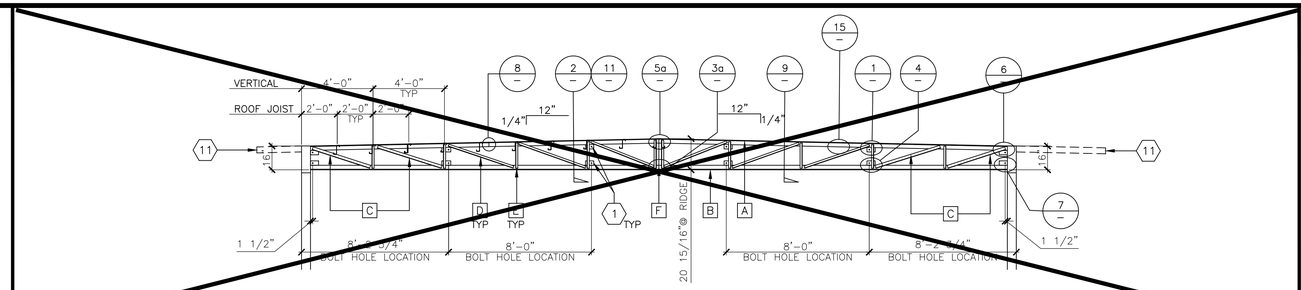
S2.0

NOTE:
ROOF JOIST & ANGLE BRACES NOT SHOWN FOR CLARITY



GAP AT MODLINE (ALTERNATE)

11



DUAL SLOPE TRUSS AT MODLINE

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

A

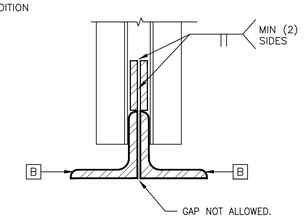
KEY NOTES

1. 3/8" X 3" x 5 1/2" PLATE WITH 11/16" HOLE FOR 5/8" MACHINE BOLT PLATES AT 8'-0" OC MAX WHERE OCCURS PER ELEVATION FOR MODULE CONNECTION SEE DETAIL 2
2. 5/8"ø MACHINE BOLT AT 8'-0" OC MAX
3. 6" LONG x 1/4" BACK UP PLATE
4. 1/4" FULL DEPTH STIFFENER PLATE
5. NOT USED
6. NOT USED
7. STEEL ROOF JOIST
8. L-1 1/2" X 1 1/2" X 3/16" BRACE EACH SIDE @ 8'-0" OC MAX
9. STEEL COLUMN
10. STEEL STUB COLUMN
11. OVERHANG
12. WHERE DIAGONAL CHORD DOES NOT ACHIEVE MIN WELD PER DETAIL DUE TO TOLERANCES, USE ADDITIONAL PLATES AS REQUIRED. PLATES SHALL MEET THE SAME SIZE AND GRADE PER KEYNOTE #01. WELD ADDITIONAL PLATE PER DETAIL #2/-

GENERAL NOTES

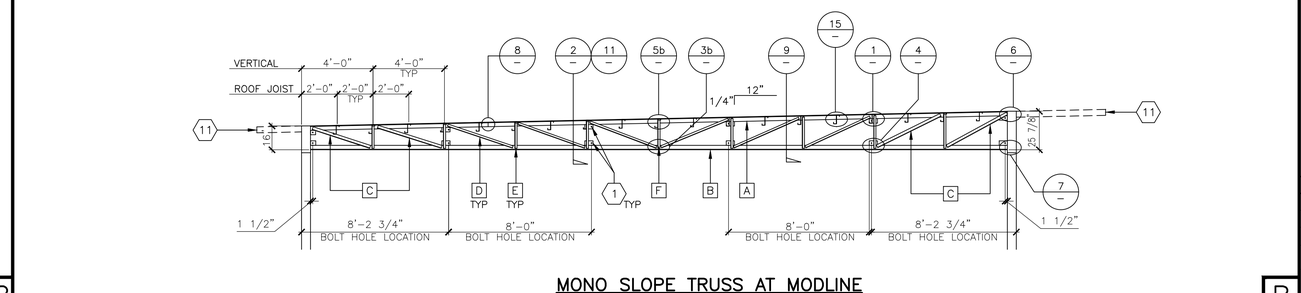
1. ALL STEEL GRADES TO BE A-36 PER SHEET S0.0a
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70-XX OR EQUAL
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURES SPECS
4. BOLTS & NUTS TO BE A307

NOTE:
DETAIL APPLIES TO TOP OR BOTTOM CHORD CONDITION



ALTERNATE ATTACHMENT AT MISALIGNED BOLT CONNECTION

12



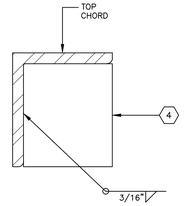
MONO SLOPE TRUSS AT MODLINE

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

B

TRUSS SCHEDULE

A	TOP CHORD	L-3" X 3" X 3/8"
B	BOTTOM CHORD	L-3" X 3" X 3/8"
C	1ST & 2ND DIAGONAL	L-2" X 2" X 3/16"
D	TYPICAL DIAGONAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
E	TYPICAL VERTICAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
F	CAMBER	5/8" AT MIDSPAN

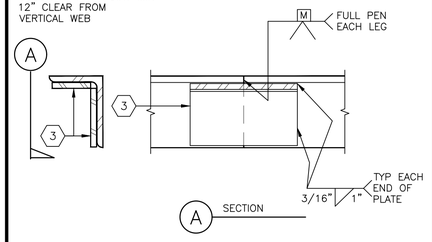


SECTION AT TRUSS RIDGE

SCALE: 6" = 1'-0"

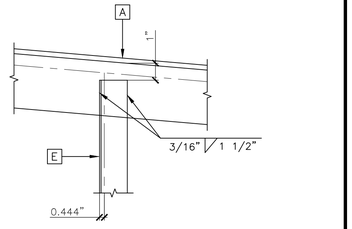
13

NOTE: CHORD SPLICE MAY OCCUR AT ANY POINT MIN 12" CLEAR FROM VERTICAL WEB



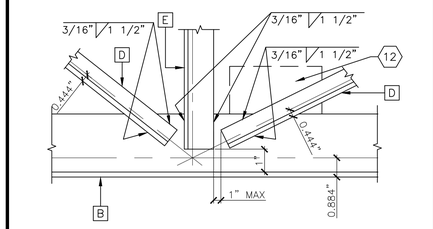
ALTERNATE TRUSS CHORD SPLICE

8



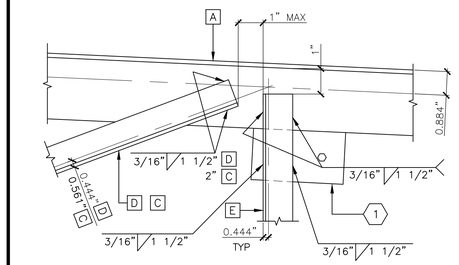
TOP CHORD @ MIDPOINT (MONO SLOPE)

5b



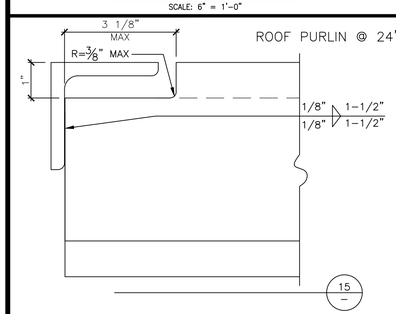
BOTTOM CHORD @ MID SPAN (MONO SLOPE)

3b



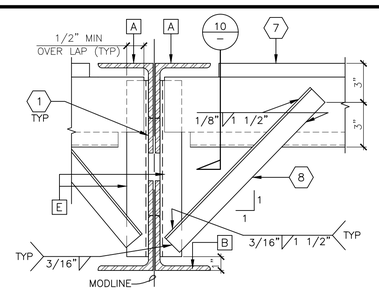
VERTICLE & DIAGONAL TOP CHORD

1



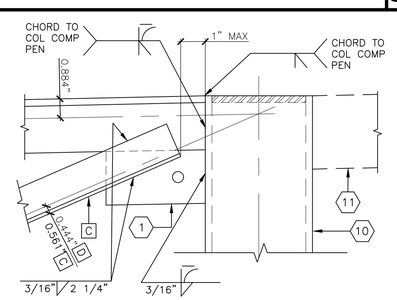
ROOF PURLIN TO TRUSS TOP CORD

14



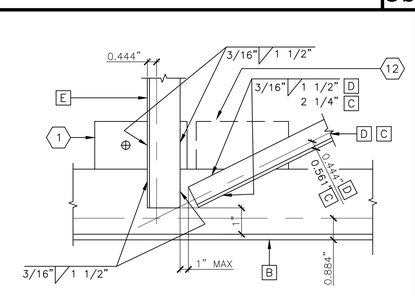
TRUSS TO ROOF JOIST BRACING

9



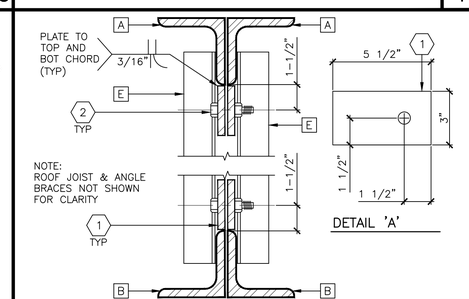
POST CONNECTION TO TRUSS (TOP)

6



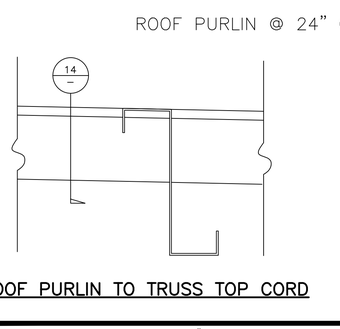
VERT & DIAG TO BOTTOM CHORD

4



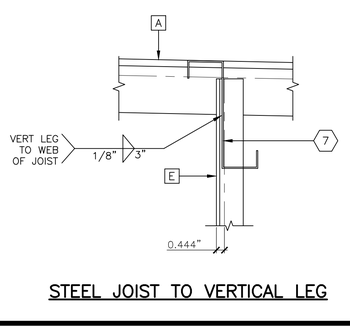
TIE PLATE MODLINE CONNECTION

2



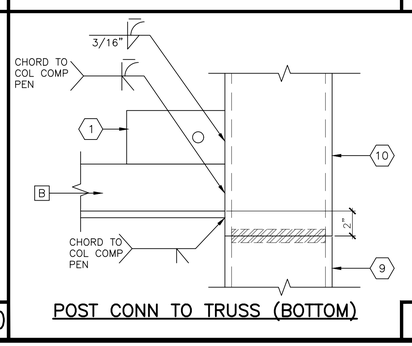
ROOF PURLIN TO TRUSS TOP CORD

15



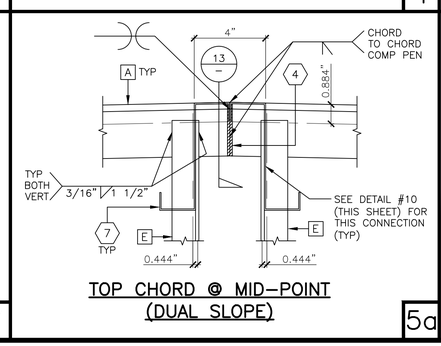
STEEL JOIST TO VERTICAL LEG

10



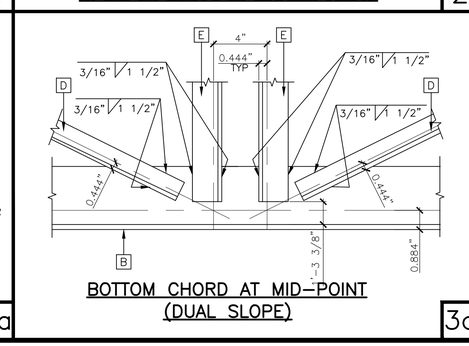
POST CONN TO TRUSS (BOTTOM)

7



TOP CHORD @ MID-POINT (DUAL SLOPE)

5a



BOTTOM CHORD AT MID-POINT (DUAL SLOPE)

3a

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS
CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

ROOF TRUSS AND DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4457 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

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2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
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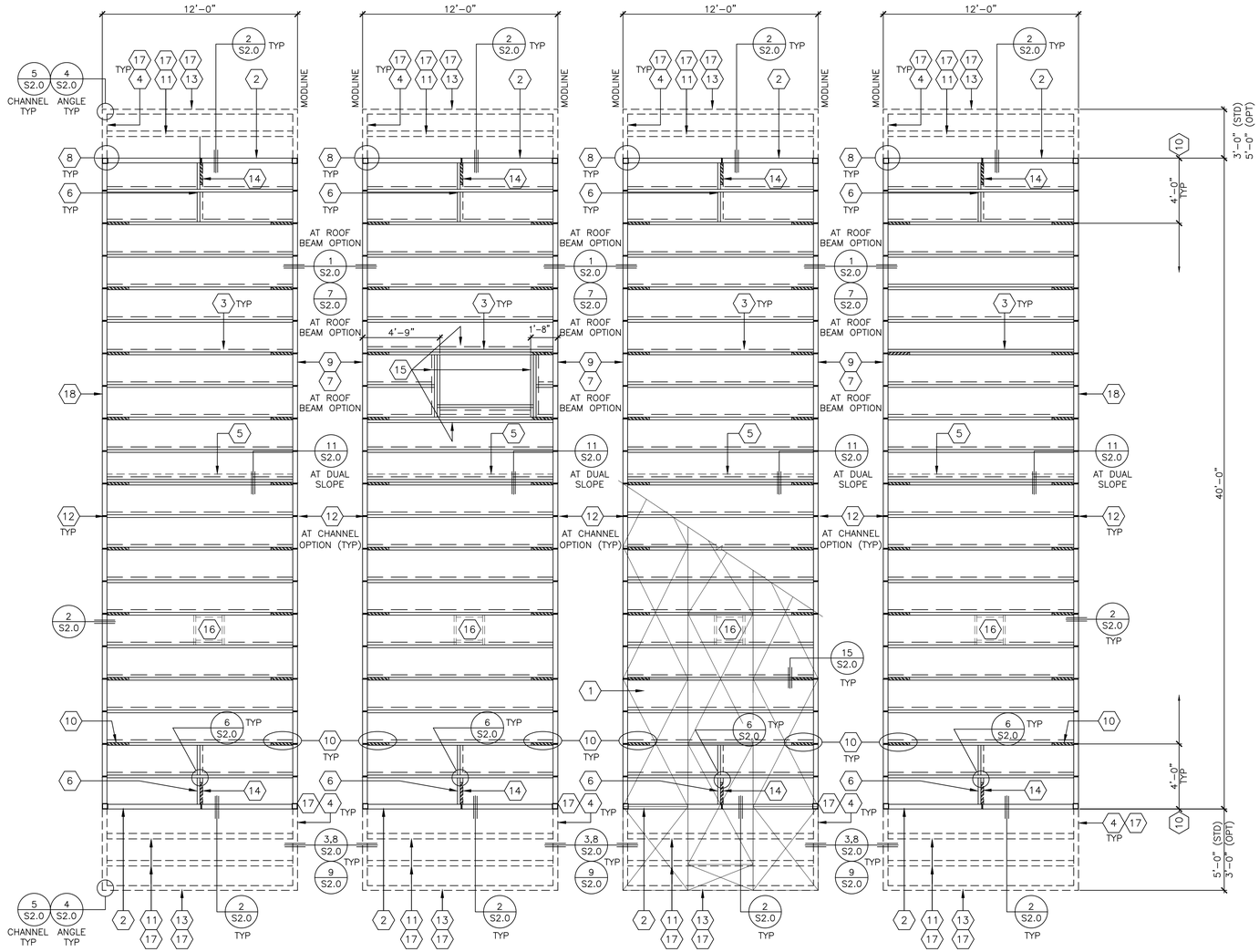
DATE:	00-00-00

SHEET NUMBER

S2.1

REAR



LEFT HAND MODULE | TYPICAL CENTER MODULE | TYPICAL CENTER MODULE | RIGHT HAND MODULE

FRONT

ROOF FRAMING PLAN W/ PLYWOOD DECK

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

KEY NOTES

1. ROOF SHEATHING: 3/4" C-D EXPOSURE 1, 48/24 SPAN RATING, PS 1-09, APA RATED OR EQUAL, SQUARE EDGE W/ PLYWOOD CLIPS @ 16" OC LONG EDGES ON UNSUPPORTED EDGES (SEE #19/S2.0); ATTACH TO STEEL FRAMING WITH #10-24 X 1 3/4" SELF TAP SCREWS @ 6" OC EDGES AND 10" OC FIELD. MIN 24" SHEET DIMENSION

   ALT: USE 'NAILPRO' NP145S FASTENER 0.145"ø SHOT PIN W/6" SPACING AT EDGE AND AT FIELD PER ICC REPORT #ESR-2961
2. ROOF HEADER (SEE SCHEDULE BELOW) BOUNDARY NAILING AT HEADER
3. Z ROOF JOIST (SEE SCHEDULE BELOW)
4. OVERHANG OUTRIGGER, TYPICAL EACH SIDE (SEE SCHEDULE BELOW)
5. USE DOUBLE JOIST AT THIS LOCATION (MIDSPAN) FOR DUAL SLOPE ROOF ADDITIONAL JOIST SHOWN AS HIDDEN LINES USE SINGLE JOIST AT THIS LOCATION FOR MONO SLOPE ROOF
6. Z MEMBER BLOCK AT MIDSPAN OF HEADER, TYPICAL EACH END
7. OPTIONAL ROOF BEAM AT MODLINE (SEE SCHEDULE BELOW)
8. STEEL CORNER STUB COLUMN
9. STEEL TRUSS (SEE ROOF TRUSS & DETAILS SHEET)
10. STEEL BRACE @ 48" MAX AT BOTH TRUSS AND BEAM
11. OVERHANG JOIST (SEE SCHEDULE BELOW)
12. 1/4" FULL HEIGHT STIFFENER AT ROOF BEAM TYPICAL (SEE STRUCTURAL BLDG SECTION SHEET)
13. OVERHANG FASCIA (SEE SCHEDULE BELOW)
14. STEEL BRACE AT ROOF HEADER TYPICAL (SEE BUILDING SECTIONS)
15. TYPICAL A/C ROOF MOUNT FRAMING. SEE MECHANICAL PLANS FOR LOCATIONS PROVIDE DOUBLE PURLINS AS SHOWN SEE DETAIL #10/S2.0 A/C UNIT MAX. WEIGHT 680#, SEE MECHANICAL SHEETS FOR ACTUAL UNIT WEIGH
16. FOR SOLATUBE OPTION, SEE SHEET A11.0 FOR LOCATIONS AND DETAIL
17. ALT OVERHANG MEMBER AT FASCIA AND OUTRIGGER: L-5" X 3" X 3/8" SPACING OF ALT OVERHANG MEMBER AT 24" OC MAX.
18. ROOF BEAM AT SIDEWALL. (SEE PROFILE BELOW)

ROOF BEAM SCHEDULE

ROOF SLOPE	
~~DUAL~~	~~18" 23" 18" x 3 1/2" x 10 GA TAPERED SECTION CHANNEL~~
MONO	18"-28" x 3 1/2" x 10 GA TAPERED SECTION CHANNEL

ROOF HEADER SCHEDULE

ROOF SLOPE	
~~DUAL~~	~~18" x 3 1/2" x 10 GA CHANNEL (BOTH ENDS)~~
MONO	18" x 3 1/2" x 10 GA CHANNEL (LOW END) 28" x 3 1/2" x 12 GA CHANNEL (HIGH END)

ROOF JOIST SCHEDULE

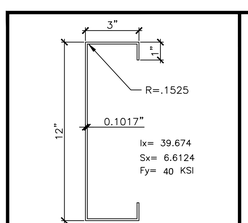
JOIST	SPACING
6" x 2" x 14 GA Z-MEMBER	24" OC MAX

MODLINE SCHEDULE

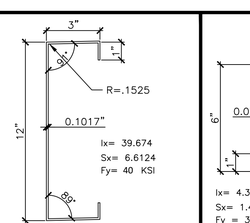
TOP CHORD	BOTTOM CHORD	CHANNEL
SEE ROOF TRUSS SHEET	SEE ROOF TRUSS SHEET	N/A
N/A	N/A	18" TO 28" CHANNEL

OVERHANG SCHEDULE

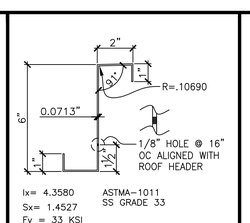
	JOIST	OUTRIGGER	FASCIA
☑ STD	Z-6" X 2" X 14 GA AT 24" MAX OC	C-12" X 3" X 12 GA	C-12" X 3" X 12 GA
☐ OPT	L-5" X 3" X 3/8" LLV AT 24" MAX OC	L-5" X 3" X 3/8" LLV	L-5" X 3" X 3/8" LLV



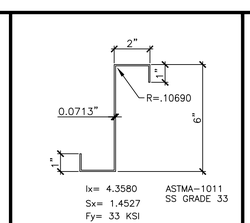
OVERHANG OUTRIGGER
SCALE: 3" = 1'-0"



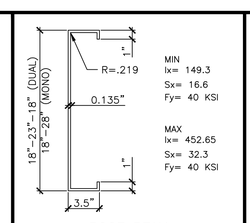
OVERHANG FASCIA
SCALE: 3" = 1'-0"



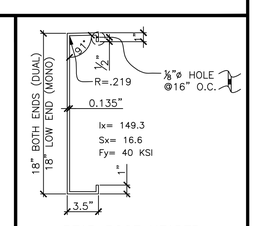
ROOF JOIST
SCALE: 3" = 1'-0"



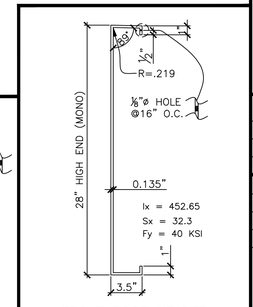
ROOF BLOCKING
SCALE: 3" = 1'-0"



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



REAR ROOF HEADER
SCALE: 1 1/2" = 1'-0"



FRONT ROOF HEADER
SCALE: 1 1/2" = 1'-0"

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CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

ROOF FRAMING PLAN-PLYWOOD SHEATHING

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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PROJECT NO.:	00-0000
DRAWN BY:	00
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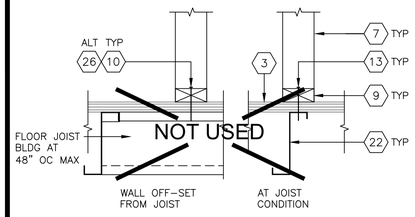
SHEET NUMBER

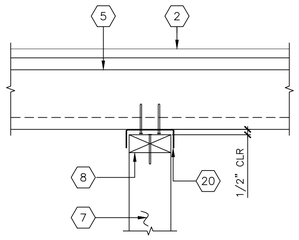
S2.2



INTERIOR WALL AT FLOOR PARALLEL TO FLOOR JOIST

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

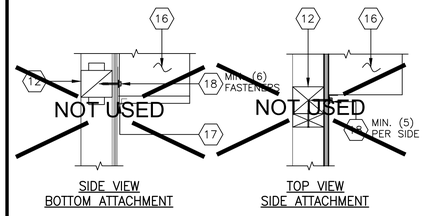
16



(ALT.) INTERIOR WALL ATTACHMENT PERPENDICULAR TO ROOF JOIST

SCALE: NTS

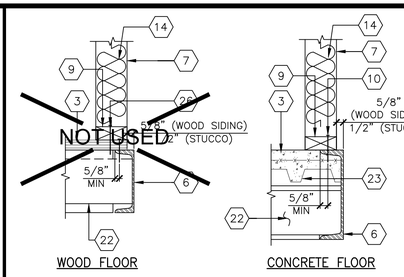
11



ATTACHMENT AT AC UNIT

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

6



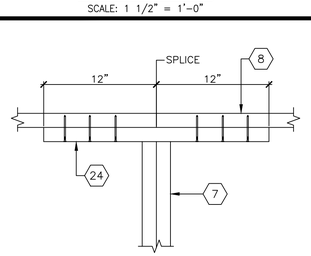
EXTERIOR WALL AT FLOOR

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

1

KEY NOTES

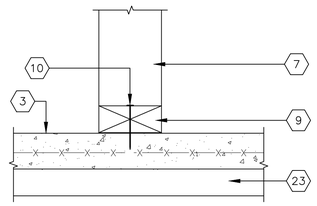
1. EXTERIOR PLYWOOD SIDING/SHEATHING (SEE WALL FRAMING ELEVATION SHEET)
2. ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLAN)
3. FLOOR SYSTEM (SEE FLOOR FRAMING SHEET)
4. STEEL COLUMN
5. STEEL ROOF JOIST (SEE STRUCTURAL ROOF FRAMING PLAN)
6. PERIMETER FLOOR FRAME (SEE STRUCTURAL FLOOR FRAMING PLAN)
7. 2x FULL HEIGHT STUDS
8. 2x TOP PLATE
9. 2x BOTTOM PLATE (PRESSURE TREATED @ CONCRETE FLOOR OPTION)
10. 'HILTI' X-U 15 0.145"ø X 2-7/16" SHOT PIN SPACING PER WOOD STUD WALL FRAMING UNDER "BTM PLATE TO CHANNEL" AND "JAMB STUD TO COLUMN" ON S3.2, END DISTANCE TO BE 4" MIN AND 8" MAX AT END OF SILL PLATE, MIN 2 FASTENERS EACH PLATE
11. CONTINUOUS SPACER AS REQUIRED
12. 4x POST / BLOCKING. SEE WALL FRAMING ELEVATION SHEET
13. FASTENERS (SEE WALL FRAMING SCHEDULE ON WALL FRAMING ELEVATION SHEET)
14. INSULATION IN EXTERIOR WALL. SEE SHEETS A0.10 THRU A0.18 FOR R VALUE REQUIRED
15. TRUSS BOTTOM CHORD
16. WALL MOUNTED AC UNIT (SEE MECHANICAL PLANS)
17. 16 GAx24" LONG STEEL BOTTOM BRACKET AT AC
18. 3/8"ø X MIN 3-1/2" LAG BOLTS, QUANTITY INDICATED PER DETAIL
19. 2x6 BLOCKING @ 48" OC W/ (2) #10 X 1 1/2" WS EACH END OF BLOCKING, NOTCH AS REQUIRED (6)
20. CONTINUOUS C-3 ½" OR C-5 ½" X 1 5/8" X 20 GA TRACK, SECURED TO MEMBERS W/(2) #10 STS AT ROOF JOIST OR (2) 16d NAILS INTO 2x BLOCK TYP
21. CONTINUOUS 2x BLOCKING @ EACH SIDE OF TOP PLATE WITH (2) 16d NAILS TO EACH BLOCKING @ 48" OC OR (2) #10 STS TO EACH JOIST TYPICAL
22. FLOOR JOIST MEMBER OR BLOCKING (SEE FLOOR FRAMING PLAN)
23. METAL FLOOR DECK
24. 2x BLOCK AT SPLICE LOCATION. SECURE 2x BLOCK WITH (6) 16d NAILS AT EACH SIDE.
25. 16D NAILS @ 24" O.C. AT DOUBLE STUDS. SEE GENERAL NOTE 9 ON SHEET S3.2
26. MIN #12-24 X 2 ¾" MIN SDS SPACING PER WOOD STUD WALL FRAMING UNDER "BTM PLATE TO PLYWOOD" AND "JAMB STUD TO COLUMN" ON S3.2
27. 5/8"ø THREADED ROD WELD TO FLOOR JOIST OR BLOCKING. FASTEN TO SILL PLATE WITH (2) NUTS AND (2) WASHERS @ 48" O.C. MAX. MIN 2 ANCHORS EACH SILL PLATE.



TOP PLATE SPLICE

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

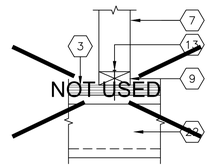
17



INTERIOR WALL TO CONCRETE FLOOR

SCALE: 3" = 1'-0"

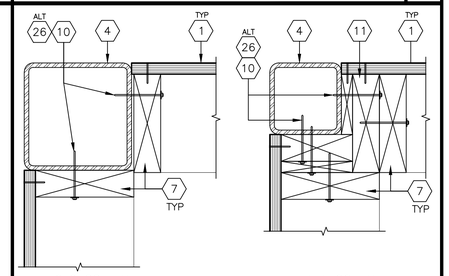
12



INTERIOR WALL AT FLOOR PERPENDICULAR TO FLOOR JOIST

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

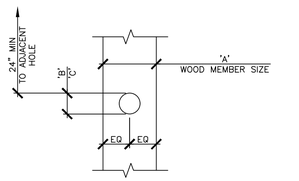
7



COLUMN AT CORNER

SCALE: 3" = 1'-0"

2



BORING SCHEDULE FOR WOOD STUDS

		2X4	2X6	2X8	
A	SIZE				
B	EXT		2-3/16"ø MAX	2-7/8"ø MAX	
C	INT *	2"ø MAX	3-1/4"ø MAX	4-3/8"ø MAX	

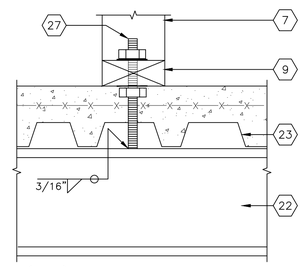
ALLOWABLE HOLE SIZES DETERMINED PER CBC SECTION 2308.5.10

* = NON BEARING WALL

WOOD STUD BORING DETAIL

SCALE: 3" = 1'-0"

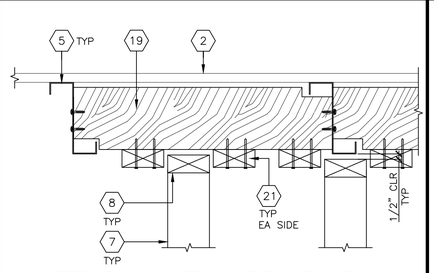
18



(ALT) INTERIOR WALL PERPENDICULAR TO FLOOR JOIST

SCALE: 3" = 1'-0"

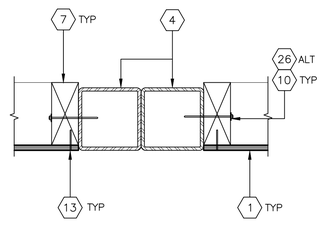
13



INTERIOR WALL ATTACHMENT PARALLEL TO ROOF JOIST

SCALE: NTS

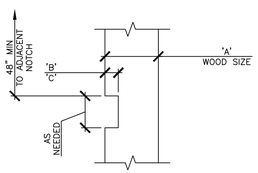
8



COLUMN AT MODLINE

SCALE: 3" = 1'-0"

3



NOTCHING SCHEDULE FOR WOOD STUDS

		2X4	2X6	2X8	
A	SIZE				
B	EXT		1-3/8" MAX	1-13/16" MAX	
C	INT *	1-3/8" MAX	2-3/16" MAX	2-7/8" MAX	

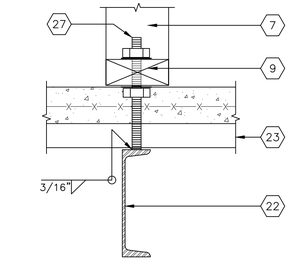
ALLOWABLE NOTCH SIZES DETERMINED PER SECTION CBC 2308.5.9

* = NON BEARING WALL

WOOD STUD NOTCHING DETAIL

SCALE: 3" = 1'-0"

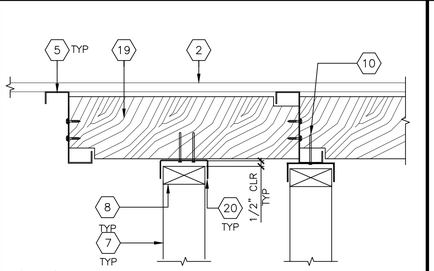
19



(ALT) INTERIOR WALL PARALLEL TO FLOOR JOIST

SCALE: 3" = 1'-0"

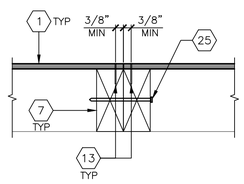
14



(ALT.) INTERIOR WALL ATTACHMENT PARALLEL TO ROOF JOIST

SCALE: NTS

9



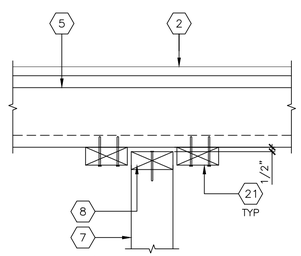
WALL AT PANEL JOINT

SCALE: 3" = 1'-0"

4

NOT USED

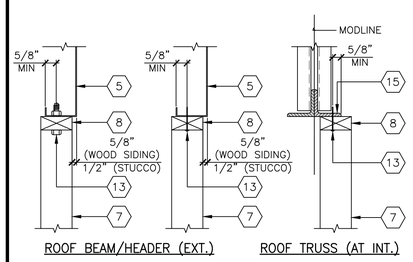
15



INTERIOR WALL ATTACHMENT PERPENDICULAR TO ROOF JOIST

SCALE: NTS

10



WALL AT ROOF

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

5

GENERAL NOTES

1. SEE WALL FRAMING ELEVATION SHEET S3.2 FOR NAILING SCHEDULE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

WALL FRAMING

GLOBAL MODULAR incorporated

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PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS-WOOD STUD

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
Exp 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

S3.0

WOOD STUD WALL FRAMING SCHEDULE

EXTERIOR	GRADE	SIZE	SPACING	BLDG CORNER SPACING
~~WOOD SIDING~~	~~HF #2~~	~~SHEET A0.2~~	~~16" OC~~	~~16" OC WITHIN 72" OF CORNER~~
STUCCO	DF #2	SHEET A0.2	12" OC	8" OC WITHIN 72" OF CORNER

WOOD STUD WALL OPENING SCHEDULE

OPENING		FULL HT/JAMB STUD	TRIMMER	HEADER	SILL	BLOCKING
WINDOWS						
8'x4'	STUCCO	(4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	(2) FLAT	–
	~~WOOD~~	~~(3) EACH SIDE~~	~~(1) EACH SIDE~~	~~(3) FLAT~~	~~(2) FLAT~~	
8'x2'	STUCCO	(4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	(2) FLAT	–
	~~WOOD~~	~~(3) EACH SIDE~~	~~(1) EACH SIDE~~	~~(3) FLAT~~	~~(2) FLAT~~	
6'x4'	STUCCO	(4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	(3) FLAT	–
	~~WOOD~~	~~(2) EACH SIDE~~	~~(1) EACH SIDE~~	~~(3) FLAT~~	~~(2) FLAT~~	–
4'x4'	STUCCO	(3) EACH SIDE	(1) EACH SIDE	(3) FLAT	(2) FLAT	–
	~~WOOD~~	~~(2) EACH SIDE~~	~~(1) EACH SIDE~~	~~(3) FLAT~~	~~(2) FLAT~~	–
DOORS						
3'x7'	STUCCO	(3) EACH SIDE	(1) EACH SIDE	(3) FLAT	–	–
	~~WOOD~~	~~(2) EACH SIDE~~	~~(1) EACH SIDE~~	~~(3) FLAT~~		
6'x7'	STUCCO	(4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	–	–
	~~WOOD~~	~~(2) EACH SIDE~~	~~(1) EACH SIDE~~	~~(3) FLAT~~		
AC						
ALL		(1) 4x6 POST EACH SIDE OR (1) 4x8 POST EACH SIDE	–	(1) FLAT AT RETURN	(1) FLAT AT RETURN	4x6 OR 4X8

WOOD STUD WALL FRAMING SCHEDULE

TOP PLATE TO BTM BEAM	BTM PLATE TO CHANNEL (CONC FLRS)	JAMB STUD TO COLUMN
'HILTI' X–U 0.157"ø SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR–2269 ALT: 1/2" MACHINE BOLTS AT 32" MAX OC	'HILTI' X–U 15 0.145"ø SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR–2269 ALT: #12 SDS AT 14" MAX OC, 8" MAX OC AT CORNERS	'HILTI' X–U 15 0.145"ø SHOT PIN AT 24" MAX OC PER ICC REPORT # ESR–2269 ALT: #12 STSMS AT 24" MAX OC
	BTM PLATE TO PLYWOOD (PLYWOOD FLRS) #12 WOOD SCREWS AT 14" MAX OC, 8" MAX OC AT CORNERS	

METAL STUD WALL FRAMING SCHEDULE

EXTERIOR	GAUGE	SIZE	SPACING	BLDG CORNER SPACING
WOOD SIDING	20	SHEET A0.2	16" OC	16" OC WITHIN 48" OF CORNER
STUCCO	20	SHEET A0.2	16" OC	12" OC WITHIN 60" OF CORNER

METAL STUD WALL OPENING SCHEDULE

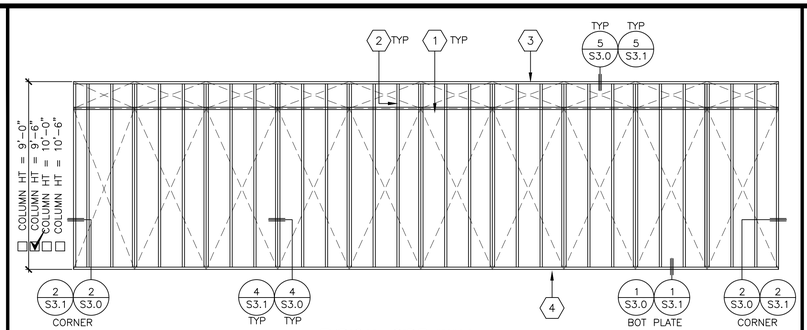
OPENING		FULL HT/JAMB STUD	HEADER TRACK	SILL TRACK	BLOCKING
WINDOWS					
8'x4'	STUCCO	(4) EACH SIDE	(E) DOUBLE	(E) DOUBLE	–
	WOOD	(3) EACH SIDE	(E) DOUBLE	(E) DOUBLE	–
8'x2'	STUCCO	(4) EACH SIDE	(E) DOUBLE	(E) DOUBLE	–
	WOOD	(3) EACH SIDE	(E) DOUBLE	(E) DOUBLE	–
6'x4'	STUCCO	(4) EACH SIDE	(E) DOUBLE	(E) DOUBLE	–
	WOOD	(3) EACH SIDE	(E) DOUBLE	(E) DOUBLE	–
4'x4'	STUCCO	(2) EACH SIDE [*]	(D) SINGLE	(D) SINGLE	–
	WOOD	(2) EACH SIDE	(D) SINGLE	(D) SINGLE	–
DOORS					
3'x7'	STUCCO	(2) EACH SIDE	(D) SINGLE	–	–
	WOOD	(2) EACH SIDE	(D) SINGLE	–	–
6'x7'	STUCCO	(4) EACH SIDE	(E) DOUBLE	–	–
	WOOD	(3) EACH SIDE	(E) DOUBLE	–	–
AC					
ALL		(1) 4x4 POST EACH SIDE	SINGLE AT RETURN	SINGLE AT RETURN	4x4

METAL STUD WALL FRAMING SCHEDULE

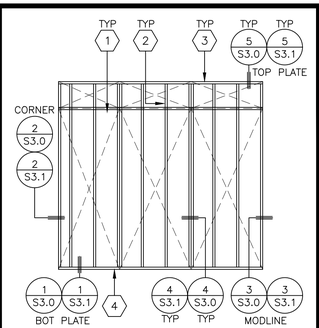
TOP TRACK	BOTTOM TRACK	JAMB STUD TO COLUMN
'HILT' X–U 0.157"ø SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR–2269 ALT: 1/2" MACHINE BOLTS AT 32" MAX OC OR #10 STS AT 16" MAX OC	#12 STSMS AT 8" MAX OC ALT: 'HILT' X–U 0.157"ø SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR–2269	'HILTI' X–U 0.157"ø SHOT PIN AT 24" MAX OC PER ICC REPORT # ESR–2269 ALT: #10 STSMS AT 24" MAX OC

FRAMING NOTES

NOTE: FOR EXACT OPENING, WALL SIZE LOCATIONS SEE FLOOR PLAN
[*] = ADD (1) ADDITIONAL FULL HT JAMB STUD (EACH SIDE) OR HEADER/SILL AT BUILDING CORNER
[**] = TOTAL OF (5) FULL HT JAMB STUD (EACH SIDE) AT BUILDING CORNER



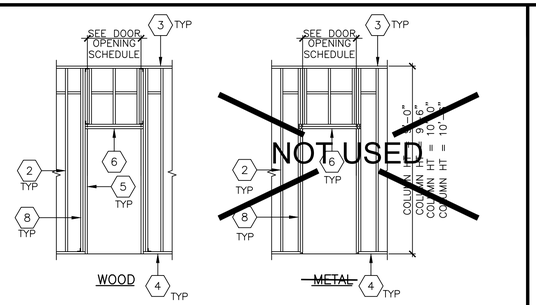
TYPICAL SIDE WALL



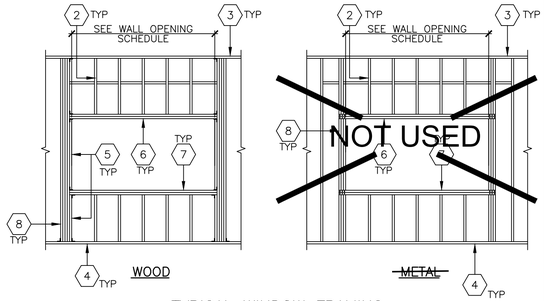
TYPICAL END WALL FRAMING

KEY NOTES

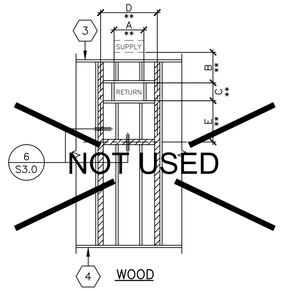
1. EXTERIOR PLYWOOD SIDING (DURATEMP) OR 1/2" CD–X PLYWOOD SHEATHING (ALT: OSB WOOD STRUCTURAL PANEL): TO WOOD STUDS USE CORROSION RESISTANT 8d BOX NAILS AT 6" OC BOUNDARY & EDGES, AND 12" OC FIELD TO METAL STUDS USE #10 STS AT 6" OC BOUNDARY & EDGES, AND 12" OC FIELD
2. 2x OR METAL FULL HEIGHT STUDS
3. 2x TOP PLATE OR METAL TRACK
4. 2x BOTTOM PLATE/ METAL TRACK (PRESSURE WOOD TREATED @ CONCRETE FLOOR OPTION) 6" MIN EDGE DISTANCE FOR EVERY OPENING.
5. 2x OR METAL STUD TRIMMER – TYPICAL AT OPENINGS
6. HEADER (SEE WALL OPENING SCHEDULE)
7. WINDOW SILL (SEE WALL OPENING SCHEDULE)
8. JAMB STUD (SEE WALL OPENING SCHEDULE)
9. 'SIMPSON' A35 CLIP AT OPENINGS GREATER THAN 48"
10. 'SIMPSON' A34 CLIP



TYPICAL DOOR FRAMING



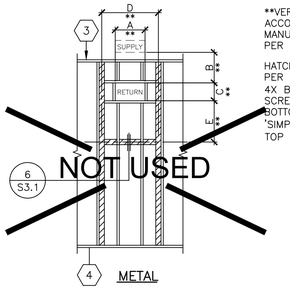
TYPICAL WINDOW FRAMING



**VERIFY DIMENSIONS ACCORDING TO MANUFACTURES SPECS PER UNIT TYPE AND SIZE

HATCH = 4X FRAMING PER SCHEDULE SECURE 4X BLKG WITH (5) 10d NAILS TOP AND BOTTOM ALTERNATE: USE SIMPSON A34 CLIPS TOP AND BOTTOM (TYP)

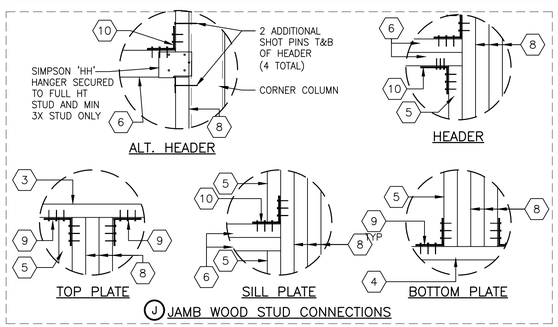
EXTERIOR WALL MOUNT AC UNIT FRAMING



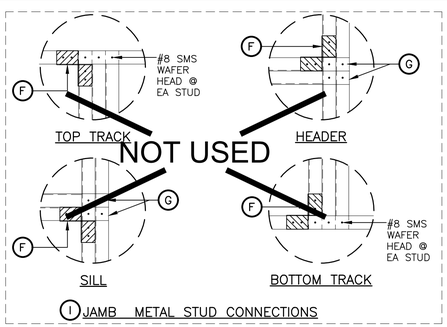
**VERIFY DIMENSIONS ACCORDING TO MANUFACTURES SPECS PER UNIT TYPE AND SIZE

HATCH = 4X FRAMING PER SCHEDULE SECURE 4X BLKG WITH (3) #10 SCREWS TOP AND BOTTOM ALTERNATE: USE SIMPSON A34 CLIPS TOP AND BOTTOM (TYP)

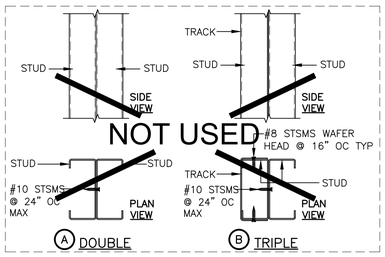
EXTERIOR WALL MOUNT AC UNIT FRAMING



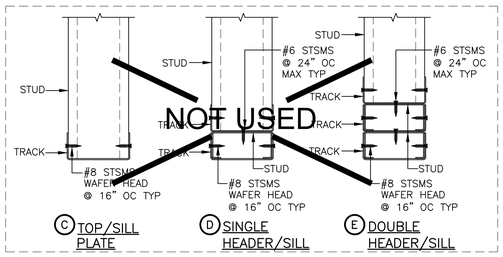
J JAMB WOOD STUD CONNECTIONS



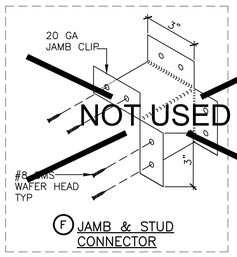
I JAMB METAL STUD CONNECTIONS



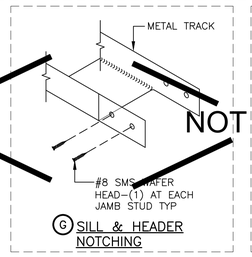
A DOUBLE B TRIPLE



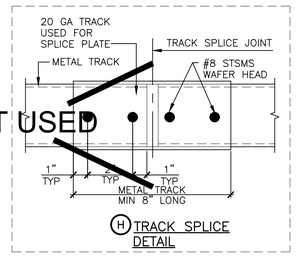
C TOP/SILL PLATE D SINGLE HEADER/SILL E DOUBLE HEADER/SILL



F JAMB & STUD CONNECTOR



G SILL & HEADER NOTCHING



H TRACK SPLICE DETAIL

TYPICAL FRAMING ATTACHMENTS DETAILS

SCALE: NTS

GENERAL NOTES

WOOD STUD ATTACHMENT

1. JOIST TO SILL OR GIRDER, TOENAIL: 3–8d COMMON (2.5"x0.131"); 3–3"x0.131" NAILS;
2. BRIDGING TO JOIST, TOENAIL EACH END: 2–8d COMMON (2.5"x0.131"); 2–3"x0.131" NAILS;
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL: 2–8d COMMON (2.5"x0.131")
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL: 3–8d COMMON (2.5"x0.131")
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL: 2–16d COMMON (3.5"x0.162")
6. SOLE PLATE TO JOIST OR BLOCKING, TYP FACE NAIL: 16d (3.5"x0.135") @ 16" OC; 3"x0.131" NAILS @ 8" OC;
   SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL, BRACED WALL PANELS: 3–16d (3.5"x0.135") @ 16"; 4–3"x0.131" NAILS;
7. TOP PLATE TO STUD, END NAIL: 2–16d COMMON (3.5"x0.162"); 3–3"x0.131" NAILS;
8. STUD TO SOLE PLATE, TOENAIL: 4–8d COMMON (2.5"x0.131"); 4–3"x0.131 NAILS;
   END NAIL: 2–16d COMMON (3.5"x0.162"); 3–3"x0.131" NAILS;
9. DOUBLE STUDS, FACE NAIL: 16d (3.5"x0.135") @ 24" OC; 3"x0.131" NAIL @ 8" OC;
10. DOUBLE TOP PLATES, TYP FACE NAIL: 16d (3.5"x0.135") @ 16" OC; 3"x0.131" NAILS @ 12" OC;
    DOUBLE TOP PLATES, LAP SPLICE: 8–16d COMMON (3.5"x0.162"); 12–3"x0.131" NAILS;
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL: 3–8d COMMON (2.5"x0.131"); 3–3"x0.131" NAILS;
12. RIM JOIST TO TOP PLATE, TOENAIL: 8d (2.5"x0.131") @ 6" OC; 3"x0.131" NAIL @ 6" OC;
13. TOP PLATES, LAP & INTERSECTION, FACE NAIL: 2–16d COMMON (3.5"x0.162"); 3–3"x0.131" NAILS;
14. CONTINUOUS HEADER, TWO PIECES, 16" OC ALONG EDGE: 16d COMMON (3.5"x0.162")
15. CEILING JOIST TO PLATE, TOENAIL: 3–8d COMMON (2.5"x0.131"); 5–3"x0.131" NAILS;
16. CONTINUOUS HEADER TO STUD, TOENAIL: 4–8d COMMON (2.5"x0.131")
17. CEILING JOISTS, LAP OVER PARTITIONS (SEE SECT 2304.10.2 , TABLE 2304.10.2), FACE NAIL: 3–16d COMMON (3.5"x0.162") MIN, TABLE 2304.10.2 ; 4–3"x0.131" NAILS;
18. CEILING JOIST TO PARALLEL RAFTERS (SEE SECT 2304.10.2 , TABLE 2304.10.2), FACE NAIL: 3–16d COMMON (3.5"x0.162") MIN TABLE 2304.10.2 ; 4–3"x0.131" NAILS;
19. RAFTER TO PLATE (SEE SECT 2304.10.2, TABLE 2304.10.2), FACE NAIL: 3–8d COMMON (2.5"x0.131"); 3–3"x0.131" NAILS;
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE, FACE NAIL: 2–8d COMMON (2.5"x0.131"); 2–3"x0.131" NAILS;
21. 1"X8" SHEATHING TO EACH BEARING, FACE NAIL: 3–8d COMMON (2.5"x0.131")
22. WIDER THAN 1"X8" SHEATHING TO EACH BEARING, FACE NAIL: 3–8d COMMON (2.5"x0.131")
23. BUILT–UP CORNER STUDS: 16d COMMON (3.5"x0.162") 24" OC; 3"x0.131" NAILS 16" OC;
24. BUILT–UP GIRDER AND BEAMS, FACE NAIL @ TOP & BOT STAGGERED ON OPP SIDES: 20d COMMON (4"x0.192") 32" OC; 3"x0.131" NAILS @ 24" OC; 3" 14 GA STAPLE @ 24" OC. FACE NAIL @ END & AT EACH SPLICE: 2–20d COMMON (4"x0.192"); 3"x0.131" NAILS;
25. 2" PLANKS, @ EACH BEARING: 16d COMMON (3.5"x0.162")
26. COLLAR TIE TO RAFTER, FACE NAIL: 3–10d COMMON (3"x0.148"); 4–3"x0.131" NAILS;
27. JACK RAFTER TO HIP, TOENAIL: 3–10d COMMON (3"x0.148"); 4–3"x0.131" NAILS;
    FACE NAIL: 2–16d COMMON (3.5"x0.162"); 3–3"x0.131" NAILS;
28. ROOF RAFTER TO 2x RIDGE BEAM, TOENAIL & FACE NAIL: 3–16d COMMON (3.5"x0.162"); 4–3"x0.131" NAILS;
29. JOIST TO BAND JOIST, FACE NAIL: 3–16d COMMON (3.5"x0.162"); 4–3"x0.131" NAILS;
30. LEDGER STRIP, FACE NAIL: 3–16d COMMON (3.5"x0.162"); 4–3"x0.131" NAILS;
31. WOOD STRUCTURAL PANELS & PARTICLEBOARD[d] SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING), 1/2" AND LESS: 6d[c]; 2–3/8"x0.113" NAIL[h] 19/32" TO 3/4": 8d[d]OR 6d; 2–3/8"X0.113" NAIL;[e] 7/8" TO 1": 8d[c] 1–1/8" TO 1–1/4": 10d[d]OR 8d[d]
    SINGLE FLOOR (COMBINATION SUBFLOOR–UNDERLAYMENT TO FRAMING), 3/4" AND LESS: 6d; 7/8" TO 1": 8d[c] 1–1/8" TO 1–1/4": 10d[d]OR 8d[c]
32. PANEL SIDING (TO FRAMING), 1/2" OR LESS: 6d;[f] 5/8": 8d[f]
33. FIBERBOARD SHEATHING,[g] 1/2" #11 GA ROOFING NAIL,[h] 6d COMMON NAIL (2"x0.113"); #16 GA STAPLE;[i] #11 GA ROOFING NAIL[h] 8d COMMON NAIL (2.5"x0.131");
34. INTERIOR PANELING, 1/4": 4d;[j] 3/8": 6d[k]

FOOTNOTES

a. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED
b. NAILS SPACED @ 6" CO AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" 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
c. COMMON OR DEFORMED SHANK (6d: 2"x0.113";8d: 2.5"x0.131"; 10d: 3"x0.148")
d. COMMON (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
e. DEFORMED SHANK (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
f. CORROSION RESISTANT SIDING (6d: 1–7/8"x0.106"; 8d: 2–3/8"x0.128") OR CASING (6d: 2"x0.099"; 8d: 2.5"x0.113") NAIL
g. FASTENERS SPACED 3" CO AT EXT EDGES AND 6" CO AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING SPACING SHALL BE 6" OC ON THE EDGES & 12" OC AT THE INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS
h. CORROSION RESISTANT ROOFING NAILS WITH 7/16"ø HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
i. CORROSION RESISTANT STAPLES NOT PERMITTED
j. CASING (1.5"x0.080") OR FINISH (1.5"X0.072) NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS
k. PANEL SUPPORTS AT 24" CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS
l. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2.5"x0.113") ARE THE MIN REQUIRED FOR WOOD STRUCTURAL PANELS
m. STAPLES NOT PERMITTED
n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" OC AT EDGES, 8" OC AT INTERMEDIATE SUPPORTS
o. FASTENERS SPACED 4" OC AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" OC AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING
p. FASTENERS SPACED 4" OC AT EDGES, 8" AT INTERMEDIATE SUPPORTS

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated
AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DIVISION
CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

WALL FRAMING ELEVATIONS WALL HEIGHT 9'–0" TO 10'–6"

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
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DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER EVAN J. OMER No. S 44371 12/31 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
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3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

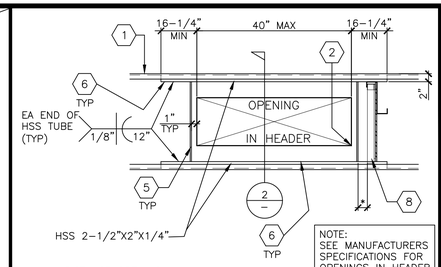
S3.2

NOT USED

11

NOT USED

6



* = DISTANCE OPENING STIFFENER MAY BE 1/8"+

REINFORCED PENETRATIONS IN HEADER

SCALE: 1" = 1'-0"

1

KEY NOTES

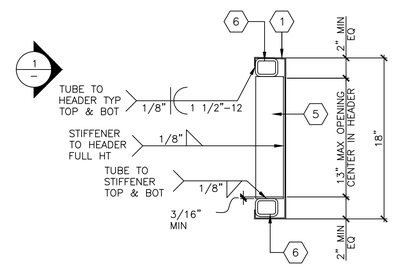
1. ROOF HEADER/BEAM (SEE ROOF STRUCTURAL FRAMING PLAN)
2. CUT CORNERS WITH 1/4" RADIUS
3. COLUMN (SEE STRUCTURAL BUILDING SECTION SHEETS)
4. STUB COLUMN (SEE STRUCTURAL BUILDING SECTION SHEETS)
5. 1/4" STIFFENER PLATE
6. HSS 2-1/2" X 2" X 1/4" TUBE
7. PERIMETER FLOOR BEAM (SEE STRUCTURAL FLOOR FRAMING SHEETS)
8. STEEL ANGLE BRACE AT CENTER OF ROOF HEADER

NOT USED

12

NOT USED

7



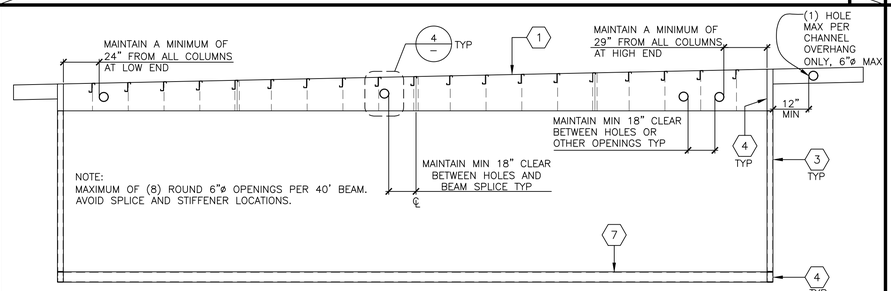
OPENING IN HEADER SECTION

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

2

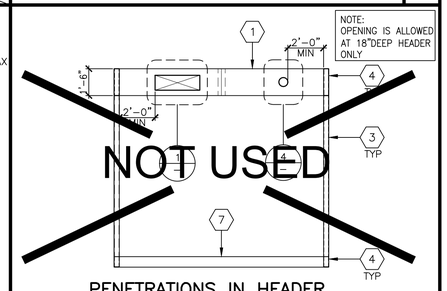
NOT USED

13



PENETRATIONS IN BEAM WITHOUT REINFORCEMENT (MONO SLOPE)

8

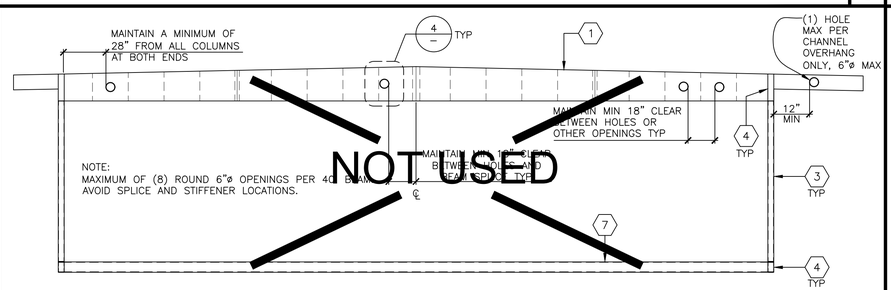


PENETRATIONS IN HEADER (REINFORCED & NON REINFORCED)

3

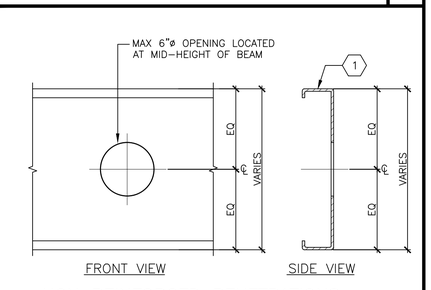
NOT USED

14



PENETRATIONS IN BEAM WITHOUT REINFORCEMENT (DUAL SLOPE)

9



NON REINFORCED PENETRATIONS IN HEADER

4

NOT USED

15

NOT USED

10

NOT USED

5

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APP: 02-122839 INC:
REVIEWED FOR
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DATE: 03/07/2025

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PROJECT NAME:

SHEET TITLE:

ALLOWABLE
HEADER PENETRATIONS

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN J. OMER · No. S 4437 · Exp. 12/31/25 · STRUCTURAL · STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

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PROJECT NO.:	00-0000
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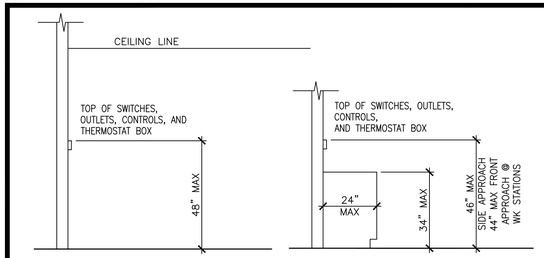
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

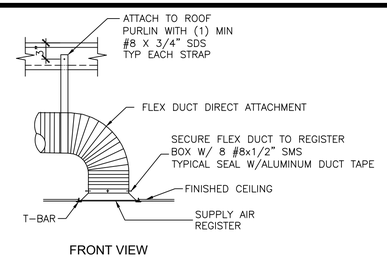
S4.0



MOUNTING HEIGHT DETAIL

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

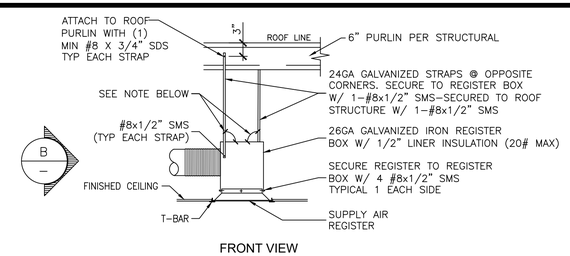
1



FRONT VIEW

OPTIONAL FLEX DIRECT 5'-0" MAX

NOTE:
PER ENERGY CODE 120.4 AND CMC 603.4, FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FT IN LENGTH FOR EA. DUCT RUN.



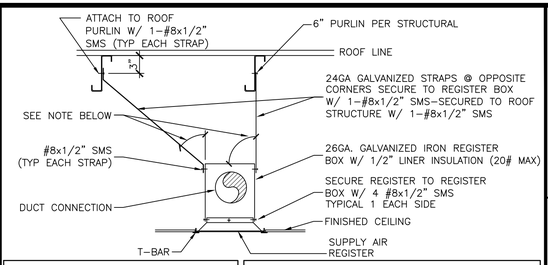
FRONT VIEW

SECTOION AT SUPPLY/REGISTER

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

NOTE:
STRAP ANGLE VARIANCE ALLOWED DUE TO LOCATION OF ROOF FRAMING MEMBERS ABOVE

A



NOTE: STRAP ANGLE VARIANCE ALLOWED DUE TO LOCATION OF ROOF FRAMING MEMBERS ABOVE

NOTE: PER ENERGY CODE SECTION 120.4 ALL SUPPLY DUCTS AND PLENUMS SHALL BE INSULATED TO A MINIMUM R-4.2

SIDE VIEW AT SUPPLY/REGISTER

SCALE: 1"=1'-0"

B

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PROJECT NAME:

SHEET TITLE:

MECHANICAL DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

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DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4437 STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

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4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

M0.0

TABLE 140.4-G

AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

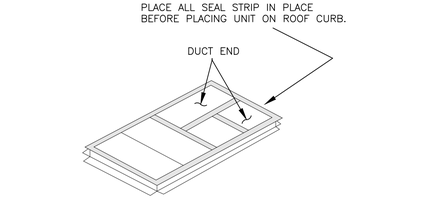
Device Typea	Climate Zones	Required High Limit (Economizer Off When):	
		Equationb	Description
Fixed Dry Bulb	1, 3, 5, 11-16	TOA > 75°F	Outdoor air temperature exceeds 75°F
	2, 4, 10	TOA > 73°F	Outdoor air temperature exceeds 73°F
	6, 8, 9	TOA > 71°F	Outdoor air temperature exceeds 71°F
	7	TOA > 69°F	Outdoor air temperature exceeds 69°F
Differential Dry Bulb	1, 3, 5, 11-16	TOA > TRA°F	Outdoor air temperature exceeds return air temperature
	2, 4, 10	TOA > TRA-2°F	Outdoor air temperature exceeds return air temperature minus 2°F
	6, 8, 9	TOA > TRA-4°F	Outdoor air temperature exceeds return air temperature minus 4°F
	7	TOA > TRA-6°F	Outdoor air temperature exceeds return air temperature minus 6°F
Fixed Enthalpyc + Fixed Drybulb	All	hOA > 28 Btu/lbe or TOA > 75°F	Outdoor air enthalpy exceeds 28 Btu/lb of dry aire 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.

2

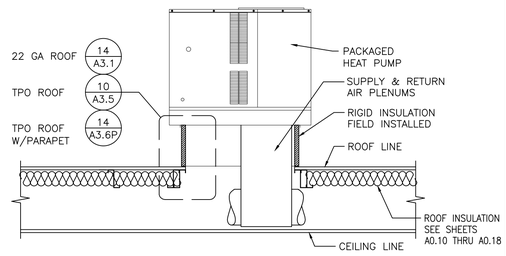


* = REFER TO MANUFACTURER'S INSTRUCTIONS

HEAT PUMP CURB ISO VIEW

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

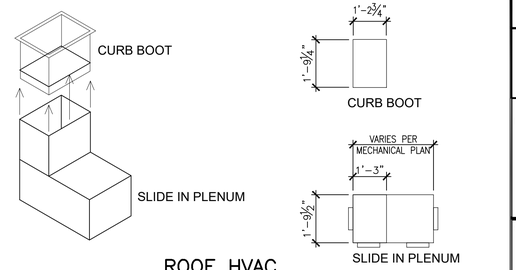
C



SECTION THRU ROOF TOP HEAT PUMP

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

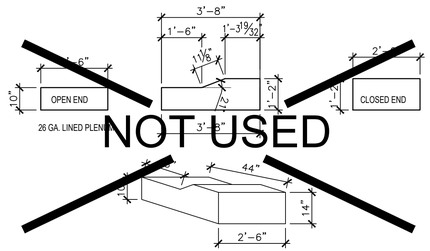
D



ROOF HVAC SUPPLY PLUNUM

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

E



NOT USED

WALL HVAC SUPPLY PLUNUM

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

F

NOT USED

SEQUENCE OF OPERATIONS

EACH CLASSROOM SHALL HAVE A CO2 MONITOR.
UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED.

FULL CLASSROOM
CO2 CONCENTRATIONS SHALL BE MAINTAINED AT OR LESS THAN 1,100 PPM.
WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM (ADJ.), ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION.
AS THE CO2 LEVEL IN THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED.
AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE.

EMPTY CLASSROOM/LOW OCCUPANCY
CO2 CONCENTRATIONS SHALL BE MAINTAINED AT OR LESS THAN 1,100 PPM.
WHEN CO2 IS BELOW 900 PPM THE ECONOMIZER SHALL DECREASE PROPORTIONALLY UNTIL THE DCV MINIMUM VENTILATION SETTING IS REACHED.
MINIMUM VENTILATION SETTING IS SPECIFIED ON ATTACHMENT 3 (.15 X SF).

NOTES

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 THRU 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 THAT 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANER 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 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 ATTACHAMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED TO THE RIGHT. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD 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 THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

LEGEND AND ABBREVIATIONS

- SUPPLY DUCT
- RETURN DUCT
- 12" NUMBER INDICATES DUCT SIZE
- RETURN REGISTER
- RETURN REGISTER
- SUPPLY REGISTER
- EXHAUST FAN
- 12"x12" HOLE THRU BEAM
- 16"x10" HOLE THRU BEAM
- FIRE SMOKE DAMPER "POTTORF": FSD-125R
- COMBINATION SMOKE FIRE DAMPER "POTTORF": FSD-141
- CD CONDENSTATE DRAIN
- DIRECTIONAL AIR FLOW
- BAROMETRIC RELIEF DAMPER THRU WALL
- UCD UNDERCUT DOOR
- R BAROMETRIC RELIEF DAMPER THRU ROOF
- T THERMOSTAT VENSTAR T4900SCH TOP OF THERMOSTAT @ +48" AFF
- Co2 Co2 SENSOR ANALOX AIR QUALITY GUARDIAN Co2 TRANSMETER BARD S8403-096 BETWEEN 3'-0" TO 6'-0" AFF
- " THE CO2 SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM 15-MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION, PER 5.506.3(4)"
- ECO DEMAND CONTROL VENTILATION ECONOMIZER HONEYWELL JADE-W7220
- DAMPER
- EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION

E	ELECTRICAL LOCATION (PROVIDE WP BOX)
G	GAS LOCATION
RAG	RETURN AIR GRILL
EP	EXTRA PURLIN
RL	RIDGE LINE

NOT USED

MATERIAL SCHEDULE

SUPPLY AIR PLENUM: GALV. IRON SHEETS W/ 1/2" LINER INSULATION

INTERIOR DUCTWORK: FLEX DUCT CLASS 1 UL-181

REGISTER BOXES: GALV IRON SHEETS W/ 1/2" LINER INSULATION

SUPPLY AIR REGISTERS: TRUAIR 1400CB SERIES

RETURN AIR GRILLES: TRUAIR 1444RG SERIES

THERMOSTAT: WHITE RODGERS '1F92' SERIES

ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" SMS - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV STRAPS AT OPPOSITE CORNERS

FLAME SPREAD LESS THAN 25 SMOKE DEVELOPED RATING LESS THAN 50

GENERAL NOTES:

WHEN AN INTERIOR ROOM(S) ARE ADDED AND COMBINED A/C SYSTEM EXCEEDS 2000 CFM, AN AUTOMATIC SHUT DOWN OF A/C UNITS MUST BE PROVIDED AND SHOWN ON THIS PLAN SET AND COORDINATED WITH THE ARCHITECT'S FIRE ALARM SYSTEM DRAWINGS PER CMC SECTION 609

PER ENERGY CODE 120.1(D) THERMOSTAT SHALL BE PROGRAMED SO THAT THE AIR HANDLER FAN WILL RUN CONTINUALLY DURING OCCUPIED TIMES.
PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

PER ENERGY CODE NOTE SECTION 110.2(B). HEAT PUMPS USING SUPPLEMENTARY ELECTRIC RESISTANCE HEATING MUST USE A THERMOSTAT DESIGNED FOR HEAT PUMPS AND THE THERMOSTAT SHALL BE PROGRAMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING.

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.

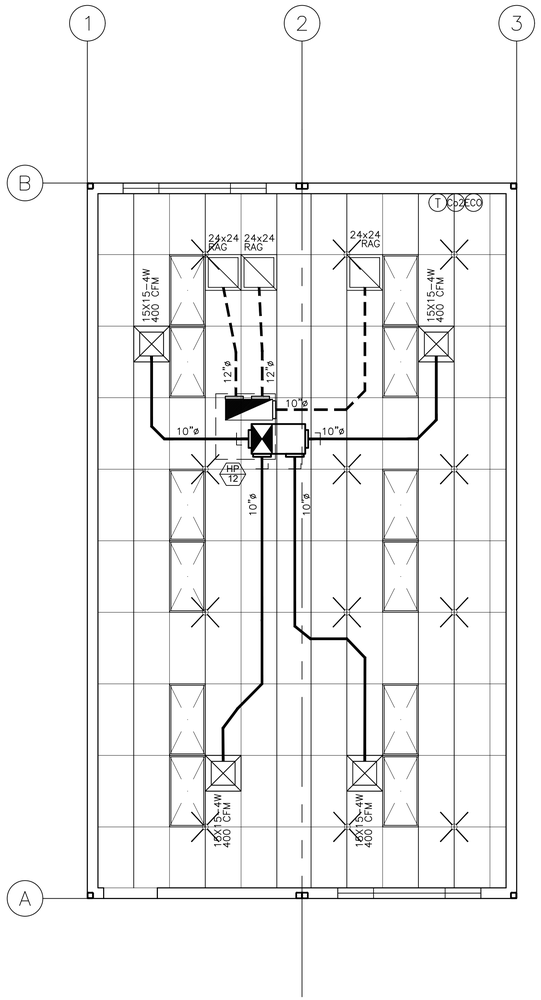
LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT'S 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 BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

PER ENERGY CODE SECTION 120.4 FOR THE SUPPLY AND RETURN:
ALL JOINTS AND SEAMS IN THE DUCT SYSTEM SHALL BE SEALED USING UL 181 TAPE OR MASTIC. HVAC EQUIPMENT SHALL BE SEALED TO THE RETURN AND SUPPLY PLENUM, DUCTS SHALL BE SEALED TO THE RETURN AND SUPPLY PLENUM, DUCTS SHALL BE SEALED TO THE BOOTS.

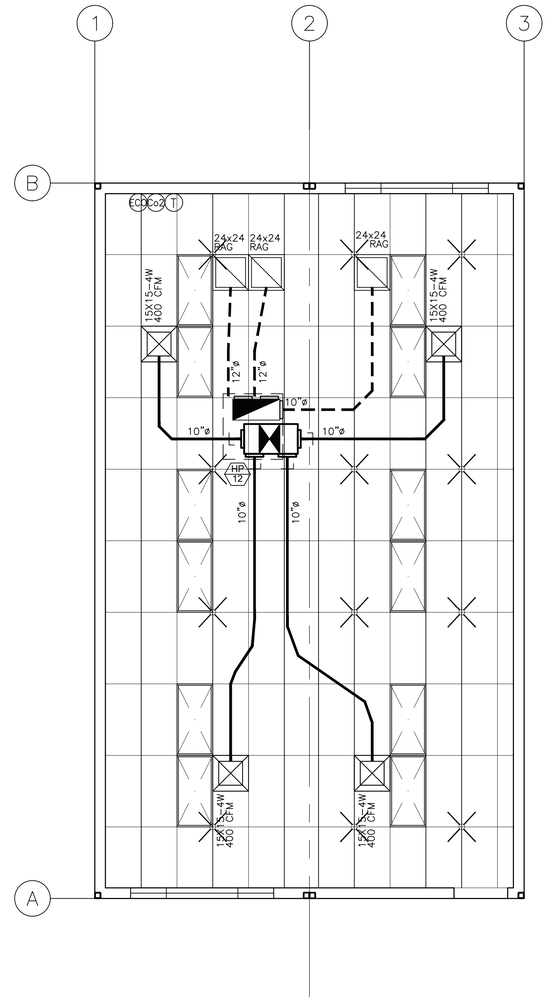
ALL ECONOMIZERS MUST BE PROGRAMMED IN THE FIELD BY THE HVAC CONTRACTOR TO THE TEMPERATURE IN TABLE 140.4-G. SEE DETAIL 2

ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.



AIR CONDITIONG PLAN VIEW (OPTION B)

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



AIR CONDITIONG PLAN VIEW (OPTION A)

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

PROJECT SPECIFIC (CHECK ONE):

☐ STANDARD DESIGN AS SHOWN

☐ SOLATUBE OPTION. REFERENCE SHEET A11.0

NOTES:

1. REFER TO SHEET M0.0 FOR DETAILS AND LEGEND. SHEET M0.1 FOR SCHEDULES
2. BLDG 'A' SHOWN. BLDG 'B' OPPOSITE HAND

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

AURORA DESIGNS MODTECH Designs MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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ATWATER, CA 95301
PHONE: (209) 676-8029
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WEBSITE: WWW.GDVI.NET

SOUTHERN CALIFORNIA DIVISON
1860 CHICAGO AVE., SUITE I-7
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PROJECT NAME:

SHEET TITLE:

MECHANICAL PLAN
ROOF MOUNT 24'X40'

REFER TO M1.1-PS, M1.2-PS, M1.3-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMEARA
No. S 4497
Exp 12/31/25
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

M2.1

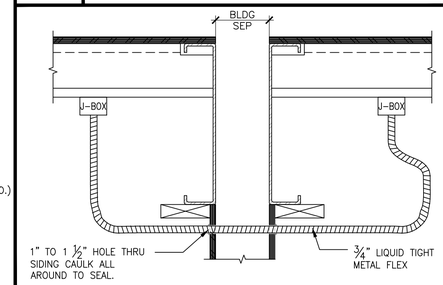
LIGHTING LEGEND & SYMBOLS

SYMBOL	DESCRIPTION
	2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE WITH INTEGRAL EMERGENCY BATTERY WITH 90MIN BATTERY BACK UP PACK PS1055LCP. LITHONIA #2GTL4 4400LM LP840 4000K 120V, 34.1W, 0–10V DIMMING DRIVER SUITABLE FOR DAMP LOCATION
	2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE LITHONIA #2GTL4 4400LM LP840 4000K 120V, 34.1W, 0–10V DIMMING DRIVER SUITABLE FOR DAMP LOCATION
	10"x48" LED LOW PROFILE CURVED BASKET WRAPAROUND SURFACE MOUNT LIGHT FIXTURE LITHONIA #LBL4 LP840 4000LM 5000K 120V, 32W, EL7L 700 NOMINAL LUMEN BATTERY PACK
	10"x48" LED LOW PROFILE CURVED BASKET WRAPAROUND SURFACE MOUNT LIGHT FIXTURE LITHONIA #LBL4 LP840 4000LM 5000K 120V, 32W
	2'x2' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE WITH INTEGRAL EMERGENCY BATTERY WITH 90MIN BATTERY BACK UP PACK PS1055LCP LITHONIA #2GTL2 3300LM LP840 4000K 120V, 32.3W, 0–10V DIMMING DRIVER
	2'x2' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE LITHONIA #2GTL2 3300LM LP840 4000K 120V, 32.3W, 0–10V DIMMING DRIVER
	2'x4' LED RECESSED WET LOCATION TROFFER LIGHT FIXTURE LITHONIA #WRTL F L48 5000LM OAW AFL MVOLT GZ1 40K 80CRI PS1050 EMERGENCY BATTERY PACK WH 120V, 38.7W, 53 LBS, WHEN HATCHED REPRESENTS BATTERY BACKUP UNIT.
	1'x4' LED RECESSED WET LOCATION TROFFER LIGHT FIXTURE LITHONIA #WRTL F L48 5000LM OAW AFL MVOLT GZ1 40K 80CRI PS1050 EMERGENCY BATTERY PACK WH 120V, 44W, 36 LBS, WHEN HATCHED REPRESENTS BATTERY BACKUP UNIT.
	2'x2' LED RECESSED WET LOCATION TROFFER LIGHT FIXTURE LITHONIA #WRTL F L48 5000LM OAW AFL MVOLT GZ1 40K 80CRI PS1050 EMERGENCY BATTERY PACK WH 120V, 38.7W, 36 LBS, WHEN HATCHED REPRESENTS BATTERY BACKUP UNIT.
	RECESSED DOWN LIGHT RECESSED TROFFER LIGHT FIXTURE 120V, 10W, DIMMABLE DOWN TO 10% OF FULL LIGHT
	AC ELECTRONICS AC106 37W 120/277V
	EXTERIOR WALL MOUNT LED WALLPACK FIXTURE WITH 90 MIN EMERGENCY BACK UP PS1055LCP
	SURFACE MOUNTED CEILING DOUBLE FACE EXIT SIGN (UNIVERSA ARROWS INDICATED AS NEEDED)
	SURFACE MOUNTED CEILING SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
EXIT	EXIT WITH 90 MIN BATTERY BACKUP LITHONIA LHQM–LED–R–HO RO 4.3 WATTS UL DAMP LOCATION LISTED +6" ABOVE FLOOR (AS APPLICABLE/ SECT. 1013.7)
EXIT	EXIT/ EMERGENCY WITH 90 MIN BATTERY BACKUP LITHONIA LHQM–LED–R–HO 4.3 WATTS UL DAMP LOCATION LISTED
	LITHONIA QUANTUM LED EMERGENCY LIGHT ELM2LF–FIXED OPTICS 4.8W. ADD WPVS ACCESORY FOR DAMP LOCATION

POWER LEGEND & SYMBOLS

SYMBOL	DESCRIPTION
$	DUPLEX RECEPTACLE–SPLIT WIRED,SWITCHED +15" AFF BOT OF BOX (U.N.O.)
$	QUADPLEX RECEPTACLE–SPLIT WIRED,SWITCHED +15" AFF BOT OF BOX (U.N.O.)
C	DUPLEX RECEPTACLE CELING MOUNTED
DED	DEDICATED DUPLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.)
	DUPLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.) R=RECESSED
	DUPLEX FLOOR RECEPTACLE OUTLET
	QUAD–PLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.)
	QUAD–PLEX FLOOR RECEPTACLE OUTLET
GFCI	DUPLEX RECEPTACLE/ GFCI +15" AFF BOT OF BOX (U.N.O.)
	SINGLE CLOCK RECEPT +8'–0"
	EXHAUST FAN, 100 CFM (156 WATTS) MIN FOR SINGLE OCCUPANT
	EXHAUST FAN, 350 CFM (180 WATTS) MIN FOR MULTIPLE OCCUPANTS
$	TAMPER–RESISTANT KEY TOGGLE SWITCH LEVITON M1221–L
$	DECORA SINGLE SWITCH +48" AFF TOP OF BOX (U.N.O.)
$3	DECORA 3–WAY SWITCH +48" AFF TOP OF BOX (U.N.O.) LEVITON 5623–2W 120/277V
$4	DECORA 4–WAY SWITCH +48" AFF TOP OF BOX (U.N.O.)
DIM2 $	OCCUPANCY SENSOR DIMMER SWITCH LEVITON OSD10–I0W +48" AFF TOP OF BOX (U.N.O.)
DIM $	DIMMER SWITCH +48" AFF TOP OF BOX (U.N.O.) LEVITON DS710–10Z 120/277V
occ1 $	DECORA WALL SWITCH MULTI–TECHNOLOGY OCCUPANCY SENSOR LEVITON OSSMT 3X3 OSSMT–GDW
occ2 $	DECORA WALL SWITCH MULTI–TECHNOLOGY OCCUPANCY SENSOR LEVITON OSSMD
PP1	LEVITON POWER PACK OPP20–D2 120/230/277V
PP2	LEVITON POWER PACK OPP20–RD4 120/230/277V
TC	TIME CLOCK (EXTERIOR LIGHTS) +48" AFF TOP OF BOX (U.N.O.)
PC	PHOTO CONTROL SENSOR LEVITON ODCOP–DOW
OS	OCCUPANCY SENSOR CEILING MOUNTED (LIGHTING) ☐LEVITON OSC10–MOW ☐ LEVITON OSC20–MOW
OS	OCCUPANCY SENSOR (LIGHTING) WALL MOUNTED +48" AFF TOP OF BOX (U.N.O.) LEVITON ODS15–IDW

SYMBOL	DESCRIPTION
F	DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED 'F' INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURES DRAWINGS.
	PULL STATION J–BOX W/ 3/4"ø CONDUIT. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	EXT. HORN J–BOX W/ 3/4"ø CONDUIT AT +90" A.F.F.
	SINGLE PLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
WP	WEATHERPROOF DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL.
	RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE (20 AMPS, 125 VOLTS)
	HORN/STROBE LIGHT + 80" AFF
S	SMOKE DETECTOR @ CEILING
H	HEAT DETECTOR IN ATTIC SPACE
J	WATER PROOF JUNCTION BOX WITH COVER
J	JUNCTION BOX
M	OCCUPANCY MOTION SENSOR, FLUSH CEILING MOUNTED ☐LEVITON OSC10–MOW ☐ LEVITON OSC20–MOW
	BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (SURFACE MOUNTED)
	BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (RECESSED MOUNTED)
	MANUAL DIMMING WITH COMBINED BUILT–IN OCCUPANCY SENSOR: LUTRON 'MAESTRO' MS–Z101. THIS IS SWITCH IS APPLICABLE FOR DIMMING LED BULB, CFL BULB, INCANDESCENT AND DIMMABLE FLUORESCENT BALLAST WITH MAX 20 FT RANGE FROM WALL. REFER TO CATALOG CUT SHEET FOR ADDITIONAL INFORMATION. INSTALL PER MOUNTING HEIGHT DETAIL UNO
*	DIMMING OCCUPANCY SENSOR: LUTRON 'MAESTRO' MS–Z101. THIS IS SWITCH IS APPLICABLE FOR DIMMING LED BULB, CFL BULB, INCANDESCENT AND DIMMABLE FLUORESCENT BALLAST. REFER TO CATALOG CUT SHEET FOR ADDITIONAL INFORMATION. INSTALL PER MOUNTING HEIGHT DETAIL UNO



CONDUIT CONNECTION AT BLDG SEPARATION

SCALE: 1 1/2"=1'–0"

5

LOW VOLTAGE LEGEND & SYMBOLS

SYMBOL	DESCRIPTION
J	JUNCTION BOX
S	OUTDOOR WEATHER PROOF SPEAKER
	FLOOR DATA BOX W/ POWER OUTLET
TV	TV OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
IC	INTERCOM OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	SECURITY SYSTEM DOOR SWITCH, MOUNTED AT TOP OF DOOR JAMB
SP	CEILING MOUNTED SPEAKER
	HOME RUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE
	FLOOR DATA BOX
	DATA OUTLET +15" AFF BOT OF BOX (U.N.O.)
	WALL PHONE OUTLET +48 TOP OF BOX (U.N.O.)
	DATA/VOICE OUTLET +15" AFF BOT OF BOX (U.N.O.)
	CEILING MOUNTED DATA BOX

NOTE: SEE DETAIL 2 FOR MOUNTING HEIGHTS

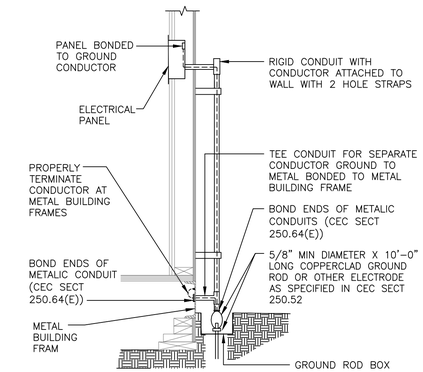
FIRE ALARM NOTES

1. FIRE ALARM SYSTEM SHALL COMPLY WITH CBC CHAPTER 9 SECTION 907.2.3& TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE,
2. INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN. THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, MUST BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND STATE FIRE MARSHALL, PER CFC SECTION 907.1.2 & DSA GUIDELINES GL–2
3. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A "RED" LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS, NFPA 72 SECTION 10.6.5.2, 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4 & 10.6.5.4
4. UPON COMPLETION OF THE INSTALLATION OF THE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
5. ALARMS, SECTION 907, CALIFORNIA FIRE CODE. IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE. LOCATE PER CFC 907.5.2.3 & NFPA 72 18.5.3.1
6. EMERGENCY VOICE COMMUNICATION PER CBC 907.2.3

GENERAL NOTES

1. ALL FIRE ALARM SHOULD BE HOMERUN TO SINGLE POINT OF CONNECTION W/ 3/4" CO (UNO)
2. ALL LOW VOLTAGE CONDUIT RUNS ARE STUBBED FROM OUTLET BOX TO ATTIC SPACE (UNO). USE 1"ø CO FOR ALL OUTLET STUBS (UNO)
3. ALL WIRING & DEVICES FOR LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEMS ARE BY OTHERS
4. VERIFY ALL FIRE ALARM DEVICE LOCATION W/ AOR'S ELECTRICAL DWG'S FOR PROJECT SPECIFIC DESIGN
5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND SCOPE OF WORK. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES ETC WITH CABINETS, FURNITURE, EQUIPMENT ETC, TO AVOID CONFLICT
7. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, T–STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED
8. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R
9. ALL ELECTRICAL POWER, LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM
10. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
11. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTRACTORS, ETC), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:
    a. 125A OR LESS : 60°C OR MORE
    b. MORE THAN 125A : 75°C OR MORE
12. REFER TO ENERGY CODE TABLE 140.6–A FOR LIGHTING CONTROL TYPES
13. UPON SITE PLACEMENT OR SITE CONSTRUCTION. THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.
14. ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10–103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.A

* FOR EACH PROJECT SPECIFIC, VERIFY IF DIMMABLE BALLAST ARE APPLICABLE PER THE USE OF LIGHT FOR EACH OCCUPANCY OR ROOM. SWITCH SHALL REQUIRE A DIMMING FEATURE



(REFER TO CEC SECTION 250 FOR THE ITEMS BELOW AND DSA IR E–1)

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND 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), EXCEPT FIRE SPRINKLER SYSTEM PIPING.
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN SIX FEET AWAY (CEC 250.53 (A) & (B). ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL GROUND RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDING ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER [CEC 250.52 (A) (3)]
7. OTHER GROUNDING METHODS IDENTIFIED IN CEC 250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE

ACCEPTABLE GROUNDING DETAIL

NOT BY BUILDING MANUFACTURER

1

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

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CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

ELECTRICAL DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4427 CIVIL STRUCTURAL STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

1	-
2	-
3	-
4	-

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

E0.0

NOTES

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 THRU 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 THAT 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANER 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 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 ATTACHAMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED TO THE RIGHT. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD 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 THE APPLICABLE OSHPD PRE–APPROVAL (OPM #) #_____.

NOT USED

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.

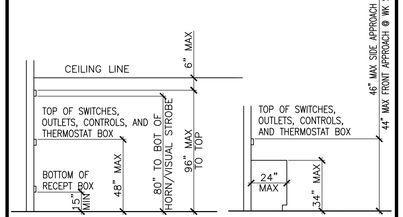
SEQUENCE:

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.

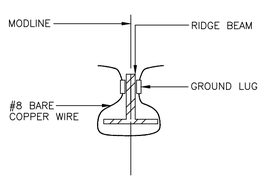
OCCUPANT EXITS:

ALL LIGHTS AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACANCY.



MOUNTING HEIGHT DETAIL

2



MODULE BONDING

3

GENERAL NOTES

1. SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
2. PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1008.3 LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4/A8.1 OR 10/A8.1 FOR ATTACHMENT.

PROJECT SPECIFIC (CHECK ONE):
- ☐ STANDARD DESIGN AS SHOWN
- ☐ SOLATUBE OPTION. REFERENCE SHEET A11.0

LOAD CENTER SCHEDULE — PANEL A

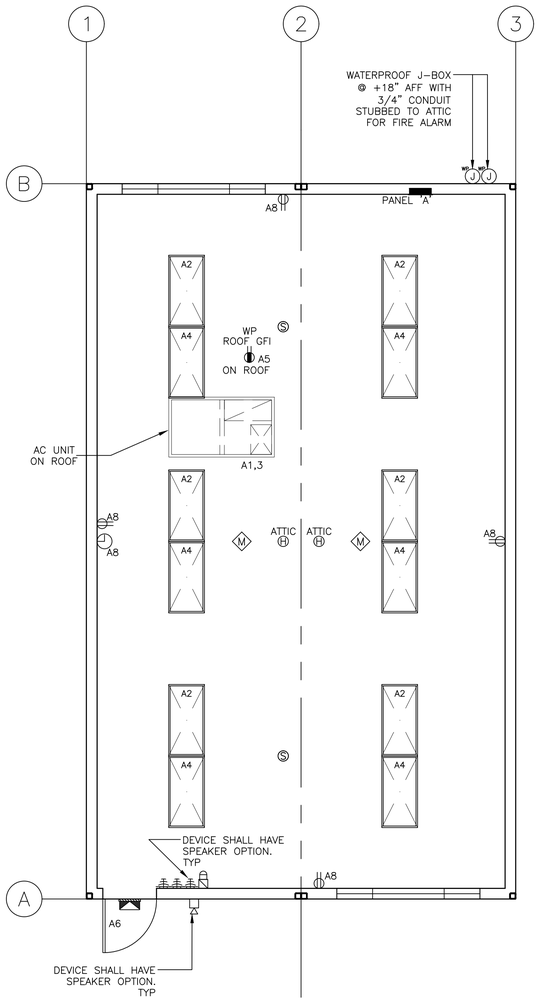
VOLTS 120/240 — PHASE 1 — BUSS 100 A — FEED WALL
MAIN BRKR 100 A — WIRE 3 — MOUNT RECESSED — LOCATION INTERIOR

DESCRIPTION	WATTS Aø	WATTS Bø	WIRE SIZE	BREAKER	POLE	CKT. NO.	A	B	CKT. NO.	POLE	BREAKER	WIRE SIZE	WATTS Aø	WATTS Bø	DESCRIPTION
A/C	3807	–	6	50	2	1	●		2	1	20	12	207	–	LIGHTS
A/C	–	3807	–	–	–	3		●	4	1	20	12	–	207	LIGHTS
EXT ROOF RECEPT	180	–	12	20	1	5	●		6	1	20	12	37	–	EXTERIOR LIGHTS
–	–	–	–	–	–	7		●	8	1	20	12	–	900	RECEPT
–	–	–	–	–	–	9	●		10	1	20	12	180	–	*F.A.C.P.
–	–	–	–	–	–	11		●	12	–	–	–	–	–	–
SUB TOTAL	3987	3807											424	1107	SUB TOTAL

LOAD
A 4,411
B 4,914
TOTAL 9,325 x .25=2,331 (TOTAL 11,656)

TOTAL LOAD
MAX DEMAND 49 AMPS

*LABEL & LOCK ON DEVICE



OPTION 'B' (LEFT HAND)

ELECTRICAL PLAN – ROOF MOUNTED HVAC

SCALE: 1/4" = 1'–0"

GENERAL NOTES

1. SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
2. PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1008.3 LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
3. CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
4. SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
5. WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS 4/A8.1 OR 10/A8.1 FOR ATTACHMENT.

PROJECT SPECIFIC (CHECK ONE):
- ☐ STANDARD DESIGN AS SHOWN
- ☐ SOLATUBE OPTION. REFERENCE SHEET A11.0

LOAD CENTER SCHEDULE — PANEL A

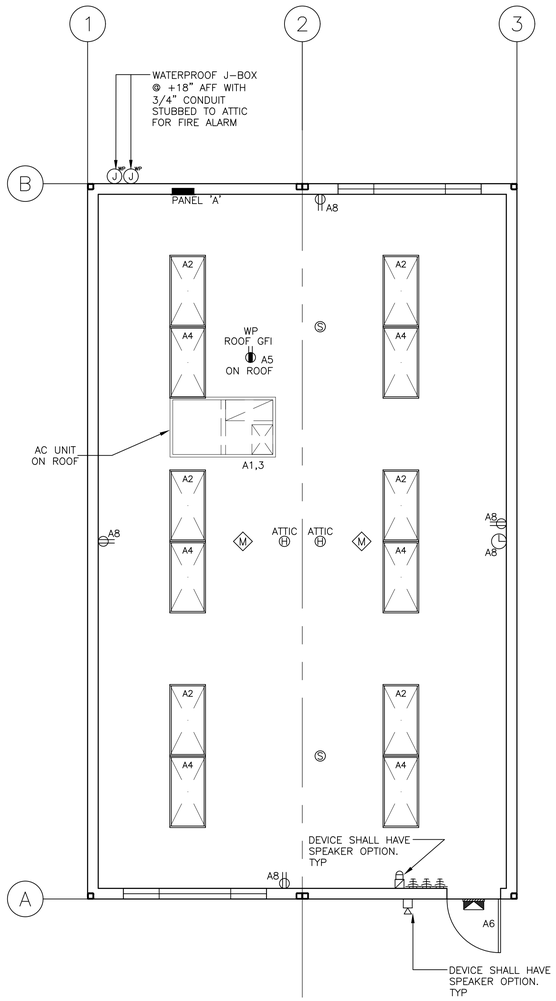
VOLTS 120/240 — PHASE 1 — BUSS 100 A — FEED WALL
MAIN BRKR 100 A — WIRE 3 — MOUNT RECESSED — LOCATION INTERIOR

DESCRIPTION	WATTS Aø	WATTS Bø	WIRE SIZE	BREAKER	POLE	CKT. NO.	A	B	CKT. NO.	POLE	BREAKER	WIRE SIZE	WATTS Aø	WATTS Bø	DESCRIPTION
A/C	3807	–	6	50	2	1	●		2	1	20	12	207	–	LIGHTS
A/C	–	3807	–	–	–	3		●	4	1	20	12	–	207	LIGHTS
EXT ROOF RECEPT	180	–	12	20	1	5	●		6	1	20	12	37	–	EXTERIOR LIGHTS
–	–	–	–	–	–	7		●	8	1	20	12	–	900	RECEPT
–	–	–	–	–	–	9	●		10	1	20	12	180	–	*F.A.C.P.
–	–	–	–	–	–	11		●	12	–	–	–	–	–	–
SUB TOTAL	3987	3807											424	1107	SUB TOTAL

LOAD
A 3,948
B 4,026
TOTAL 9,325 x .25=2,331 (TOTAL 11,656)

TOTAL LOAD
MAX DEMAND 49 AMPS

*LABEL & LOCK ON DEVICE



OPTION 'A' (RIGHT HAND)

ELECTRICAL PLAN – ROOF MOUNTED HVAC

SCALE: 1/4" = 1'–0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN 24'X40' (ROOF MOUNTED HVAC)

REFER TO E1.0-PS, E1.1-PS, E1.2-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER — RYAN J. OMER — No. S-4437 — STRUCTURAL — STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

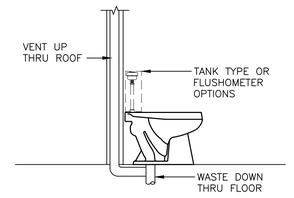
E1.1

NOT USED

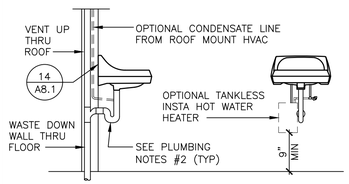
7

NOT USED

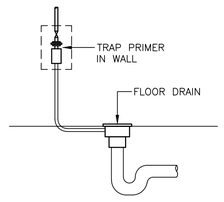
4



TYPICAL WATER CLOSET PIPING ELEVATIONS 1



TYPICAL LAVATORY PIPING 2



TRAP PRIMER TO FLOOR DRAIN 3

NOTES

MEP COMPONENT ANCHORAGE NOTE

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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 THAT 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANER 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 THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

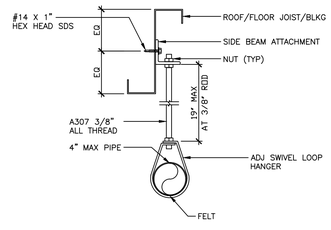
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHAMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED TO THE RIGHT. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD 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.

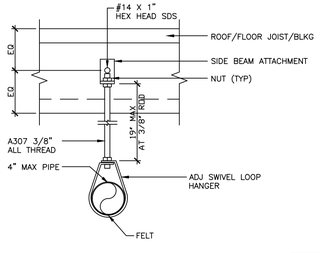
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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 THE APPLICABLE OSHPD PRE–APPROVAL (OPM #) #_____.



PLUMBING PIPE HANGER SUPPORT
SCALE: 3" = 1'–0" 5



PLUMBING PIPE HANGER SUPPORT
SCALE: 3" = 1'–0" 6

GENERAL PLUMBING SPECIFICATIONS

A. PLUMBING EQUIPMENT, FIXTURE AND ACCESSORIES: FURNISH AND INSTALL ALL PIPING, VALVES, VENTS, STOPS AND TRAPS REQUIRED TO CONNECT ALL FIXTURES AND EQUIPMENT PROVIDE ALL ELECTRICAL CONNECTIONS AS REQUIRED

B. MATERIALS AND WORKMANSHIP: ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADE SPECIFIED WORKMANSHIP SHALL BE EQUAL OF BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT

C. THE DETAILS ON THIS SHEET ONLY ILLUSTRATE THE SPECIFIC REQUIREMENTS FOR INSTALLING THE FIXTURES AND THE ACCESSORIES SHOWN **INSTALL FIXTURES PER MFR'S INSTRUCTIONS** SEE PROJECT SPECIFICATIONS FOR THE ACCESSORIES AND FIXTURES THAT APPLY TO THIS PROJECT.

D. PIPE INSULATION: ALL WATER HEATERS TO HAVE R7.7 ON HOT AND COLD LINES FOR THE FIRST 8 FEET FROM WATER HEATER (TANK TYPE AND INSTANT). INCLUDE PIPE INSULATION FOR RECIRCULATING LINES.

PLUMBING NOTES

1. FAUCET CONTROLS & OPERATING MECHANISMS: SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS LEVER OPERATED, PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
2. ALL WATER & DRAIN PIPES ACCESSIBLE UNDER LAVATORIES AND SINKS: SHALL BE INSULATED (CLASS I FLAME SPREAD INDEX 0–25) OR OTHERWISE COVERED THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES.
3. ALL VENTS TO ROOF AND VENT RISER CONNECTIONS TO BE OFFSET ABOVE CEILING FROM WALLS IN ORDER TO PREVENT PENETRATION THROUGH TOP PLATES.
4. ALL WASTE DROPS IN WALLS TO BE OFFSET PRIOR TO WALL BOTTOM PLATES.
5. FOR ALLOWABLE CUTTING/NOTCHING/BORED HOLES IN 2X WALL STUDS AND JOISTS, SEE TYPICAL DETAILS ON STRUCTURAL SHEETS
6. TOILET CURB ON FLOORS: FOR TOILET ROOMS WITH MORE THAN TWO (2) FIXTURES IN RELOCATABLE BUILDINGS, PROVIDE A CONTINUOUS VINYL FLOORING, ARMSTRONG "RHINO 90402" OR EQUAL WITH FULLY SEALED JOINTS VINYL FLOORING TO EXTEND A MIN OF SIX (6) INCHES UP THE STUD WALL FROM THE FINISH FLOOR LEVEL.
7. ALL INTERIOR COLD AND HOT WATER IS OVERHEAD PIPING EXCEPT AT INSIDE WALLS UNLESS OTHERWISE NOTED.
8. ALL DRAIN AND SEWER FITTINGS BELOW FLOOR LINE SITE INSTALLED
9. SEWER/WATER STUB OUTS: SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHOULD BE EASILY ACCESSIBLE FOR FUTURE RELOCATION STUB OUT HEIGHT SHOULD BE COORDINATED WITH BUILDING MFR AND SITE CONTRACTOR/OWNER.
10. WHEN THE TOP OF THE TOILET TANK OR VALVE OBSTRUCTS THE REAR GRAB BAR, THE PLACEMENT OF THE BAR MAYBE LOCATED AT 36" MAX AFF TO THE TOP AND MUST BE CLEAR 1–1/2" FROM THE BAR TO THE TANK OR VALVE PER SECT 11B–609.3, THE SIDE GRAB BAR SHALL BE MOUNTED AT THE SAME HEIGHT AS THE REAR GRAB BAR.
11. TOILET SEAT TO BE 2" MAX IN THICKNESS.
12. ALL DIMENSIONS ON THIS SHEET ARE TO FACE OF FINISH.
13. FOR ALL WALL HUNG WATER CLOSETS, USE 'JOSAM COMPANY' CLOSET CARRIERS, MODEL #12674 (LEFT HAND) OR #12694 (BACK TO BACK) OR #12704 (VERTICAL W/ LEFT HAND VENT) OR #12724 (VERTICAL BACK TO BACK)

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION ***ALTERNATE/OPTIONAL	ACCESSIBLE FOR	WASTE	VENT	CW	HW
WC 1 ***	BOWL: 'KOHLER' – MODEL# K–4325, KINGSTON, WALL HUNG FLUSHOMETER. SEE PLUMB NOTE #13 FOR CARRIER INFO VALVE: 'SLOAN' – MODEL# , 111–1.28GPF FLUSHOMETER SEAT: 'BEMIS' – MODEL# 1955 SSCT, TOILET SEAT	ADULT AGES 12+ OR ELEM AGES 9–12	3"	2"	1"	–
WC 2 ***	BOWL: 'KOHLER' – MODEL# K–96064, PRIMARY, FLOOR MOUNT FLUSHOMETER VALVE: 'SLOAN' – MODEL# 111–1.28 GPF, FLUSHOMETER SEAT: 'KOHLER' – MODEL# K–4686 , TOILET SEAT INCLUDED	KINDER AGES 3–4	3"	2"	1"	–
WC 3 ***	BOWL: 'KOHLER' – MODEL# K–96057, HIGHLINE, FLOOR MOUNT FLUSHOMETER VALVE: 'SLOAN' – MODEL# 111–1.28 GPF, FLUSHOMETER SEAT: 'BEMIS' – MODEL# 1955 SSCT, TOILET SEAT	ADULT AGES 12+	3"	2"	1"	–
WC 4 ***	BOWL: 'KOHLER' – MODEL# K–96053, WELLCOMME, FLOOR MOUNT FLUSHOMETER VALVE: 'SLOAN' – MODEL# 111–1.28 GPF, FLUSHOMETER SEAT: 'BEMIS' – MODEL# 1955 SSCT, TOILET SEAT	ELEM AGES 9–12	3"	2"	1"	–
WC 5	BOWL: 'KOHLER' – MODEL# K–96059 (JUVENILE ULTRA) TOP SPUD FLUSHOMETER BOWL OR EQUAL, FLOOR MOUNT VALVE: 'SLOAN' MODEL: 111–1.28 GPF OPTIONAL ELECTRONIC FLUSH VALVE: 'SLOAN' MODEL: REGAL 111 SFSM–1.28GPF SEAT: 'BEMIS' MODEL 1955SSCT, TOILET SEAT	ELEM AGES 5–8 SEE	3"	2"	1"	–
WC 6	NOT USED	–	–	–	–	–
WC 7	BOWL: 'KOHLER' – MODEL# K–3999, HIGHLINE, FLOOR MOUNT TANK TYPE 1.28 GPF SEAT: 'BEMIS' – MODEL# 1955 SSCT, TOILET SEAT	ADULT AGES 12+	3"	2"	1/2"	–
UR 1 ***	BOWL: 'KOHLER' – MODEL# K–5452 ET, DEXTER, WALL HUNG URINAL VALVE: 'SLOAN' – MODEL# 186 FLUSHOMETER 0.5 GPF	ALL AGES	3"	2"	3/4"	–
LV 1	LAV: KOHLER' – MODEL# K–2005, KINGSTON, WALL HUNG, 21–1/4" x 18–1/8" LAVATORY. 6 1/2" MAX SINK DEPTH FAUCET: 'KROWNE' – MODEL# 12–510L, SINGLE HANDLE, 0.5 GPM COLD WATER ONLY (OPTION): SUPPLY LINE WITH 3 WAY STOP TO SUPPLY LEFT & RIGHT SIDES COLD & HOT WATER (OPTION): WHEN REQUIRED THAT WATER NOT EXCEED 110F A TEMPERING VALVE WILL BE ADDED BEFORE FAUCET.	ALL AGES	2"	2"	1/2"	1/2"
SK 1	SINK: 'JUST' – MODEL# CRA–ADA–1725–A–GR, 25x17, 18 GA TOP MOUNT, SS CLASSROOM SINK STRAINER J35 SINK DEPTH: 6 1/2" MAX. ACTUAL SINK DEPTH SHALL BE VERIFIED ON PROJECT SPECIFIC FAUCET: 'JUST' – MODEL# JVR–1–W4, SINGLE HOLE FAUCET 1.5 GPM BUBBLER: 'JUST MANUFACTURING COMPANY' – MODEL# JSB–10 LEAD FREE BUBBLER NOTE: SPOUT HEIGHT SHALL BE NO MORE THAN 2" HIGH TO CONFORM WITH APPLICABLE CODE WHEN INSTALLED ON A CLASSROOM SINK COUNTER	ALL AGES	2"	1 1/2"	1/2"	1/2"
WH 4 ***	TANKLESS ELECTRIC WATER HEATER: 'EeMAX' – MODEL# SPEX2412T, INSTANT–FLOW , 0.2 GPM ELECTRICAL REQUIREMENTS: 120V, 20A. WT = 4#	–	–	–	1/2"	1/2"
JS 1 ***	SERVICE SINK: 'FLORESTONE' – MODEL# MSR–2424, 24" X 24" X 10" MOLDED MOP RECEPTOR FAUCET: 'MOEN' – MODEL# 8230 MOP SINK FAUCET	–	2"	1 1/2"	1/2"	1/2"
HB 1 ***	HOSE BIB: 'ZURN' – MODEL# Z1341–P34–RC, 3/4" FPT X 3/4" HOSE CONNECTION	–	–	–	3/4"	–
HB 2 ***	HOSE BIB: 'ZURN WALL HYDRANT' – MODEL# Z1350, 3/4" HOSE CONNECTION	–	–	–	3/4"	–
DF 1 ***	ELECTRIC REFRIGERATED DRINKING FOUNTAIN: 'ELKAY' ezH20 – MODEL# VRCTLBWSK, ADA BI–LEVEL W/BOTTLE FILLER ELECTRICAL REQUIREMENTS: 120V, 15A	ALL AGES	2"	1 1/2"	1/2"	–
DF 2 ***	DRINKING FOUNTAIN WALL MOUNTED: 'ELKAY' – MODEL# EDFPBM214C, ADA, SINGLE USE FOUNTAIN	ALL AGES	1 1/4"	1 1/4"	1/2"	–
GD 1 ***	FOOD WASTE DISPOSER: 'IN–SINK–ERATOR' – MODEL# BADGER 5, 6–5/16" X 12– 5/8", 1/2 HP ELECTRICAL REQUIREMENTS: 120V, 6.9A	–	1 1/2"	–	–	–
FD 1 ***	FLOOR DRAIN: 'JR SMITH' – MODEL# FD–2005, 5" DIAMETER CAST IRON	–	2"	1 1/2"	1/2"	–
TP 1 ***	TRAP PRIMER: 'PRECISION PLUMBING PRODUCTS' (PPP) – MODEL# PR–500 VACUUM BREAKER TRAP PRIMER FLUSH ACCESS PANEL: 'ELMDOR' – 10" X 10", WHITE IN COLOR UNO BRONZE BALL VALVE: 'JOMAR' – MODEL# T–150, 1/2"	–	–	–	1/2"	
WHA 1 ***	WATER HAMMER ARRESTOR: 'SIOUX CHIEF' MODEL 652A MH					
RD 1 ***	ROOF DRAIN: 'JR SMITH' – MODEL# 1850Y, 12" DIAMETER CAST IRON DOME SUMP					

SEE A10.1a THRU A10.1d FOR MOUNTING HEIGHTS AT ACCESSIBLE FIXTURES

FOR ELEMENTARY AND KINDER NON–ACCESSIBLE (STANDARD) MOUNTING HEIGHTS, USE THE ACCESSIBLE DIMENSIONS FOR ALL FIXTURES

NOTE: NON–ACCESSIBLE (STANDARD) MOUNTING HEIGHTS FOR ADULT FIXTURES SHALL BE THE FOLLOWING:
TOILET SEAT HEIGHT– 15" AFF
URINAL LIP HEIGHT– 24" AFF

NOTE:
REFER TO SHEETS P1.1-PS, P1.2-PS & P1.3-PS
FOR ADDITONAL PLUMBING FIXTURE SCHEDULE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

GLOBAL MODULAR incorporated

AURORA DESIGNS · MODTECH Design · MODULAR STRUCTURES INTERNATIONAL, INC. DESIGNS

CONTRACTORS LICENSE #837357

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PROJECT NAME:

SHEET TITLE:

PLUMBING SCHEDULE AND DETAILS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 11/6/2023

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER · RYAN J. OMER · No. S 4437 · STRUCTURAL · STATE OF CALIFORNIA

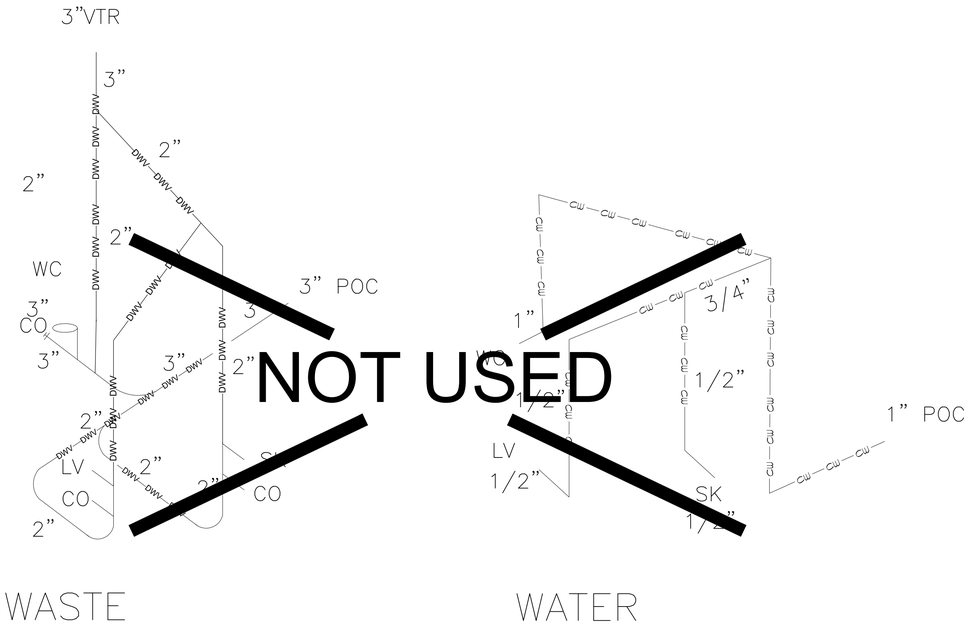
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

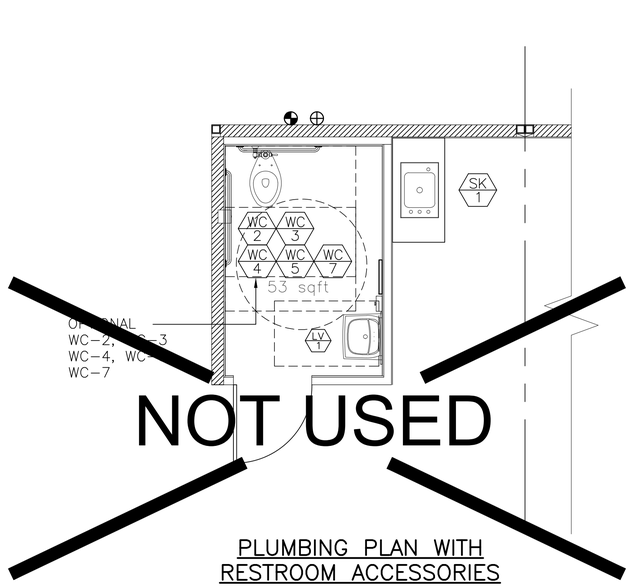
ARCHITECT OF RECORD

REVISIONS	
1	-
2	-
3	-
4	-
PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P0.0

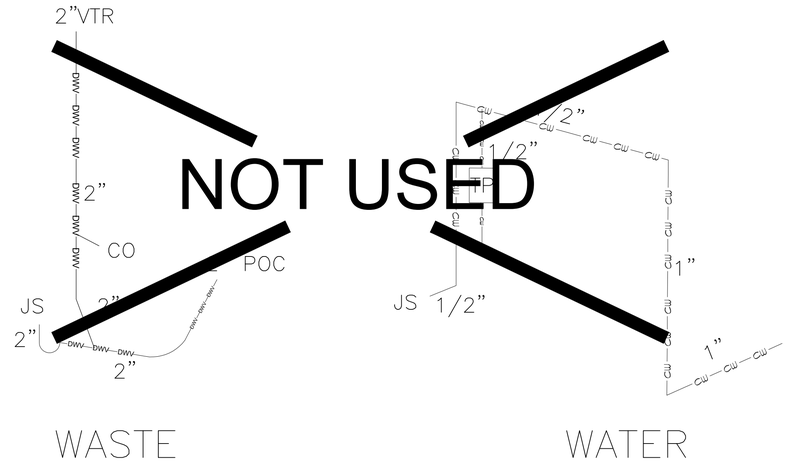


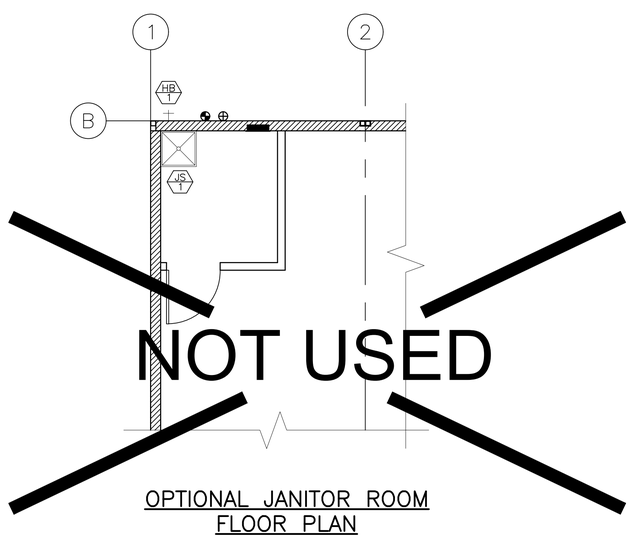


PLUMBING PLAN WITH RESTROOM ACCESSORIES

NOT TO SCALE

WC ------- WATER CLOSET
C ------- CLEAN OUT
SK ------- CLASSROOM SINK
LV ------- WALL HUNG LAVATORY SINK
VTR ------- VENT THRU ROOF
JS ------- JANITORS SINK
TP ------- TRAP PRIMER
POC ------- POINT OF CONNECTION





OPTIONAL JANITOR ROOM FLOOR PLAN

NOT TO SCALE

PLUMBING LEGEND

- COLD WATER
- WASTE
- VENT
- CLEAN OUT
- WALL CLEAN OUT (WCO)
- VENT TRHOUGH ROOF (VTR)
- FLOOR CLEAN OUT (FCO)
- WATER POC
- WASTE POC
- PIPE UP OR PIPE DOWN
- PLUMBING FIXTURE CALL OUT (REFERENCE SHEET P0.0 FOR FIXTURE SCHEDULE)

GENERAL NOTES

1. INSULATE WATER LINES PER ENERGY CODE SECTION 120.3
2. ALL PLUMBING VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR IN-TAKE EQUIPMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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PROJECT NAME:

SHEET TITLE:

PLUMBING PLAN
24'x40'

REFER TO P1.0-PS, P1.1-PS, P1.2-PS

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121341 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
Exp. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS
1 -
2 -
3 -
4 -

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

P1.0

DESIGN CRITERIA		
BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING		
DESCRIPTION	DESIGN VALUES	
DEAD AND LIVE LOADS		
ROOF LIVE LOAD	20 PSF	
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX	
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF	
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF	
ROOF LIVE LOAD		
ROOF LIVE LOAD, L_r	20 PSF	
ROOF SNOW LOAD		
GROUND SNOW LOAD, P_g	20 PSF	
RISK CATEGORY	II	
ROOF SNOW LOAD: SLOPED, P_s	20 PSF	
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STTRUCTURE SHALL BE LOCATED AT LEAST 20 FEET		
FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.		
SNOW LOAD SLOPE FACTOR, C_s	1.0	
SNOW LOAD EXPOSURE FACTOR, C_e	1.0	
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0	
THERMAL FACTOR, C_t	1.2	
LOWEST ANTICIPATED SERVICE TEMPERATURE	30°	
WIND DESIGN		
BASIC WIND SPEED (3 SECOND GUST), V_{ult}, V_{asd}	100 MPH, 78 MPH	
RISK CATEGORY	II	
EXPOSURE CATEGORY	C	
FACTORS: K_z, K_{zt}, K_d	0.85, 1.0, 0.85	
$q_h = 0.00256\ K_z\ K_{zt}\ K_d\ V^2$	18.50 PSF	
C_{NW} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.69)	
C_{NL} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)	
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (< h)	CASE A (-0.8 / -1.2) CASE B (0.8 / 0.5)	
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)	CASE A (-0.6 / -0.9) CASE B (0.5 / 0.5)	
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)	CASE A (-0.3 / -0.6) CASE B (0.3 / 0.3)	
COMPONENTS & CLADDING - C_N (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)	
	ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)	
	ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)	
SEISMIC DESIGN		
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
SESIMIC IMORTANCE FACTOR, I_e	1.0	
SEISMIC SITE CLASS	D	
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_S	2.60	
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_1	0.90	
SHORT PERIOD SITE COEFFICIENT, F_a	1.20	
LONG PERIOD COEFFICIENT, F_v	1.70	
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)	0.152 s	
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}	2.08 ☐	
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS} - USED TO DETERMINE Cs (WITH CAP PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E.	2.08 * 0.70 = 1.456 ☐	
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S_{D1}	1.02	
SEISMIC DESIGN CATEGORY	E	
SITE SPECFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2	T_s = 0.49 s	T < 1.5 * T_s
RESPONSE MODIFICATION FACTOR, R	1.25	
OVERSTRENGTH FACTOR, Ω	1.25	
REDUNDANCY FACTOR, ρ	1.0	
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE	
SEISMIC RESPONSE COEFFICIENT, C_s (20' WIDE, 30' WIDE, 40' WIDE)	1.16	1.00 1.00
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) (WORST CASE)	10.62 PSF ☐	12.70 PSF ☐ 12.85 PSF ☐
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS	
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA		
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHERTHAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.		

STRUCTURAL SEPARATION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

SEPARATION IS THE SUM OF 2 OF THESE SELECTED DEFLECCTION

DEFLECTIONS ARE FOR (1) STRUCTURE

SOIL CLASSES PER CBC TABLE 1806A.2

MAXIMUM DRIFT δ_{max} SIDE COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 2.40	~~[ ] 2.55~~	[ ] 2.65
~~30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 2.15	[ ] 2.30	[ ] 2.40
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[ ] 2.20	~~[ ] 2.20~~	[ ] 2.30
MINIMUM SEPARATION ($\delta_m = C_d\ \delta_{max}$) C_d = 1.25			
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 3.00	~~[ ] 3.19~~	[ ] 3.31
~~30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 2.69	[ ] 2.88	[ ] 3.00
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[ ] 2.75	~~[ ] 2.75~~	[ ] 2.88

MAXIMUM DRIFT δ_{max} END COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 2.40	~~[ ] 2.55~~	[ ] 2.65
~~30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 2.15	[ ] 2.30	[ ] 2.40
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[ ] 2.20	~~[ ] 2.20~~	[ ] 2.30
MINIMUM SEPARATION ($\delta_m = C_d\ \delta_{max}$) C_d = 1.25			
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 3.00	~~[ ] 3.19~~	[ ] 3.31
~~30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	[ ] 2.69	[ ] 2.88	[ ] 3.00
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[ ] 2.75	~~[ ] 2.75~~	[ ] 2.88

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- -GABLE STRUCTURES UP TO 20' WIDE USE THE "RG 20" BASE FRAME
- -GABLE STRUCTURES UP TO 30' WIDE USE THE "RG 30" BASE FRAME
- -GABLE STRUCTURES UP TO 40' WIDE USE THE "RG 40" BASE FRAME
- -MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- -THE 24', 44', 64', 84' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE THE MOST ECONOMICAL)
- -FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT = 2' MAX DIMENSION)

STEP 1	FRAME DIMENSIONS					
		SUGGESTED			OTHER	
	FRAME WIDTH	[ ] 20'	[ ] 30'	☒ 40'		[ ] (40' MAX)
	FRAME LENGTH	☒ 44'	[ ] 64'	[ ] 84'	[ ] 104'	[ ] (NO MAX)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- -"M" REPRESENTS McELROY METAL "MULTI-RIB" ROOF PANEL
- -"G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL
- -"S" REPRESENTS McELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF PANEL

STEP 2	ROOF PANEL				
	ROOF PANEL TYPE	☒ M	[ ] G	[ ] S	

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- -Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- -Ss VAULE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
  - -FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")

STEP 3	PROJECT SITE – Ss ACCELERATION (g)
	0.575

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- -THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- -THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME

STEP 4	Ss REGION			
			Ss REGIONS	MAX DEAD LOAD
	DESCRIPTION	☒	0 < Ss <= 2.14	5 PSF
			2.14 < Ss <= 2.50	5 PSF
			2.50 < Ss <= 2.60	5 PSF

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- – THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- – THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- – BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 FOR YOUR Ss VALUE
- – Sds VALUE USED IN CALCULATION IS THE CAPPED Sds (SEE DESIGN CRITERIA)

STEP 5	TOTAL ROOF DEAD LOAD		
		DEAD LOAD	EXAMPLES
	ROOF DECK	1.2 PSF	M=1.1PSF; G=1.2PSF ;S=1.3PSF (SEE STEP 2)
	COLLATERAL	1.0 PSF	LIGHTNING,FIRE SUPPRESSION,SOLAR PANELS,ETC
	TOTAL	2.2 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- -IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
- -USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

STEP 6	FOUNDATION REQUIREMENTS			
	[ ] GEOTECHNICAL REPORT NOT REQUIRED	[ ] GEOTECHNICAL REPORT REQUIRED		
	SOIL CLASS 5 (BEARING) 1500 PSF ☒	SOIL CLASS 4 (BEARING) 2000 PSF [ ]	SOIL CLASS 3 (BEARING) 3000 PSF [ ]	
	SOIL CLASS 5 (LATERAL BEARING) 200 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 300 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 400 PSF/FT	
	COHESION 130 PSF	FRICTION COEFFICIENT 0.25	FRICTION COEFFICIENT 0.30	

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- -MAXIMUM CLEAR HEIGHT IS 12'-0"; (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- -MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 7	MISCELLANEOUS		
		DESIGN OPTIONS	
	CLEAR HEIGHT	[ ] 8' [ ] 10' ☒ 12'	[ ] ' (12" MAX)
	ELECTRICAL CUTOUTS	☒ YES	[ ] NO
	GUTTERS	[ ] YES	☒ NO

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- -REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2)
- -IDENTIFY THE APPLICABLE SHEET INDEX

STEP 8	SHEET INDEX											
	BASE FRAME	RG 20			RG 30			RG 40		
	ROOF PANEL TYPE	M	G	S	M	G	S	M	G	S
	SELECT ONE	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	☒	[ ]	[ ]
	GENERAL NOTES	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0
	FOUNDATION PLAN	LS2.0	LS2.0	LS2.0	LS3.0	LS3.0	LS3.0	LS4.0	LS4.0	LS4.0
	FRAMING PLAN	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1
	FRAME CONNECTION DETAILS	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1
	ROOFING LAYOUT & DETAILS	LS2.2	LS2.2	LS2.4	LS3.2	LS3.2	LS3.4	LS4.2	LS4.3	LS4.4
	MISC DESIGN OPTIONS	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0
	DSA 103 EXAMPLE	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3
	–									
	–									

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- -INCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND LOCATION

PROJECT NAME:	SCHOOL DISTRICT:
FRANKLIN ELEMENTARY PHASE 3	MERCED CITY SCHOOL DIST.

STEP 11: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT SPECIFIC

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SELECT ONE

SNOW
pg = 20 psf
Pf = 0 psf
Ce = 1 psf

WIND
V = 100 mph < XX mph
kzt = 85 <1
EXPOSURE: C☒ D☐

SIESMIC

☐ DESIGN BASED ON SITE CLASS D
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☒ E☐
Ss = 0.575 Fa = 1.340 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, Sds, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT
COS APPROVAL REQUIRED
NOT ELEGIBLE FOR OTC REVIEW
SITE CLASS: C☐ D☐ E☐

Sds = Fa Ss = 2.08
☒ SITE CLASS C or D: 0.7 x Sds* = 0.7 x 2.08 = 1.456 < X.XX
☐ SITE CLASS E: Sds = _____ < X.XX
Cs= X.XXX USED IN DESIGN
SIESMIC DESIGN CATEGORY D ☒ E☐
*SITE SPECIFIC Sds VALUE BEFORE APPLYING REDUCTION ALLOWED BY ASCE 7 SECTION 12.8.1.3

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH

ARCHITECTURAL REQUIREMENTS	
DESCRIPTION	DESIGN VAULES
TYPE OF CONSTRUCTION	II-B
OCCUPANCY CLASSIFICATION	A-3
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN
MOST COMMON RG20 MIN/MAX SQ.FT (SEE STEP 1)	480/2,080
MOST COMMON RG30 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120
MOST COMMON RG40 MIN/MAX SQ.FT (SEE STEP 1)	960/4,160

AREA OVER 4000 SQFT REQUIRES GEOHAZARD REPORT
ALLOWABLE AREA FOR II-B / A-3 IS 9500 SQ.FT

RELATED BUILDING CODES AND STANDARDS

TITLE 24 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.....(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 GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
2022 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER DANIEL D. WOLF No. 30988 STRUCTURAL CIVIL STATE OF CALIFORNIA

Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.0A

PRINTED ON :

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS. SEE CBC CHAPTER 7A FOR REQUIREMENTS
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy = 36 KSI.
6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
10. ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
11. ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR THE SITE SPECIFIC PROJECT, J.R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
6. J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL 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 THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, 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 DSA BEFORE PROCEEDING WITH THE WORK, (SECTION 4-317(c), PART 1, TITLE 24, CCR)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS – INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME
BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S
USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

A)PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS* , WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
2. CALIBRATED WRENCH: PER THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS*, WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"

B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET
6. PER CBC SECTION 1803A.6, GEOHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
10. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.44	0.35	3"	150 PCF

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005. MAX AGGREGATE SIZE = 1".
5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19.
9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
10. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   A. CAST AGAINST EARTH .....3"
   B. CAST AGAINST FORM BELOW GRADE .....2"
   C. FORMED SLABS (#11 BAR & SMALLER).....3/4"
   D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-19, SECTION 25.5.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED.
8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:

1. THE STEEL FRAME (HSS SECTIONS, COLD FORMED & PLATE STEEL) SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATEMENT PROCESS.
3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES & COLD FORMED STEEL ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE "AND THE "AISC SPECIFICATION SECTION M3"(UNLESS NOTED OTHERWISE).

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REGISTERED PROFESSIONAL ENGINEER DANIEL D. STOCKTON 2009 STRUCTURAL STATE OF CALIFORNIA

Aug 31, 2023

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DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.1A

PRINTED ON :

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122188
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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 Periodic – Indicates that a periodic special inspection is required 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. 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. 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.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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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.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	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.)

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	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.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	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.			

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.	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:	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.

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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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	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

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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	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.			

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

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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: • 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 S220-20 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 21-4.

	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 9.2 & 9.3; 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.

DSA 103

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DISTINCTIVE STEEL SHELTERS
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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: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	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	Table 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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School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	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.

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: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	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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School District: PC Update
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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.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

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

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	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.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2022 CBC

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	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

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

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

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 a roof 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/compaction 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 inspections 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.

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

Application Number: 04-122188
DSA File Number:
School Name: PC Update
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School District: PC Update
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	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: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

Name of Architect or Engineer in general responsible charge:
Name of Structural Engineer (When structural design has been delegated):
Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
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DATE: 03/07/2025

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

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DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
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Aug 31, 2023

DSA 103

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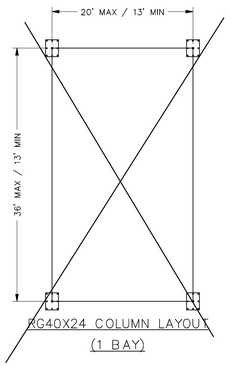
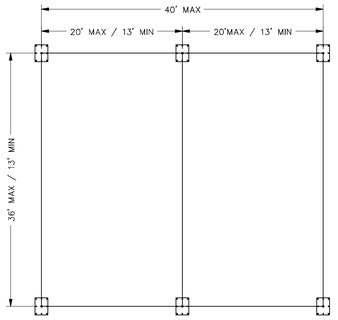
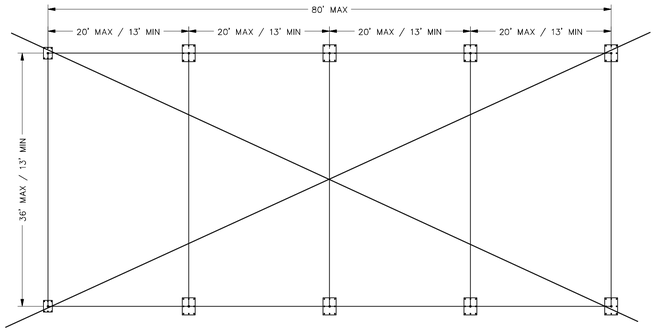


RG40X24 COLUMN LAYOUT
(1 BAY)

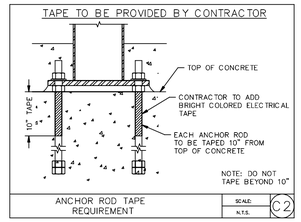


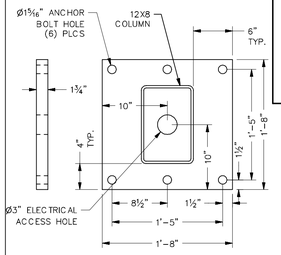
RG40X44 COLUMN LAYOUT
(2 BAYS)



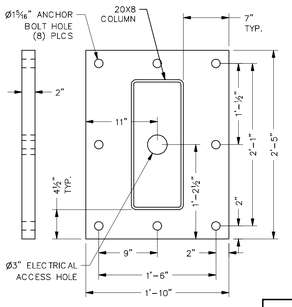
RG40X84 COLUMN LAYOUT
(4 BAYS)

BASE PLATE LOCATION		
	DETAIL A	DETAIL B
8'	BP1	BP2
10'	BP1	BP2
12'	BP1	BP2

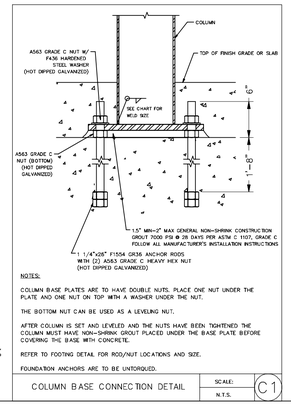


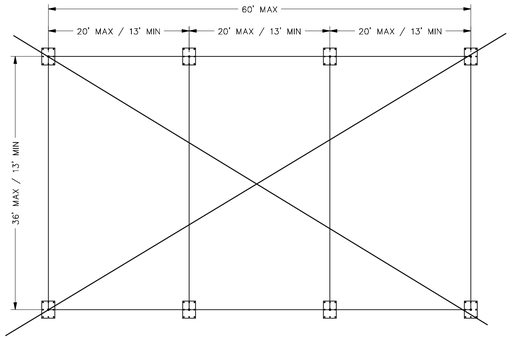


12X8 COLUMN BASE PLATE DETAIL — BP1



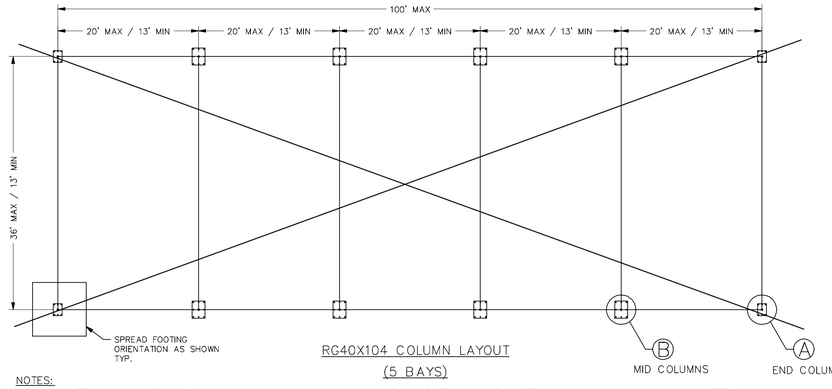
20X8 COLUMN BASE PLATE DETAIL — BP2





RG40X64 COLUMN LAYOUT
(3 BAYS)

ANCHOR ROD DETAIL
1.HEAT TREATED
2.MAX CARBON CONTENT-27%
3.MAX MANGANESE CONTENT
0.6 TO 0.9%



RG40X104 COLUMN LAYOUT
(5 BAYS)

NOTES:
COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.

WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
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REGISTERED PROFESSIONAL ENGINEER RUSSELL D. WOOLLEY STRUCTURAL STATE OF CALIFORNIA
Aug 31, 2023

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APP: 04-122188 PC
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DATE: 09/21/2023

40' WIDE RECTANGULAR GABLE

ALL ANCHOR RODS SHALL BE 1.25"X26" U.N.O.

RG40 - SPREAD

8' End Columns — Soil Class 5 - 1500 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
120	30	15	6
8' Side Columns — Soil Class 5 - 1500 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
168	30	21	6
8' Eave - 1500 psf [ ]			

8' End Columns — Soil Class 4 - 2000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
120	30	15	6
8' Side Columns — Soil Class 4 - 2000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
168	30	21	6
8' Eave - 2000 psf [ ]			

8' End Columns — Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
96	30	12	6
8' Side Columns — Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
138	30	17	6
8' Eave - 3000 psf [ ]			

10' End Columns — Soil Class 5 - 1500 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
102	30	13	6
10' Side Columns — Soil Class 5 - 1500 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
156	30	20	6
10' Eave - 1500 psf [ ]			

10' End Columns — Soil Class 4 - 2000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
102	30	13	6
10' Side Columns — Soil Class 4 - 2000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
156	30	20	6
10' Eave - 2000 psf [ ]			

10' End Columns — Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
90	30	12	6
10' Side Columns — Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
126	30	16	6
10' Eave - 3000 psf [ ]			

12' End Columns — Soil Class 5 - 1500 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
90	30	12	6
12' Side Columns — Soil Class 5 - 1500 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
144	30	18	6
1500 psf 12' Eave [ ]			

12' End Columns — Soil Class 4 - 2000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
90	30	12	6
12' Side Columns — Soil Class 4 - 2000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
144	30	18	6
2000 psf 12' Eave [ ]			

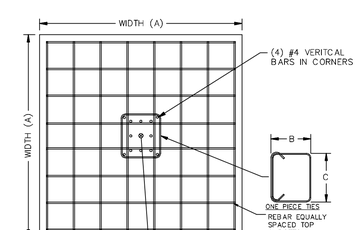
12' End Columns — Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
90	30	12	6
12' Side Columns — Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
114	30	14	6
3000 psf 12' Eave [ ]			

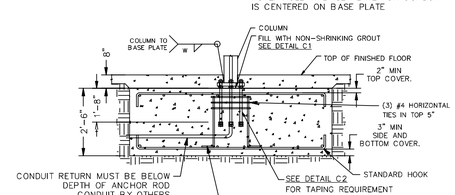
8' End Columns — Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
22	23.5	4	1/4
8' Side Columns			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
24	35.5	4	5/16
8' Eave - Rebar & Weld			

10' End Columns			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
22	23.5	4	3/8
10' Side Columns			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
24	35.5	4	3/8
10' Eave - Rebar & Weld			

12' End Columns			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
22	23.5	4	1/2
12' Side Columns			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
24	35.5	4	1/2
12' Eave - Rebar & Weld			

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT





SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (6) BOLT PATTERN WHILE B3 IS AN (8) BOLT

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

40' WIDE RECTANGULAR GABLE FOUNDATION PLAN

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
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HOLLAND MI, 49423
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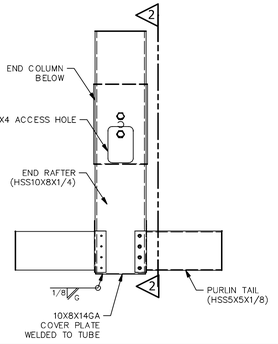
800.748.0985
616.396.0944 FX

LS4.0A

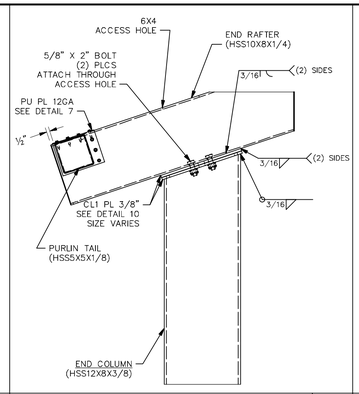
S:\Engineering\Inventor\DSA 2019\PC 2019 RC DSA\New folder\40 F1001\DSA RG40-P4.idw

PRINTED ON :

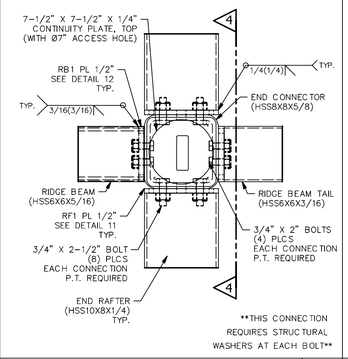
ALL STRUCTURAL FASTENERS (NUTS, BOLTS & WASHERS) ON THIS SHEET TO BE HOT DIP GALVANIZED



PLAN – PURLIN & END RAFTER CONNECTIONS @ END COLUMN | 1

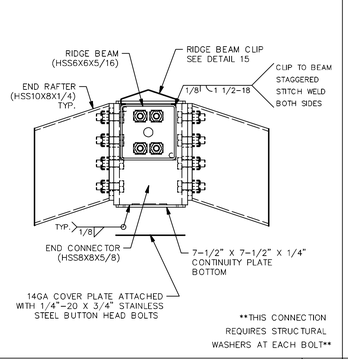


VIEW – PURLIN & END RAFTER CONNECTIONS @ END COLUMN | 2



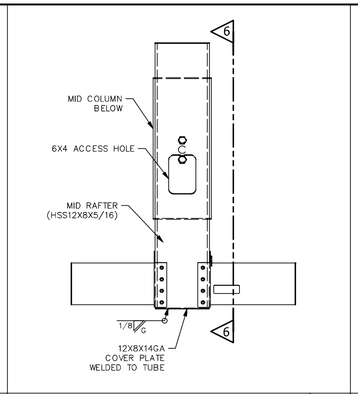
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

PLAN – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR | 3

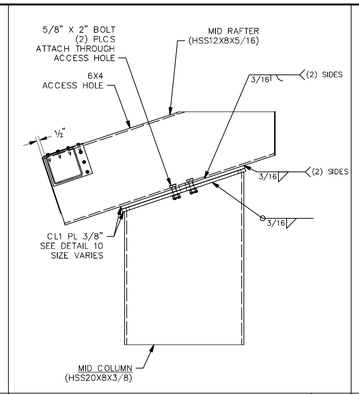


THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

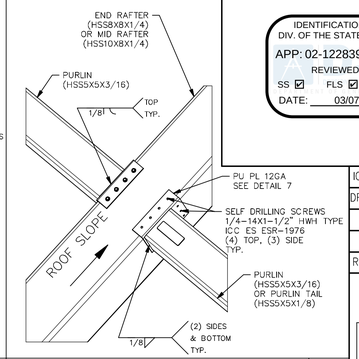
VIEW – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR | 4



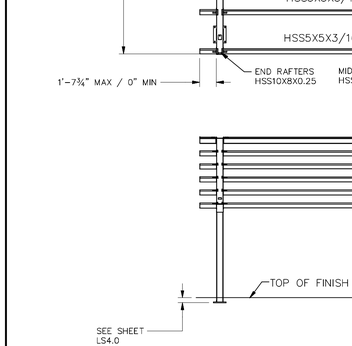
PLAN – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN | 5



VIEW – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN | 6

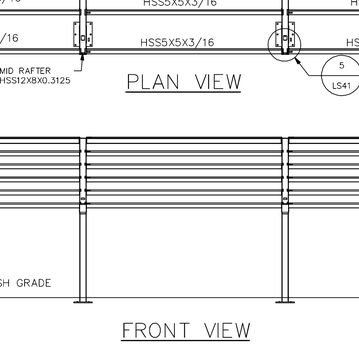


ISOMETRIC – PURLIN CONNECTIONS @ RAFTER | 7



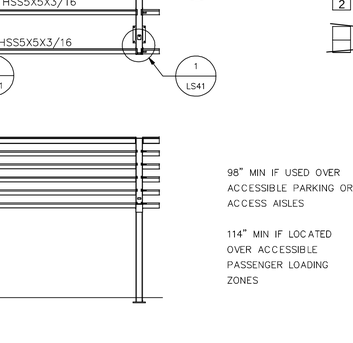
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

PLAN – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR | 8

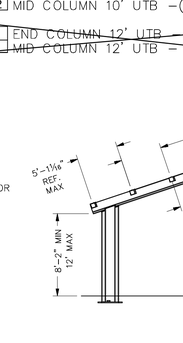


THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

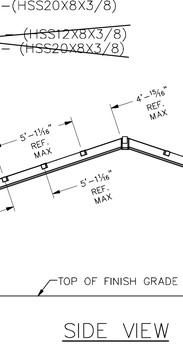
VIEW – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR | 9



COLUMN TO RAFTER PLATE DETAILS | 10

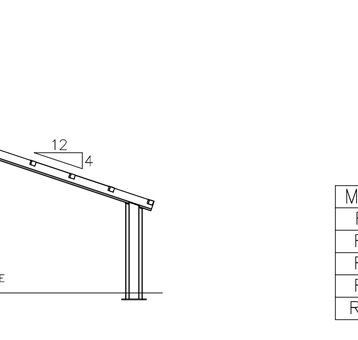


10X8 END RAFTER PLATE DETAIL | 11



RIDGE BEAM PLATE DETAIL | 12

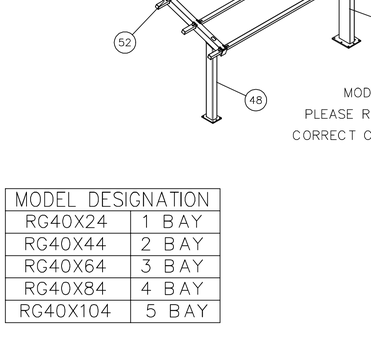
12X8 MID RAFTER PLATE DETAIL | 13



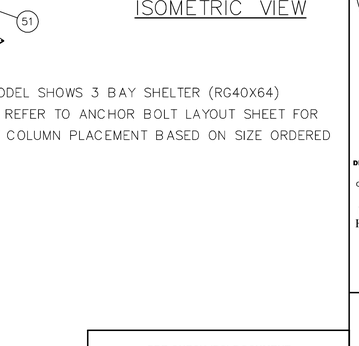
PURLIN PLATE DETAIL | 14

SECTION PROPERTIES
A=0.657 in^2 Fy=36 ksi
Ix=0.087 in^4 Sx=0.03 in^3
Iy=0.087 in^4 Sy=0.97 in^3

RIDGE BEAM CLIP (6" WIDE BEAM) | 15



TYPICAL NUT RESTRAINING SYSTEM | NR



ALL BOLTS ARE ASTM F3125 GR A325 HIGH STRENGTH BOLTS GALVANIZED PER SHEET LS1.0

TYPICAL BOLT RESTRAINING SYSTEM | BR

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

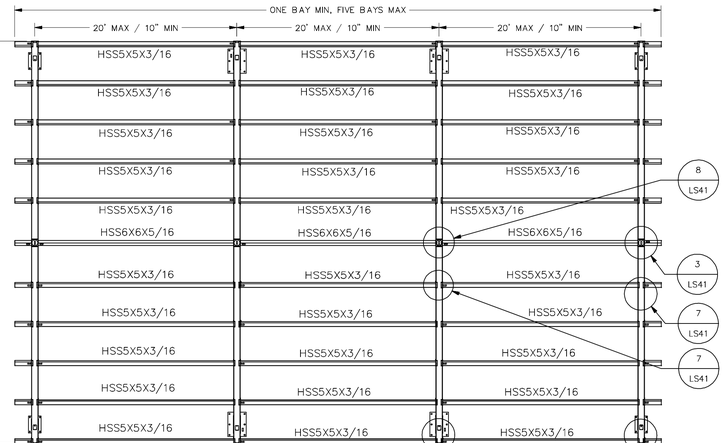
ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T.714.524.1870 F.714.524.1875
WWW.JRMA.COM

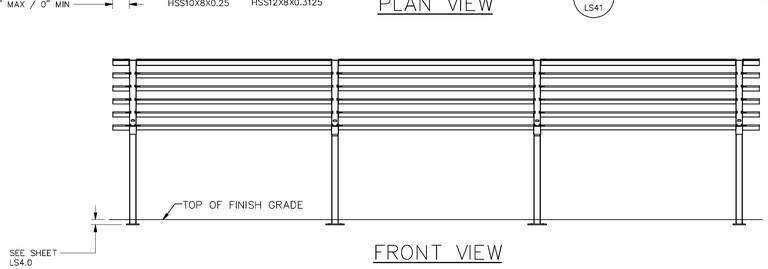
REGISTERED PROFESSIONAL ENGINEER — WILLIAM D. KOCH — No. 39765 — STRUCTURAL — STATE OF CALIFORNIA

Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023



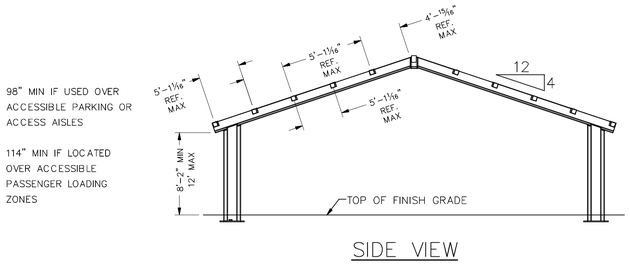
PLAN VIEW



FRONT VIEW

98" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES



SIDE VIEW

*NOTE:
QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

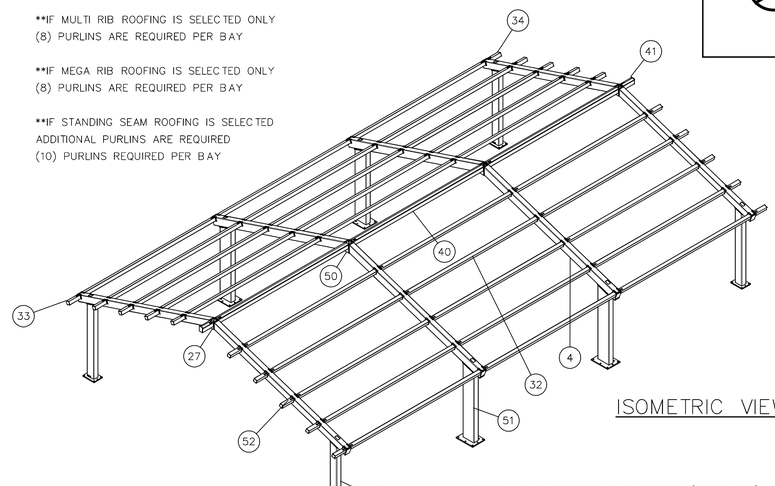
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		END COLUMN	**SEE NOTE BELOW		564 lbmass
2	*		MID COLUMN	**SEE NOTE BELOW		873 lbmass
3	4		END RAFTER	HSS10X8X1/4		626 lbmass
4	*		MID RAFTER	HSS12X8X5/16		872 lbmass
5	**		PURLIN	HSS5X5X3/16		234 lbmass
6	**		PURLIN TAIL 1	HSS5X5X1/8		15 lbmass
7	**		PURLIN TAIL 2	HSS5X5X1/8		15 lbmass
8	*		RIDGE BEAM	HSS6X6X5/16		333 lbmass
9	2		RIDGE BEAM TAIL	HSS6X6X3/16		34 lbmass
10	2		END CONNECTOR	HSS8X8X5/8		54 lbmass
11	*		MID CONNECTOR	HSS8X8X5/8		63 lbmass

**NOTE:
MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.
~~END COLUMN 8' UTB – (HSS12X8X3/8)~~
~~MID COLUMN 8' UTB – (HSS20X8X3/8)~~
4 END COLUMN 10' UTB – (HSS12X8X3/8)
2 MID COLUMN 10' UTB –(HSS20X8X3/8)
~~END COLUMN 12' UTB – (HSS12X8X3/8)~~
~~MID COLUMN 12' UTB – (HSS20X8X3/8)~~

**IF MULTI RIB ROOFING IS SELECTED ONLY (8) PURLINS ARE REQUIRED PER BAY

**IF MEGA RIB ROOFING IS SELECTED ONLY (8) PURLINS ARE REQUIRED PER BAY

**IF STANDING SEAM ROOFING IS SELECTED ADDITIONAL PURLINS ARE REQUIRED (10) PURLINS REQUIRED PER BAY



ISOMETRIC VIEW

MODEL SHOWS 3 BAY SHELTER (RG40X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

MODEL DESIGNATION	
RG40X24	1 BAY
RG40X44	2 BAY
RG40X64	3 BAY
RG40X84	4 BAY
RG40X104	5 BAY

40' WIDE RECTANGULAR GABLE

40' WIDE RECTANGULAR GABLE FRAMING & CONNECTION DETAILS

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DISTINCTIVE STEEL SHELTERS
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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS4.1A

S:\Engineering\Inventor\DSA 2022\PC 2022 RG DSA\40 FOD\DSA RG40-PX.idm

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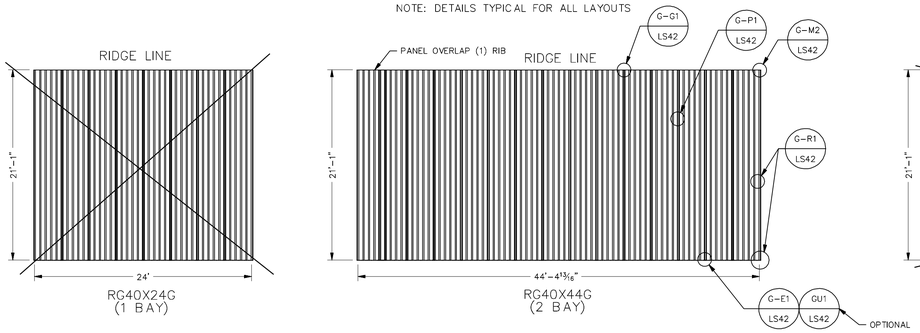
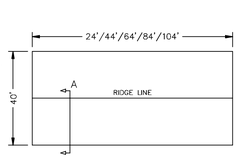
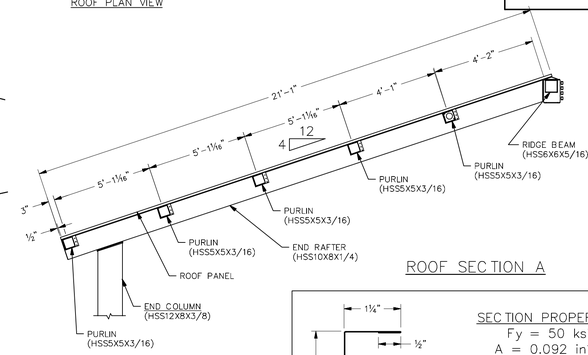




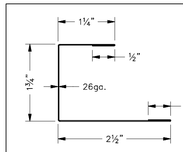
ROOF PLAN VIEW

FASTENER SCHEDULE

NOT TO SCALE



ROOF SECTION A



SECTION PROPERTIES

Fy = 50 ksi
A = 0.092 in^2
Ix = 0.028 in^4
Iy = 0.061 in^4
Sx = 0.024 in^3
Sy = 0.056 in^3

MULTI RIB EAVE TRIM 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
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REV DATE	

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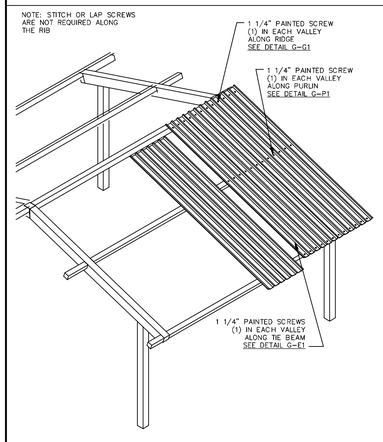
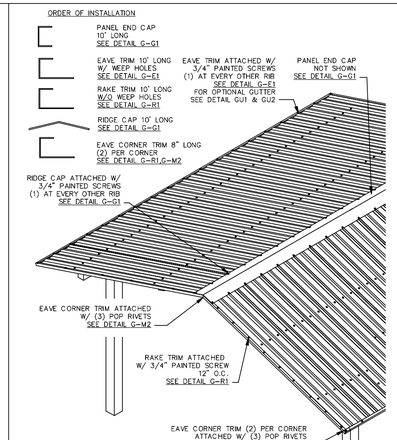
Aug 31, 2023

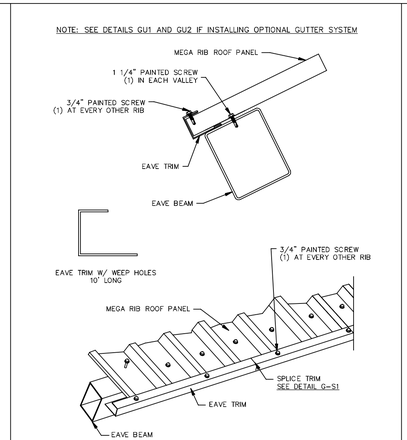
40' WIDE RECTANGULAR GABLE MEGA RIB ROOFING



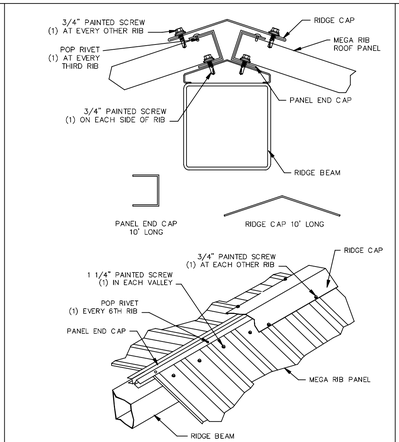
MEGA RIB ROOF INSTALLATION — ROOF



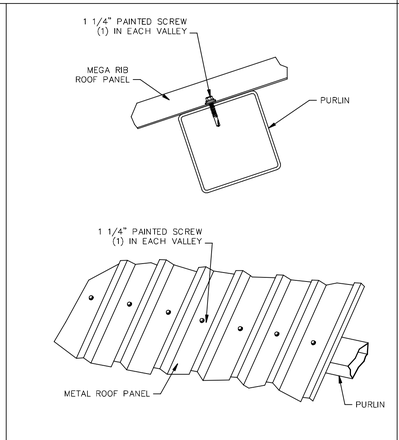
MEGA RIB TRIM INSTALLATION — TRIM



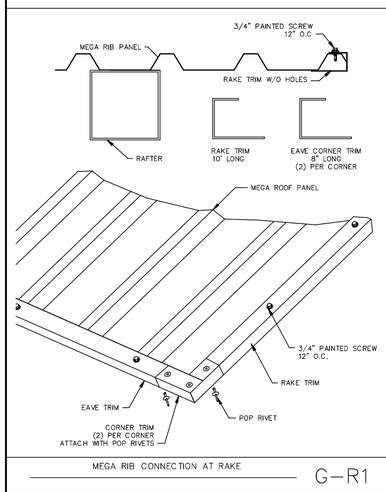
MEGA RIB ROOF EAVE CONNECTION DETAIL — G-E1



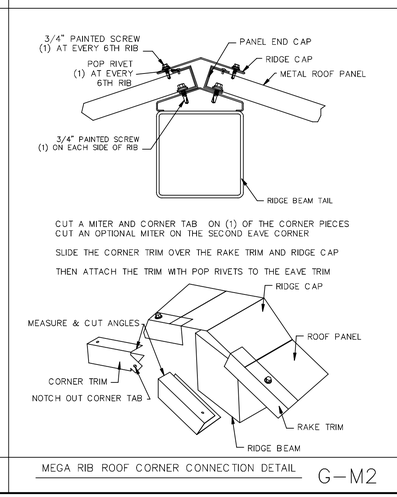
MEGA RIB ROOF CONNECTION AT RIDGE — G-G1



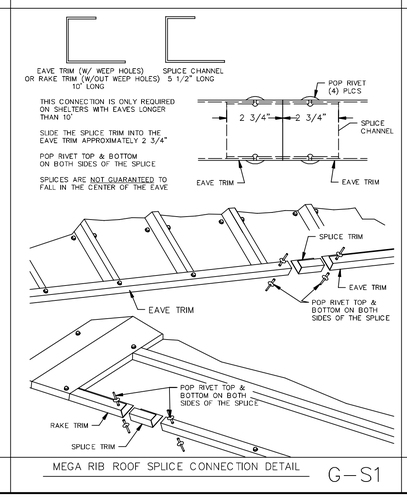
MEGA RIB ROOF CONNECTION AT PURLIN — G-P1



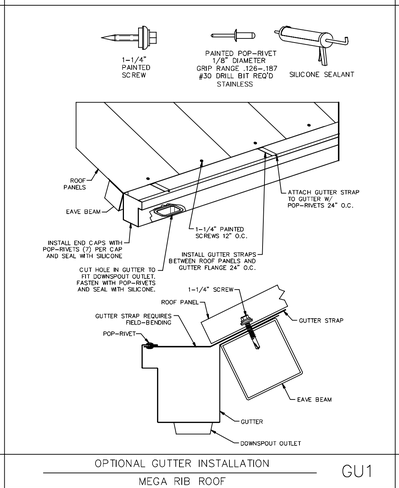
MEGA RIB CONNECTION AT RAKE — G-R1



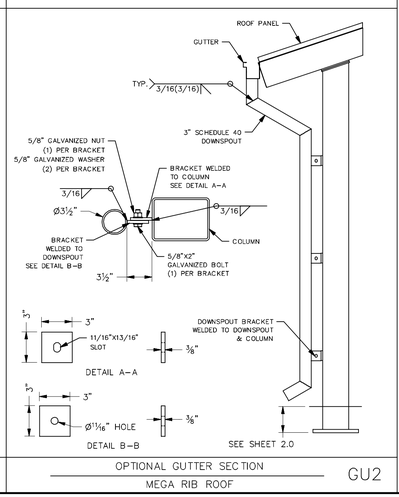
MEGA RIB ROOF CORNER CONNECTION DETAIL — G-M2



MEGA RIB ROOF SPLICE CONNECTION DETAIL — G-S1



OPTIONAL GUTTER INSTALLATION
MEGA RIB ROOF — GU1



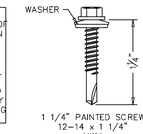
OPTIONAL GUTTER SECTION
MEGA RIB ROOF — GU2

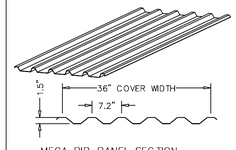
ROOF NOTES

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

CLASS A ROOFING





MEGA RIB PANEL SECTION
24 ga. Fy=50 ksi Fu=65 ksi
UES EVALUATION REPORT #270

SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.091 in^4
Se=0.1098 in^3
Ma=2.7433 in-kips

BOTTOM IN COMPRESSION
Ix=0.089 in^4
Se=0.0973 in^3
Ma=2.430 in-kips

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

40' WIDE
RECTANGULAR GABLE
MEGA RIB ROOFING
PLAN

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

LS4.3A

S:\Engineering\Inventor\Standard Parts\ROOF PARTS\MEGA EAVE TRIM.ipt

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

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ELECTRICAL INFORMATION - RECTANGULAR GABLE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN.
THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN.
IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY.
ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR
ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

STEPS:

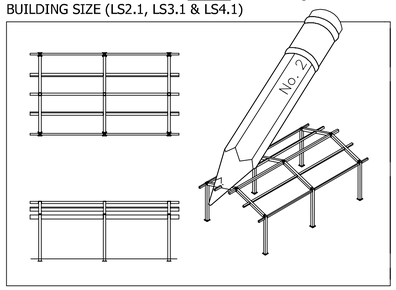
1. CONDUIT HOLE SIZE (DETAIL A)

2. ELECTRICAL EXIT HOLES (DETAIL B)

3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)

4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

☐ IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET REQUIRED FOR BUILDING SIZE (LS2.1, LS3.1 & LS4.1)

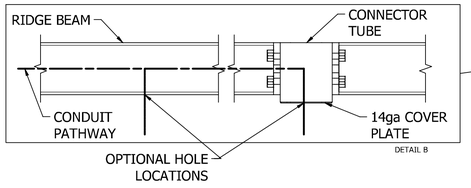


DETAIL D

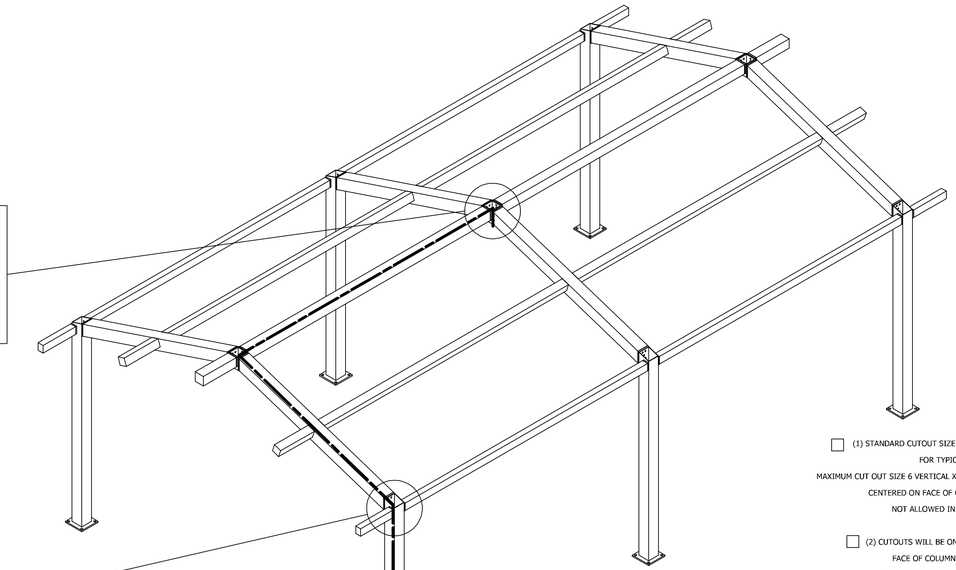
OPTIONAL EXIT HOLES

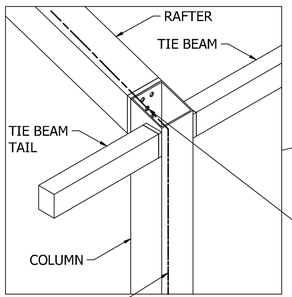
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY)
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZES.

(1) EXIT HOLE PER CONNECTOR
(2) EXIT HOLES PER RIDGE BEAM



DETAIL B



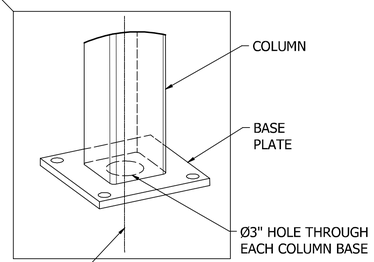


DETAIL A

ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT.
IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

☐ 3/4" CONDUIT (1" HOLES)
☐ 1" CONDUIT (1 1/4" HOLES)

CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.



BASE DETAIL

PROVIDE GROUNDING PER CEC ARTICLE 250

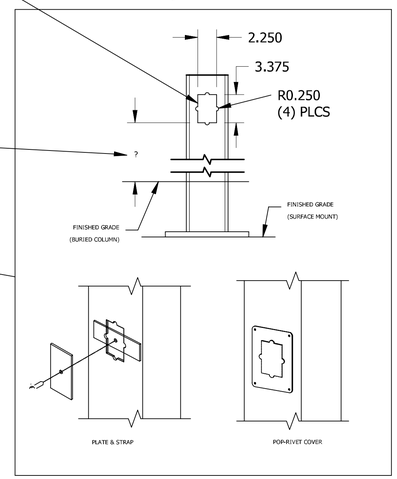
OPTIONAL CUTOUTS

USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY)
SEE REQUIRED INFO BELOW

☐ (1) STANDARD CUTOUT SIZE SHOWN
FOR TYPICAL GFCI
MAXIMUM CUT OUT SIZE 6 VERTICAL X 4 WIDE
CENTERED ON FACE OF COLUMN
NOT ALLOWED IN 6" FACE

☐ (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.

☐ (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN
18" MIN. FROM TOP OF FINISHED GRADE



DETAIL C

(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

☐ PLATE & STRAP
☐ POP-RIVET COVER PLATE (STAINLESS POP RIVET)
HOW MANY REQUIRED?_____

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PC FOR ORDER-SPECIFIC CONFIGURATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER RUSSELL D. FOSS No. 30965 STRUCTURAL STATE OF CALIFORNIA

Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

OPTIONAL ELECTRICAL ACCESS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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HOLLAND MI, 49423

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS5.0A

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DESIGN CRITERIA			
BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING			
DESCRIPTION	DESIGN VALUES		
DEAD AND LIVE LOADS			
ROOF LIVE LOAD	20 PSF		
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	4.5 PSF MAX		
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF		
COLLATERAL DEAD LOAD	M = 3.0 PSF, G = 3.0 PSF, S = 3.0 PSF		
ROOF LIVE LOAD			
ROOF LIVE LOAD, L_r	20 PSF		
ROOF SNOW LOAD			
GROUND SNOW LOAD, P_g	20 PSF		
RISK CATEGORY	II		
ROOF SNOW LOAD: SLOPED, P_s	20 PSF		
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STRUCTURE SHALL BE LOCATED AT LEAST 20 FEET FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.			
SNOW LOAD SLOPE FACTOR, C_s	1.1		
SNOW LOAD EXPOSURE FACTOR, C_e	1.0		
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0		
THERMAL FACTOR, C_t	1.2		
LOWEST ANTICIPATED SERVICE TEMPERATURE	30°		
WIND DESIGN			
BASIC WIND SPEED (3 SECOND GUST), V_{ult}, V_{asd}	100 MPH, 78 MPH		
RISK CATEGORY	II		
EXPOSURE CATEGORY	C		
FACTORS: K_z, K_{zt}, K_d	0.88, 1.0, 0.85		
$q_h = 0.00256\ K_z\ K_{zt}\ K_d\ V^2$	19.08 PSF		
SEISMIC DESIGN			
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN		
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE		
SESIMIC IMORTANCE FACTOR, I_e	1.0		
SEISMIC SITE CLASS	D		
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_S	2.14		
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_1	0.90		
SHORT PERIOD SITE COEFFICIENT, F_a	1.00		
LONG PERIOD COEFFICIENT, F_v	1.70		
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)	0.152 s		
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}	1.712		
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S_{D1}	1.02		
SEISMIC DESIGN CATEGORY	E		
SITE SPECIFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8	T_s = 0.49 s	T < 1.5 * T_s	
RESPONSE MODIFICATION FACTOR, R	1.25		
OVERSTRENGTH FACTOR, Ω	1.25		
REDUNDANCY FACTOR, ρ	1.3		
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE		
SEISMIC RESPONSE COEFFICIENT, C_s	1.37		
DESIGN BASE SHEAR, V (MC10' WIDE, MC16' WIDE, MT16' WIDE) (WORST CASE)	19.20 PSF ☐	19.20 PSF ☐	19.20 PSF ☐
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS		
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	☐		
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHERTHAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	☐		

SHEET INDEX

LS1.0 COVERED WALKWAY
LS1.1 GENERAL NOTES
LS1.2 DSA 103
LS1.3 DSA 103
~~LS2.0 MC10 FOUNDATION PLAN~~
~~LS2.1 MC10 CONNECTION DETAILS~~
~~LS2.2 MC10 MULTI RIB DETAILS~~
~~LS2.3 MC10 MEGA RIB DETAILS~~
~~LS2.4 MC10 STANDING SEAM DETAILS~~
LS3.0 MC16 FOUNDATION PLAN
LS3.1 MC16 CONNECTION DETAILS
~~LS3.2 MC16 MULTI RIB DETAILS~~
LS3.3 MC16 MEGA RIB DETAILS
~~LS3.4 MC16 STANDING SEAM DETAILS~~
~~LS4.0 MT16 FOUNDATION PLAN~~
~~LS4.1 MT16 CONNECTION DETAILS~~
~~LS4.2 MT16 MULTI RIB DETAILS~~
~~LS4.3 MT16 MEGA RIB DETAILS~~
~~LS4.4 MT16 STANDING SEAM DETAILS~~
LS5.0 OPTIONAL ELECTRICAL

TOTAL SHEETS: 20

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- MAXIMUM WIDTH IS 16' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- THE SUGGESTED LENGTHS IN THIS TABLE ARE RECOMMENDED BECAUSE THEY ARE THE MOST ECONOMICAL (25' BAYS FOR 10' WIDE 20' BAYS FOR 16' WIDTH
- FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT – 2' MAX DIMENSION)

STEP 1

FRAME DIMENSIONS											
	SUGGESTED										OTHER
FRAME WIDTH	[ ] (10' MC)				☒ (16' MC)				[ ] (16' MT)		[ ] (16' MAX)
HEIGHT UNDER EAVE	[ ] (10')		[ ] (12')		[ ] (16')		☒ (10')		[ ] (12')		[ ] (16')	[ ] (16' MAX)
FRAME LENGTH	[ ] (29')	[ ] (54')	[ ] (79')	[ ] (104')	[ ] (24')	[ ] (44')	[ ] (79')	[ ] (84')	[ ] (104')	☒ (35')	(NO MAX)	

STEP 2: SELECT COLUMN LOCATION
- COLUMN LOCATED AT EDGE OF STRUCTURE USE "MC10" OR "MC16" BASE FRAME
- COLUMNS LOCATED AT CENTER OR OFFSET FROM CENTER OF STRUCTURE USE "MT16" BASE FRAME
- FOR COLUMNS LOCATED AT CENTER OF STRUCTURE WIDTH, MAXIMUM OFFSET FROM CENTERLINE IS +/-2'-0"

STEP 2

COLUMN LOCATION						
	EDGE OF STRUCTURE (MC)	CENTER OF STRUCTURE (MT)				
OFFSET FROM STRUCTURE CENTERLINE	☒ N/A	[ ] +2'-0"	[ ] +1'-0"	[ ] 0'-0"	[ ] -1'-0"	[ ] -2'-0"

STEP 3: SELECT ROOF DECK FOR YOUR PROJECT
- "M" REPRESENTS McELROY METAL "MULTI-RIB" ROOF PANEL
- "G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL
- "S" REPRESENTS McELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF PANEL

STEP 3

ROOF PANEL				
ROOF PANEL TYPE	☒ M	[ ] G	[ ] S	

STEP 4: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss VAULE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
  - FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")

STEP 4

PROJECT SITE – Ss ACCELERATION (g)
0.575

STEP 5: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- THE REGIONS ARE DEPENDENT ON THE Ss VALUE DETERMINED IN STEP 4

STEP 5

Ss REGION			
		Ss	MAX DEAD LOAD
DEFAULT	☒	0 < Ss <= 2.14	4.5 PSF

STEP 6: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 3 FOR YOUR Ss VALUE
- Sds VALUE USED IN CALCULATION IS THE CAPPED Sds (SEE DESIGN CRITERIA)

STEP 6

TOTAL ROOF DEAD LOAD			
	DEAD LOAD		EXAMPLES
ROOF DECK	1.2	PSF	M=1.1PSF: G=1.2PSF: S=1.3PSF (SEE STEP 3)
COLLATERAL	1.0	PSF	LIGHTNING, FIRE SUPPRESSION, SOLAR PANELS, ETC
TOTAL	2.2	PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 4.5PSF)

STEP 7: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT (ALL CRITERIA MUST BE MET TO USE SOIL CLASSES)
- IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
- USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET

AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

STEP 7

FOUNDATION REQUIREMENTS		
[ ] GEOTECHNICAL REPORT NOT REQUIRED	[ ] GEOTECHNICAL REPORT REQUIRED	
SOIL CLASS 5 ☒	SOIL CLASS 4 [ ]	SOIL CLASS 3 [ ]
BEARING 1,500 PSF	BEARING 2,000 PSF	BEARING 3,000 PSF
LATERAL BEARING 200 PSF/FT	LATERAL BEARING 300 PSF/FT	LATERAL BEARING 400 PSF/FT
ALLOWABLE SKIN FRICTION 250 PSF	ALLOWABLE SKIN FRICTION 275 PSF	ALLOWABLE SKIN FRICTION 300 PSF
UPLIFT SKIN FRICTION 100 PSF	UPLIFT SKIN FRICTION 125 PSF	UPLIFT SKIN FRICTION 150 PSF

STEP 8: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- MAXIMUM CLEAR HEIGHT IS 16'-0"; (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 8

MICELLANEOUS		
	DESIGN OPTIONS	
CLEAR HEIGHT	[ ] 10' ☒ 12' [ ] 16'	[ ] ' (16' MAX)
ELECTRICAL CUTOUTS	☒ YES	[ ] NO
GUTTERS	[ ] YES	☒ NO

STEP 9: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 3)
- IDENTIFY THE APPLICABLE SHEET INDEX

STEP 9

SHEET INDEX												
BASE FRAME	MC10			MC16			MT16					
ROOF PANEL TYPE	M	G	S	M	G	S	M	G	S			
SELECT ONE	[ ]	[ ]	[ ]	☒	[ ]	[ ]	[ ]	[ ]	[ ]			
GENERAL NOTES	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0			
GENERAL NOTES	LS2.0	LS2.0	LS2.0	LS3.0	LS3.0	LS3.0	LS4.0	LS4.0	LS4.0			
FOUNDATION PLAN	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1			
FRAME CONNECTION DETAILS	LS2.2	LS2.2	LS2.2	LS3.2	LS3.2	LS3.2	LS4.2	LS4.2	LS4.2			
ROOFING LAYOUT & DETAILS	LS2.3	LS2.3	LS2.3	LS3.3	LS3.3	LS3.3	LS4.3	LS4.3	LS4.3			
MISC DESIGN OPTIONS	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0			
DSA FORM 103	LS1.2	LS1.2	LS1.2	LS1.2	LS1.2	LS1.2	LS1.2	LS1.2	LS1.2			
	LS1.3	LS1.3	LS1.3	LS1.3	LS1.3	LS1.3	LS1.3	LS1.3	LS1.3			

STEP 10: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- INCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITH ELECTRICAL CUTOUTS OR GUTTERS

STEP 11: IDENTIFY PROJECT NAME AND LOCATION

PROJECT NAME:	SCHOOL DISTRICT:
FRANKLIN ELEMENTARY PHASE 3	MERCED CITY SCHOOL DIST.

STEP 12: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT SPECIFIC

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SELECT ONE

SNOW
pg <= 20PSF ☒
Pf <= 20PSF ☐
Ce = 1.0

WIND
V = 100 mph < 100 mph
kzt = .85 ≤ 1
EXPOSURE: C ☒ (MAXIMUM)

SIESMIC
☐ 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: A☐ B☐ C☐ D☒ E☐
Ss = 0.575 Fa = 1.340 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
GEOHAZARD INVESTIGATION REPORT REQUIRED
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, Sds, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION. ROOF AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT
CGS APPROVAL REQUIRED
NOT ELEGIBLE FOR OTC REVIEW
SITE CLASS: C☐ D☐ E☐

Sds = 2/3 x Fa x Ss = 2.08
☒ SITE CLASS C or D: = 1.456 < 1.712
☐ SITE CLASS E: Sds = ____ ≤ 1.712
Cs= 1.37 USED IN DESIGN
SIESMIC DESIGN CATEGORY D☒ E☐

ABBREVIATIONS:			
ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH

ARCHITECTURAL REQUIREMENTS	
DESCRIPTION	DESIGN VAULES
TYPE OF CONSTRUCTION	II-B
OCCUPANCY CLASSIFICATION	A-3
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN
MOST COMMON MC10 MIN/MAX SQ.FT (SEE STEP 1)	290/3,790
MOST COMMON MC16 MIN/MAX SQ.FT (SEE STEP 1)	384/3,904
MOST COMMON MT MIN/MAX SQ.FT (SEE STEP 1)	384/4,000

AREA OVER 4000 SQFT REQUIRES GEOHAZARD REPORT

RELATED BUILDING CODES AND STANDARDS

TITLE 24 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.....(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 GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
2022 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY NOTED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH THE RANGE OF PROJECT SITES AND LOADING REQUIREMENTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122290 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/07/2024

ICON STD	WALKWAY PC
DRAWN BY	ANGEL
DATE	2/19/2024
REV	
REV DATE	

TK STRUCTURAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KYLE TAKAHASHI
No. 74845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

COVERED WALKWAY
GENERAL INFORMATION

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.0B

PRINTED ON :

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS. SEE CBC CHAPTER 7A FOR REQUIREMENTS
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy = 36 KSI.
6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
10. ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
11. ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, TKJ STRUCTURAL ENGINEERING is NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR THE SITE SPECIFIC PROJECT, TKJ STRUCTURAL ENGINEERING'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM TKJ STRUCTURAL ENGINEERING'S RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
6. TKJ STRUCTURAL ENGINEERING WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL 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 THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, 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 DSA BEFORE PROCEEDING WITH THE WORK, (SECTION 4-317(c), PART 1, TITLE 24, CCR)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS – INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME
   BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S
   USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

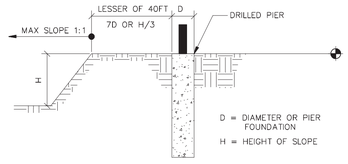
   A) PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
      1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS* , WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
      2. CALIBRATED WRENCH: PER THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS*, WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
      3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"

   B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET

   -FOUNDATION ADJACENT TO SLOPED SURFACES SHALL BE SET BACK PER THE FOLLOWING FIGURE, UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL REPORT:



6. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR PC-7 SECTION 1.8
7. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
8. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
9. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".
10. WHEN A GEOTECHNICAL REPORT IS SUPPLIED, THE GEOTECHNICAL ENGINEER SHALL REVIEW THE SITE CONDITIONS AND TESTING RESULTS, AND ALL ALLOWABLE INCREASES AND SUPPLY THE FINAL SOIL CLASS TO BE USED. THE GEOTECHNICAL ENGINEER SHALL PROVIDE IN THE REPORT THE BASE VALUES OF THE DESIGN PROPERTIES LISTED BELOW FOR DRILLED PIERS. THE GEOTECHNICAL ENGINEER SHALL ALSO PROVIDE ANY ALLOWABLE INCREASES TO THE BASE VALUES. ALLOWABLE INCREASES TYPICALLY INCLUDE, BUT ARE NOT LIMITED TO: DOUBLE VALUES DUE TO ISOLATED FOUNDATIONS, DOUBLE VALUES DUE TO THE STRUCTURE NOT BEING ADVERSELY AFFECTED BY 1/2" GROUND MOTION AT THE GROUND SURFACE, ETC. THE GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION OF THE SOIL CLASS TO BE USED AFTER ALL INCREASES HAVE BEEN CONSIDERED. ALL FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE VALUES PRESENTED ON THE COVER SHEET, STEP 7.
    A. ALLOWABLE LATERAL BEARING
    B. ALLOWABLE VERTICAL BEARING
    C. ALLOWABLE SKIN FRICTION
    D. ALLOWABLE SKIN FRICTION (UPLIFT)
11. STRUCTURES HAVE BEEN DESIGNED TO NOT BE ADVERSELY AFFECTED BY 1/2" GROUND MOTION AT THE GROUND SURFACE. ALL PIER FOUNDATIONS SHOWN IN THESE DRAWINGS ARE DESIGNED BASED ON ALLOWABLE BEARING VALUES THAT INDICATE DOUBLING PER CBC 1806A.3.4.
12. THE GEOTECHNICAL ENGINEER SHALL ADDRESS IN THE REPORT ANY CONCRETE DURABILITY REQUIREMENTS IN ACCORDANCE WITH ACI 318-19, CHAPTER 19.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   A. CAST AGAINST EARTH .....3"
   B. CAST AGAINST FORM BELOW GRADE .....2"
   C. FORMED SLABS (#11 BAR & SMALLER).....3/4"
   D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-19, SECTION 25.5.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED.
8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:

1. THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3"(UNLESS NOTED OTHERWISE).

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.44	0.35	4"	150 PCF

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
4. AGGREGATES SHALL CONFORM TO ASTM C-33. MAX AGGREGATE SIZE = 1".
5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19.
9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
10. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123290 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/07/2024

ICON STD	WALKWAY PC
DRAWN BY	ANGEL
DATE	2/19/2024
REV	
REV DATE	

STRUCTURAL ENGINEERING
TKJ

REGISTERED PROFESSIONAL ENGINEER
KYLE JOSEPH
No. 84845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

GENERAL NOTES

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.1B

PRINTED ON :

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

General

Application Number: 04-123290
DSA File Number:
School Name: PC ICON Shelter Systems Inc
Increment Number:
School District: PC ICON Shelter Systems Inc
Date Created: 2024-02-28 04:50:51

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. This 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 **Periodic –** Indicates that a periodic special inspection is required **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. **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. **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.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-123290
DSA File Number:
School Name: PC ICON Shelter Systems Inc
Increment Number:
School District: PC ICON Shelter Systems Inc
Date Created: 2024-02-28 04:50:51

Geotechnical Reports: Required for Class 3 and 4 soils (Not requred for Class 5 soils)

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	a. For class 3 and 4 soils, 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.** For class 3 of 4 soils or when required by geotechnical report, 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 if class 3 or 4 soils are used, or when required by geotechnical report.	**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.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	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.		

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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	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 inspection 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: 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

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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	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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Table 1705A.6, Table 1705A.7, Table 1705A.8

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	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.**			

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Table 1705A.6, Table 1705A.7, Table 1705A.8

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	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.)

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:	**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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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: 04-123290
DSA File Number:
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Increment Number:
School District: PC ICON Shelter Systems Inc
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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: • 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.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

ICON STD	WALKWAY PC
DRAWN BY	ANGEL
DATE	2/19/2024
REV	
REV DATE	

STRUCTURAL ENGINEERING
TKJ

REGISTERED PROFESSIONAL ENGINEER
TKJ
No. 74845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123290 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/07/2024

DSA 103

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
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LS1.2B

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

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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

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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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	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:			
	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

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/5/2023)
DEPARTMENT OF GENERAL SERVICES
STATE OF CALIFORNIA

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

Application Number: 04-123290
DSA File Number:
School Name: PC ICON Shelter Systems Inc
Increment Number:
School District: PC ICON Shelter Systems Inc
Date Created: 2024-02-28 04:50:51

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
5. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
6. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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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
☐	**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.**			

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: 04-123290
DSA File Number:
School Name: PC ICON Shelter Systems Inc
Increment Number:
School District: PC ICON Shelter Systems Inc
Date Created: 2024-02-28 04:50:51

	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.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2022 CBC

Application Number: 04-123290
DSA File Number:
School Name: PC ICON Shelter Systems Inc
Increment Number:
School District: PC ICON Shelter Systems Inc
Date Created: 2024-02-28 04:50:51

	X1. OTHER:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Load test for identified product(s):	**Test**	**LOR**	**1709A.2, 1709A.3.** Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	**b.** Installation torque for non-HS bolts	**Continuous**	**SI***	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	**c.**			

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ICON STD	WALKWAY PC
DRAWN BY	ANGEL
DATE	2/19/2024
REV	
REV DATE	

STRUCTURAL ENGINEERING
TKJ

REGISTERED PROFESSIONAL ENGINEER
TYLER K. JOHNSON
No. 34845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123290 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/07/2024

DSA 103

DISTINCTIVE STEEL SHELTERS
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HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

LS1.3B

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

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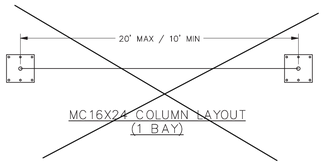
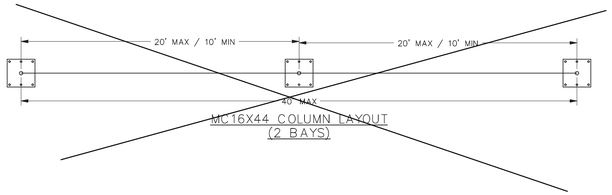
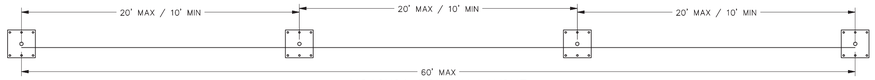


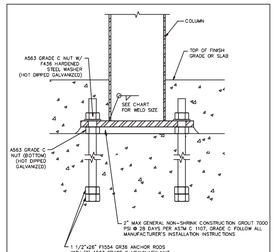
MC16X24 COLUMN LAYOUT
(1 BAY)



MC16X44 COLUMN LAYOUT
(2 BAYS)



MC16X64 COLUMN LAYOUT
(3 BAYS)



NOTES:

COLUMN BASE PLATES ARE TO HAVE DOUBLE NUTS. PLACE ONE NUT THE PLATE AND ONE NUT ON TOP WITH A WASHER UNDER THE NUT.

THE BOTTOM NUT CAN BE USED AS A LEVELING NUT.

AFTER COLUMN IS SET AND LEVELED AND THE NUTS HAVE BEEN TIGHTENED THE COLUMN MUST HAVE NON-SHRINK GROUT PLACED UNDER THE BASE PLATE BEFORE COVERING THE BASE WITH CONCRETE.

REFER TO FOOTING DETAIL FOR ROD/NUT LOCATIONS AND SIZE.

FOUNDATION ANCHORS ARE TO BE UNTORQUED.

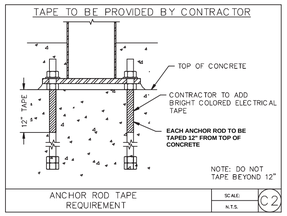
COLUMN BASE CONNECTION DETAIL	SCALE: N.T.S.	C1

ANCHOR ROD DETAIL

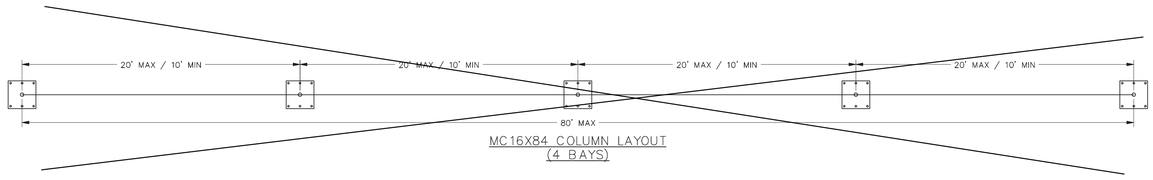
1.HEAT TREATED

2.MAX CARBON CONTENT 27%

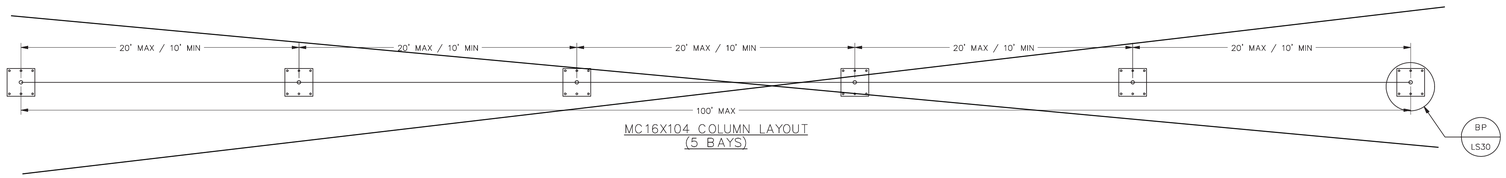
3.MAX MANGANESE CONTENT 0.6–0.9%



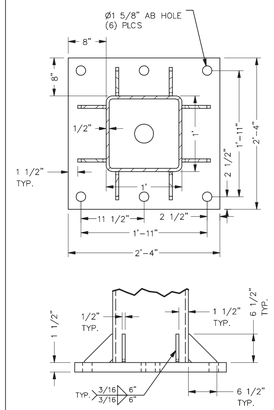
ANCHOR ROD TAPE REQUIREMENT	SCALE: N.T.S.	C2



MC16X84 COLUMN LAYOUT
(4 BAYS)



MC16X104 COLUMN LAYOUT
(5 BAYS)



BASE PLATE DETAIL | BP

NOTES:

WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

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STRUCTURAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KYLE TROUTMAN
No. 34845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

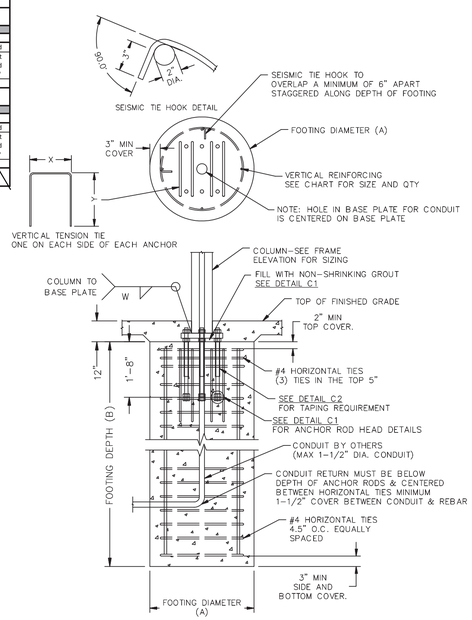
16' WIDE CANTILEVER WALKWAY FOUNDATION PLAN

MC16 - PIER

10' Height				10' Height				10' Height			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
48	138	16	7	48	120	16	7	48	108	16	7
10' Eave - 1500 psf [ ]				**10' Eave - 2000 psf [ ]**				**10' Eave - 3000 psf [ ]**			
12' Height				**12' Height**				**12' Height**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
48	138	16	7	48	120	16	7	48	102	16	7
12' Eave - 1500 psf [ ]				**12' Eave - 2000 psf [ ]**				**12' Eave - 3000 psf [ ]**			
16' Height				**16' Height**				**16' Height**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
48	144	16	7	48	126	16	7	48	114	16	7
16' Eave - 1500 psf [ ]				**16' Eave - 2000 psf [ ]**				**16' Eave - 3000 psf [ ]**			

10' Height			
Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
24	47	6	3/8
10' Eave - Rebar & Weld			
12' Height			
Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
24	47	6	3/8
12' Eave - Rebar & Weld			
16' Height			
Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
24	47	6	3/8
16' Eave - Rebar & Weld			

SEE BASE PLATE DETAIL FOR CORRECT ANCHOR LAYOUT

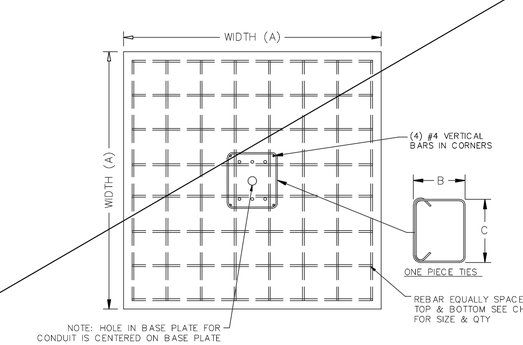


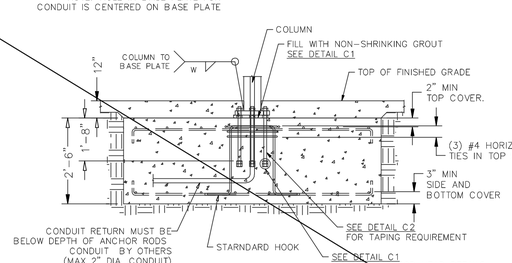
MC16 - SPREAD

10' Height				10' Height				10' Height			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
102	30	16	5	102	30	16	5	102	30	16	5
10' Eave - 1500 psf [ ]				**10' Eave - 2000 psf [ ]**				**10' Eave - 3000 psf [ ]**			
12' Height				**12' Height**				**12' Height**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
105	30	16	5	105	30	16	5	105	30	16	5
10' height - Side Columns				**10' height - Side Columns**				**10' height - Side Columns**			
12' Eave - 1500 psf [ ]				**12' Eave - 2000 psf [ ]**				**12' Eave - 3000 psf [ ]**			
16' Height				**16' Height**				**16' Height**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
105	30	16	5	105	30	16	5	105	30	16	5
16' Eave - 1500 psf [ ]				**16' Eave - 2000 psf [ ]**				**16' Eave - 3000 psf [ ]**			

10' Height			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
31	31	5	3/8
10' Eave - Rebar & Weld			
12' Height			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
31	31	5	3/8
10' - Corner Columns			
12' Eave - Rebar & Weld			
16' Height			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
31	31	5	3/8
16' Eave - Rebar & Weld			

SEE BASE PLATE DETAIL FOR CORRECT ANCHOR LAYOUT





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16' WIDE CANTILEVER WALKWAY FOUNDATION PLAN

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A separate project application for construction is required.

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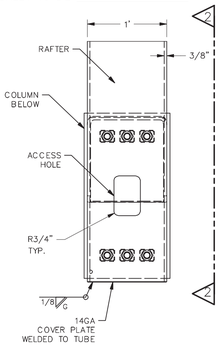
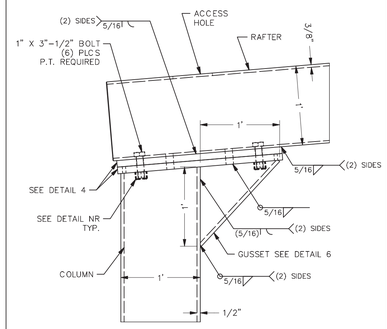
S:\Engineering\Inventor\USA 2022\PC 2022 WALKWAYS\16 FOOT\MC16X44-10W-P1.idw

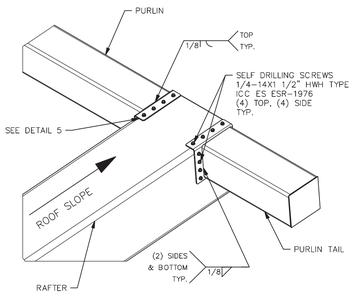
ALL STRUCTURAL FASTENERS (NUTS & BOLTS)
ON THIS SHEET TO BE HOT DIP GALVANIZED



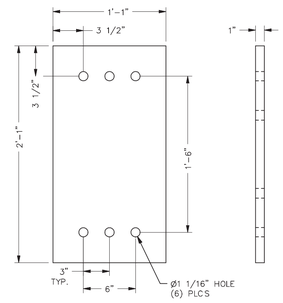
PLAN – RAFTER CONNECTION @ COLUMN | 1



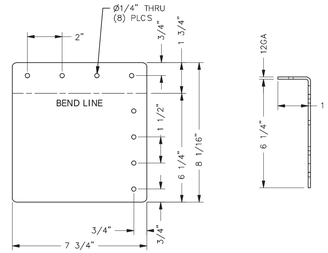
VIEW – RAFTER CONNECTION @ COLUMN | 2



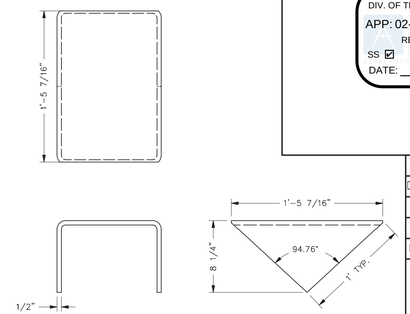
ISOMETRIC – PURLIN CONNECTION @ RAFTER | 3



COLUMN TO RAFTER PLATE DETAIL | 4

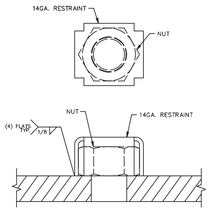


PURLIN PLATE DETAIL | 5



GUSSET DETAIL | 6

16' WIDE CANTILEVER WALKWAY FRAMING & CONNECTION DETAILS



TYPICAL NUT RESTRAINT SYSTEM | NA

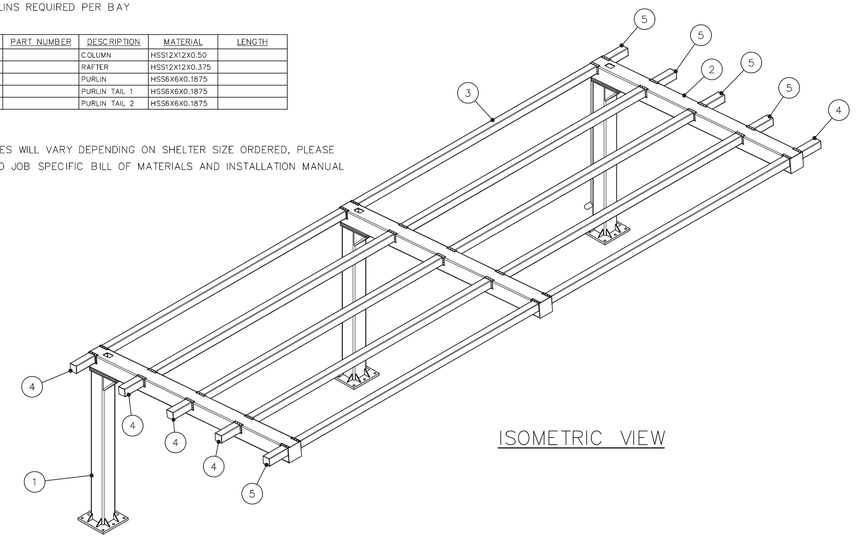
**IF MULTI RIB ROOFING IS SELECTED ONLY (4) PURLINS ARE REQUIRED PER BAY

**IF MEGA RIB ROOFING IS SELECTED ONLY (4) PURLINS ARE REQUIRED PER BAY

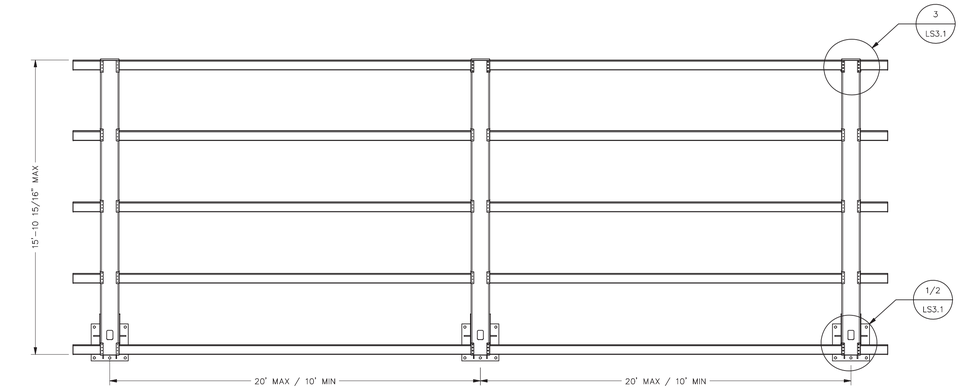
**IF STANDING SEAM ROOFING IS SELECTED ADDITIONAL PURLINS ARE REQUIRED
(5) PURLINS REQUIRED PER BAY

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH
1	*		COLUMN	HSS12X12X0.50	
2	*		RAFTER	HSS12X12X0.375	
3	*		PURLIN	HSS6X6X0.1875	
4	5		PURLIN TAIL 1	HSS6X6X0.1875	
5	5		PURLIN TAIL 2	HSS6X6X0.1875	

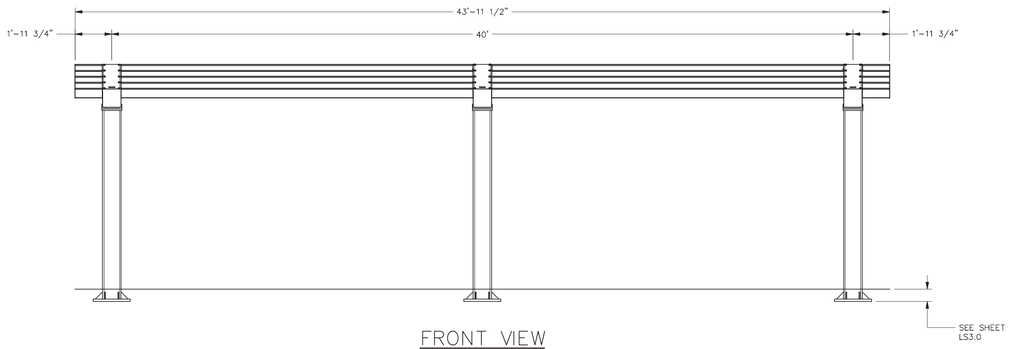
*NOTE:
QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL



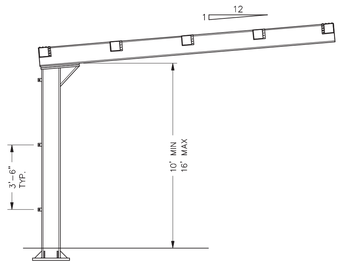
ISOMETRIC VIEW



PLAN VIEW



FRONT VIEW



SIDE VIEW

MODEL DESIGNATION	
MC16X24	1 BAY
MC16X44	2 BAY
MC16X64	3 BAY
MC16X84	4 BAY
MC16X104	5 BAY

MODEL SHOWS 2 BAY SHELTER (MC16X44)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

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STRUCTURAL ENGINEERING
TKJ

REGISTERED PROFESSIONAL ENGINEER
KYLE T. JOHNSON
No. 84845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

APPROVED
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APP: 04123290 PC
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DATE: 08/07/2024

16' WIDE CANTILEVER WALKWAY
FRAMING & CONNECTION
DETAILS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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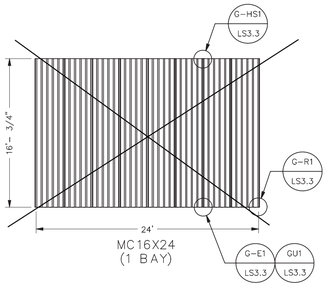
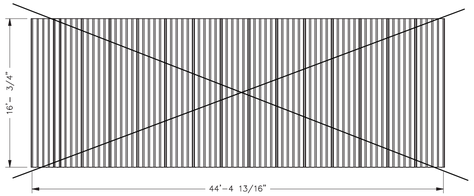
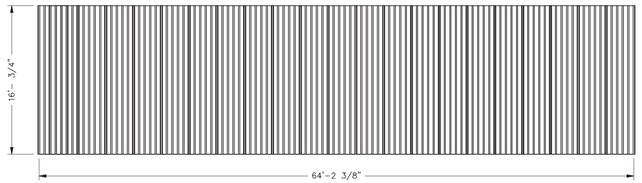
NOTE: DETAILS TYPICAL FOR ALL LAYOUTS



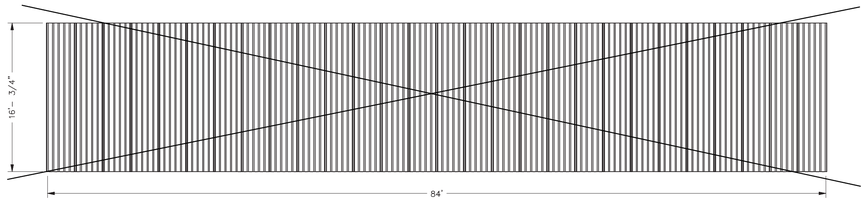
MC16X24
(1 BAY)



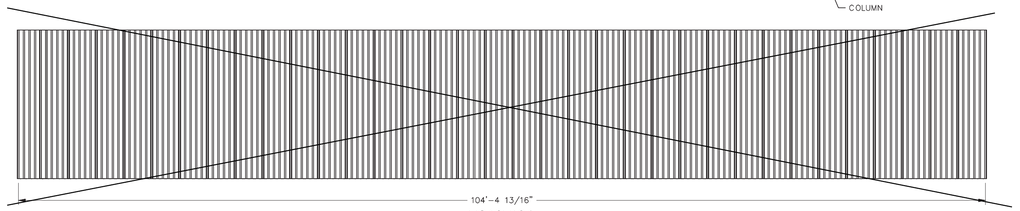
MC16X44
(2 BAYS)



MC16X64
(3 BAY)



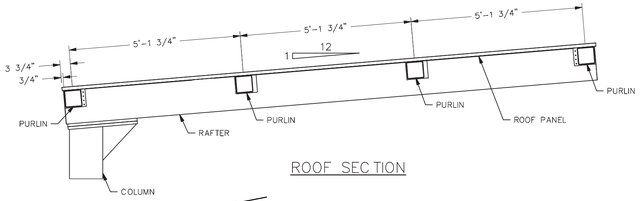
MC16X84
(4 BAY)



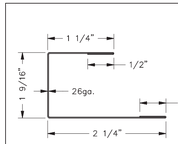
MC16X104
(5 BAY)

FASTENER SCHEDULE @ EACH PURLIN

FASTENER SCHEDULE
NOT TO SCALE



ROOF SECTION



SECTION PROPERTIES
Fy = 50 ksi
A = 0.082 in^2
Ix = 0.029 in^4
Iy = 0.039 in^4
Sx = 0.019 in^3
Sy = 0.049 in^3

EAVE TRIM

1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

ICON STD	WALKWAY PC
DRAWN BY	ANGEL
DATE	2/19/2024
REV	
REV DATE	

STRUCTURAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KYLE J. TAYLOR
No. 94845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

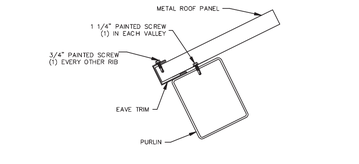
16' WIDE CANTILEVER WALKWAY MEGA RIG ROOFING

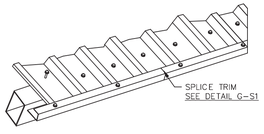
NOTE: STITCH OR LAP SCREWS ARE NOT REQUIRED ALONG THE RIB

MEGA RIB ROOF INSTALLATION — ROOF

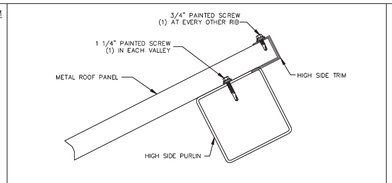
TRIM INSTALLATION — TRIM

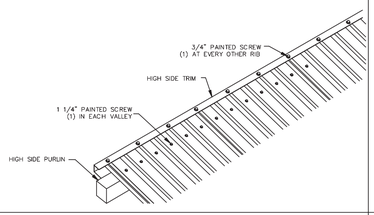
NOTE: SEE DETAILS GU1 AND GU2 IF INSTALLING OPTIONAL GUTTER SYSTEM



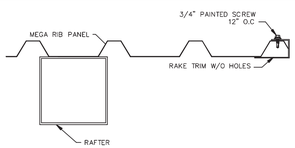


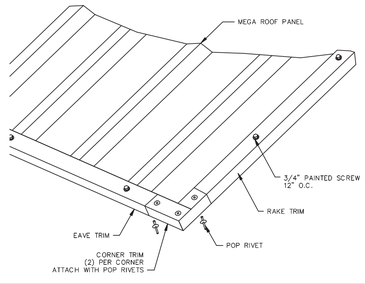
MEGA RIB ROOF EAVE CONNECTION DETAIL — G-E1





MEGA RIB HIGH SIDE CONNECTION DETAIL — G-HS1





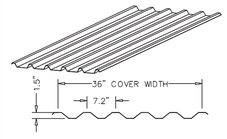
MEGA RIB ROOF CONNECTION AT RAKE — G-R1

ROOF NOTES

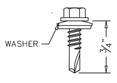
ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

CLASS A ROOFING



MEGA RIB PANEL SECTION
24 ga. Fy=50 ksi Fu=65 ksi
UES EVALUATION REPORT #270

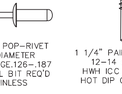


3/4" PAINTED SCREW
1/4-14 x 3/4"
HWH
ICC ESR-1976
HOT DIP GALVANIZED

SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.091 in^4
Se=0.1098 in^3
Ma=2.7433 in-kips

BOTTOM IN COMPRESSION
Ix=0.089 in^4
Se=0.0973 in^3
Ma=2.430 in-kips



PAINTED POP-RIVET
1/8"DIAMETER
GRIP RANGE.126-.187
#30 DRILL BIT REQ'D
STAINLESS

1 1/4" PAINTED SCREW
12-14 x 1 1/4"
HWH ICC ESR-1976
HOT DIP GALVANIZED

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

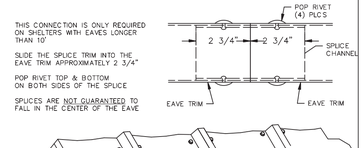
FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

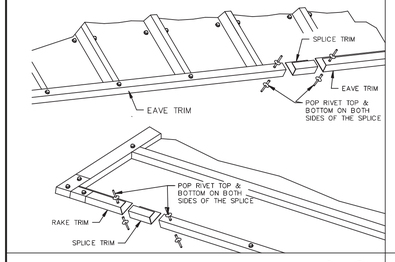
SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

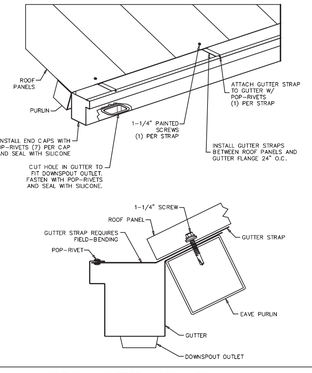
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123290 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/07/2024

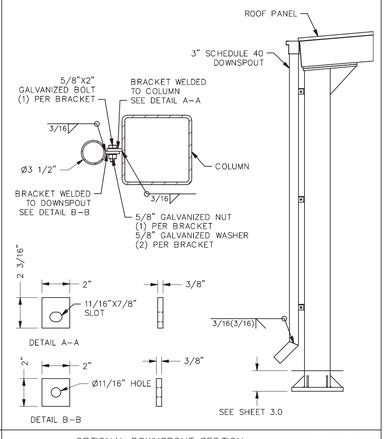




MEGA RIB ROOF SPLICE CONNECTION DETAIL — G-S1



OPTIONAL GUTTER INSTALLATION
MEGA RIB ROOF — GU1



OPTIONAL DOWNSPOUT SECTION
MEGA RIB ROOF — GU2

16' WIDE CANTILEVER WALKWAY
MEGA RIB ROOFING PLAN

ICON Shelter Systems Inc

DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

LS3.3B

S:\Engineering\Inventor\Standard Parts\ROOF PARTS\EAVE TRIM.ipt

PRINTED ON :

ELECTRICAL INFORMATION - RECTANGULAR GABLE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN.
THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN.
IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY.
ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR
ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

STEPS:

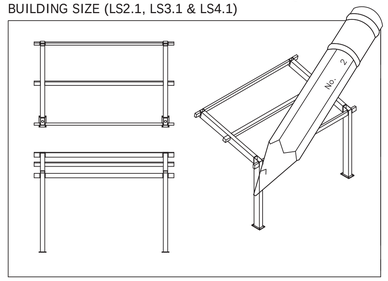
1. CONDUIT HOLE SIZE (DETAIL A)

2. ELECTRICAL EXIT HOLES (DETAIL B)

3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)

4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

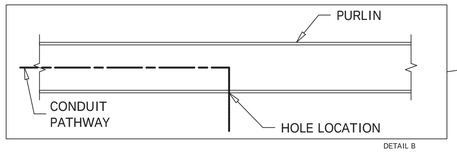
☐ IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET REQUIRED FOR BUILDING SIZE (LS2.1, LS3.1 & LS4.1)



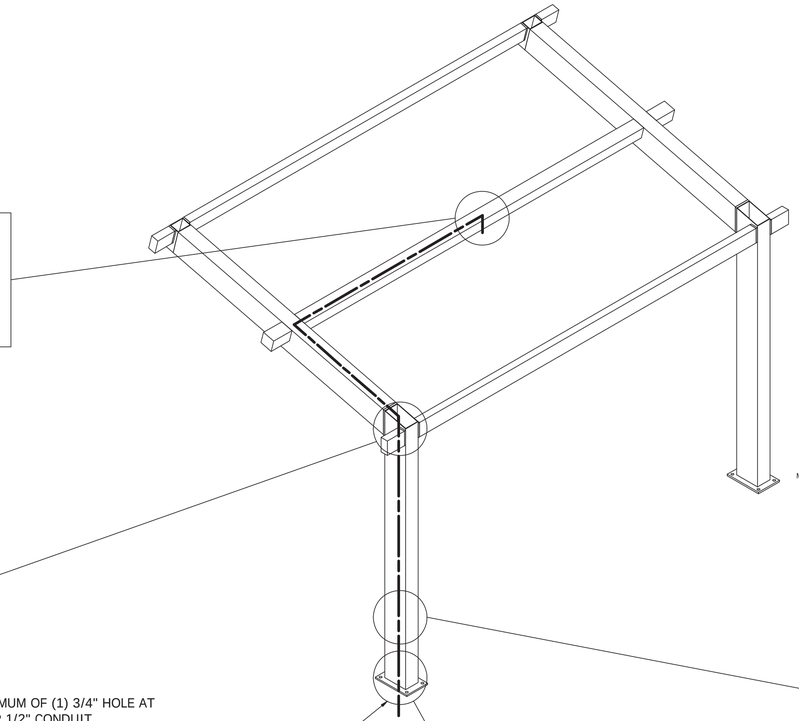
DETAIL D

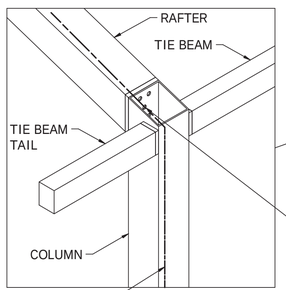
OPTIONAL EXIT HOLES
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY)
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZES.

(2) EXIT HOLES PER RAFTER
(2) EXIT HOLES PER PURLIN



DETAIL B

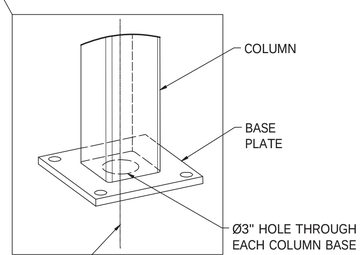




DETAIL A

ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT.
IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

☐ 3/4" CONDUIT (1" HOLES)
☐ 1" CONDUIT (1 1/4" HOLES)



BASE DETAIL

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PC FOR ORDER-SPECIFIC CONFIGURATION.

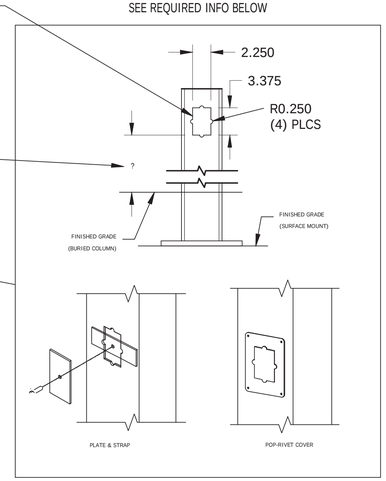
OPTIONAL CUTOUTS

USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY)
SEE REQUIRED INFO BELOW

☐ (1) STANDARD CUTOUT SIZE SHOWN FOR TYPICAL GFCI
MAXIMUM CUT OUT SIZE 6 VERTICAL X 4 WIDE
CENTERED ON FACE OF COLUMN
NOT ALLOWED IN 6" FACE

☐ (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.

☐ (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN
18" MIN. FROM TOP OF FINISHED GRADE



DETAIL C

(4) COVER PLATES PROVIDED UPON REQUEST
(CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

☐ PLATE & STRAP
☐ POP-RIVET COVER PLATE
HOW MANY REQUIRED?_____

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123290 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/07/2024

ICON STD	WALKWAY PC
DRAWN BY	ANGEL
DATE	2/19/2024
REV	
REV DATE	

STRUCTURAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KYLE TIMMER
No. S4845
Exp. 6-30-25
STRUCTURAL
STATE OF CALIFORNIA

OPTIONAL ELECTRICAL ACCESS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

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1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS5.0B

PRINTED ON :

DESIGN CRITERIA

BUILDING DESIGN PARAMETERS (CBC 1603A.1 & ASCE 7-16)

VERTICAL LOADING

ROOF DEAD LOAD	N/A	PSF
ROOF LIVE LOAD	N/A	PSF

SEISMIC DESIGN CRITERIA

Ss=3.0	Sms=3.60	Sds=2.40	
S1=1.0	Sm1=1.5	SD1=1.0	
Fv=1.7	Fa=1.2	Ie=1.0	SITE CLASS=D
SDC=E			

VALUES FROM ASCE 7-16, CHAPTERS 13 & 15

BASIC SEISMIC FORCE RESISTING STRUCTURE	R	Cd	Ω₀
FREE STANDING SIGN	3.0	3.0	1.75
SEISMIC DESIGN FORCE (SIGN)	----V= .56W (ASD)		

BASIC SEISMIC FORCE RESISTING CABINETS	Rp	Ap	Ω₀
SIGN CABINETS	2.5	1.0	2.0
SEISMIC DESIGN FORCE (CABINETS)	---- Fp =.72 Wp (ASD)		

WIND DESIGN (ASCE 7-16, CHAPTER 29)

BASIC WIND SPEED (3 SECOND GUST) = 130 MPH

Kz=.90	Kd=.85	Kzt=1.0	Cf=1.80	G=.85
q=33.1 PSF	Fh=50.6 PSF			

NOTE:
GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREE STANDING SIGN AND SCOREBOARD STRUCTURES.

SHEET INDEX

GN-1	GENERAL NOTES
GN-2	SAMPLE DSA 103 FORMS
GN-3	SAMPLE DSA 103 FORMS
GN-4	SAMPLE DSA 103 FORMS
S-1	PLAN, ELEVATION, SECTION AND DETAILS
S-2	OPTIONAL CABINET ELEVATION AND SECTION

TOTAL SHEETS = 6 SHEETS

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

DESIGN FOR WINDSPEED 130 MPH, EXP. C, RISK CAT.: II

FASTENERS:

1. BOLTS: ASTM A307 (Fnv=27 KSI)
2. NUTS AND WASHERS SHALL BE USED WITH ALL FASTENERS AND SHALL BE COMPITABLE WITH FASTENERS BE SIZES, MATERIAL TYPES AND HOLE SIZES, IN ACCORDANCE WITH AISC SPECIFICATIONS, UNLESS NOTED OTHREWISE.
3. THE MATERIAL/COATING TYPE SPECIFIED FOR FASTENERS (GALVANIZED) BASED ON ASSUMED EXPOSURE CONDITIONS AND THE RECOMMENDATION SET FORTH BY AISC, INACCORDANCE WITH COMMON INDUSTRY INDUSTRY PRACTICE. NO GUARANTEE TO PREVENT CORROSION THROUGHOUT THE LIFE OF A STRUCTURE IS IMPLIED. FASTENERS SHALL BE MONITORED PERIODICALLY FOR SIGNS OF DETERIORATION.
4. ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN PLACE ANCHORS BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304, ASTMB193, GRADE 45 MIN.), HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM, OR ASTM F2329), OR PROTECTED WITH CORRSION-PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2 PERCENT 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. EXAMPLE PROPRIETARY COATING THAT DO COMPLY WITH 1,000-HOUR REQUIREMENT INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: QUIK GUARD BY SIMPSON, KWIK COTE BY HILTI, STALGARD BY ELCO, VISTACORR BY SFS INTEC, ETC.

ADDITIONAL NOTES:

1. THE LOCATION OF THE SIGN(S) MUST CONFIRM TO ALL REQUIREMENTS FOR SET-BACK, FIRE ACCESS LANES ANS ACCESSIBLE ROUTES OF TRAVEL AS REQUIRED PER CBC.
2. THE CONTRACTOR SHALL FIELD VERIFY THAT EXISTING AND PROPOSED SITE CONDITIONS ARE CONSITENT WITH THESE DRAWINGS PRIOR TO START OF ANY WORK. NOTIFY ENGINEER OF RECORD IMMEDIATELY IF SITE CONDITIONS VARY FROM THESE DRAWINGS.
3. CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND JOBSITE SAFETY. PROPOSED SITE CONDITIONS MUST BE CONSITENT WITH REQUIRED CONDITIONS IN THESE DRAWINGS.

SCOPE OF WORK

CONSTRUCTION OF FREE-STANDING MARQUEE SIGN

1. THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF RECORD FOR SITE APPLICATION IS NOT REQUIRED TO STAMP AND SIGN THIS PLAN, ONLY THE SPECIFIC DRAWINGS. PROVIDED HE/SHE HAS INCLUDED AND SIGNED A STATEMENT OF CONFORMANCE INCORPORATION ON THE SITE SPECIFIC DRAWINGS.
2. CHANGES TO THE APPROVED PC DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY THE REVISION APPROVED BY THE DIVISION OF STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART1, TITLE 24, CCR.
3. A DSA PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINE IN SECTION 4-343, PART 1, TITLE 24, CCR, CLASS 3 INSPECTOR.
4. FOLLOW SAFETY REQUIREMENTS DURING DEMOLITION AND CONSTRUCTION PER CFC CHAPTER 33.

CABINETRY:

1. ALL FABRICATION SHALL OCCUR IN THE SHOP OF AN APPROVED FABRICATOR WITH QUALIFIED WELDERS AND APPROVED BY THE WELDING INSPECTOR.
2. THE CABINETRY MANUFACTURER SHALL PROVIDE A WRITTEN STATEMENT, STATING THE CABINETS ARE DESIGNED AND FABRICATED TO WITHSTAND THE WIND LOADS PER 2022 CBC.

PROJECT / INSPECTOR OF RECORD, CLASS 3 (MINIMUM)

AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

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 (CEC), 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
2022 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

APPLICABLE STANDARDS 2022 CALIFORNIA BUILDING CODE

ALUMINUM:	ALUMINUM DESIGN MANUAL, ADM-2020
	AWS D1.2-14 (STRUCTURAL WELDING)
STRUCTURAL CONCRETE:	ACI 318-19
	ICC-ES AC 193-21 (MECHANICAL ANCHORS)
	ICC-ES AC 308-21 (ADHESIVE ANCHORS)
STRUCTURAL STEEL:	AISC 341-16 (SEISMIC PROVISIONS FOR STEEL BUILDINGS)
	AISC 360-16 (SPECIFICATION FOR STEEL BUILDINGS)
	AWS D1.1-15 (STRUCTURAL WELDING)
	SDI RD-2017 (STEEL ROOF DECK)
	SDI-C-2017 (COMPOSITE STEEL FLOOR DECK)
	SJI 100-20 (STEEL BAR JOIST TRUSSES)
COLD-FORMED STEEL:	AISI S2100-16 (DESIGN OF COLD-FORMED STEEL)
WOOD FRAMING:	ANSI/APA A190.1-2017 (GLU-LAM BEAMS)
	AWPA C1-03 (PRESSURE TREATED WOOD)
	ASTM D5055 (PRE-FAB I-JOISTS)
	DOC PS1, DOC PS2, APA PRP 210 (WOOD STRUCTURAL PANELS)
	ANSI/AWC NDS (DESIGN SPECIFICATION FOR WOOD)
	SDPWS (SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC)
	AITC 104 (TYPICAL CONSTRUCTION DETAILS)
MASONRY STRUCTURES:	TMS 402-2016 (BUILDING CODE FOR MASONRY STRUCTURES)
	TMS 602-2016 (SPECIFICATION FOR MASONRY STRUCTURES)

GENERAL:

1. FRAMING CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE FRAMED SIMILAR TO DETAILS SHOWN FOR THE RESPECTIVE MATERIALS.
2. ALL CONSTRUCTION SHALL CONFORM TO 2022 CBC AND ALL APPLICABLE LOCAL ORDINANCES.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
4. NOTWITHSTANDING ANY REFERENCE IN THE CONSTRUCTION DOCUMENTS TO ANY RULE OR REGULATION, THE STRUCTURAL ENGINEER IS NOT ASSUMING ANY DUTY TO PROVIDE SUPERVISION OF CONSTRUCTION METHODS OR PROCESSES.
5. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DIVISION OF STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

SOIL:

1. SOIL PRESSURE AND BEARING VALUES ARE BASED ON 2022 CBC TABLE 1806A.2 FOR CLASS 5 SOILS. PASSIVE PRESSURE IS 200 LB/FT (VALUE INCLUDES A FACTOR OF 2 PER 1806A3.4 INCREASE FOR POLE) INSPECTION BY PROJECT INSPECTOR IS REQUIRED. ALLOWABLE BEARING PRESSURE IS 1500 PSF.
2. IF SOFT, COLLAPSING, UNSTABLE SOIL, OR GROUND WATER ARE ENCOUNTERED, IMMEDIATELY CONTACT GEOTECHNICAL ENGINEER OR ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.
3. IF THE SOIL UNDER THE STRUCTURE INCLUDES CLAY, OR OTHER EXPANSIVE MATERIALS, IT IS RECOMMENDED TO REPLACE THE SOIL WITH COMPACTED (95%) GRANULAR SOIL OR IMPLEMENT METHODS TO ACCOMODATE POTENTIAL EXPANSION.

CAST IN PLACE CONCRETE:

1. CALIFORNIA REGISTERED CIVIL ENGINEER TO DESIGN MIX DESIGNS. ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS NOTED BELOW. CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE w/ ACI 318-19 TABLE 19.3.2.1 AND HAVE A MINIMUM WATER/CEMENT RATIO OF .45

USE	WEIGHT PCF	MIN. COMPRESSIVE STRENGTH f'c
FOUNDATIONS	150	4500

2. AGGREGATES SHALL BE NATURAL SAND AND ROCK CONFORMING TO ASTM C33. MAX. AGGREGATE SIZE IS 1½"
3. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE V.
4. ALL EXPOSED EDGES OF CONCRETE SHALL RECEIVE 3/4" MINIMUM CHAMFER OR AS SHOWN ON ARCHITECTURAL DRAWINGS.
5. NO PIPES OR DUCTS ARE TO BE PLACED IN CONCRETE SLABS UNLESS SPECIFICALLY DETAILED.
6. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO THE POURING OF ANY CONCRETE OR GROUT.
7. NO STAKES FOR FRAMING WILL BE ALLOWED IN WET CONCRETE.
8. MAXIMUM EXPOSURE CLASSES TO BE F2, S2, AND C1 PER ACI 318-19, TABLE 19.3.1.1

REINFORCEMENT STEEL:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40 FOR #3 AND SMALLER AND GRADE 60 FOR #4 AND LARGER. REINFORCING STEEL TO BE WELDED AND ALL LONGITUDINAL GRADE BEAM REINFORCING STEEL SHALL CONFORM TO ASTM A706.

2. MINIMUM CONCRETE COVERAGE: THE FOLLOWING MINIMUM COVERAGE SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE:
   - SLABS ON GRADE ---------- CENTER OF SLAB (3" MIN. COVER AGAINST EARTH)
   - CAST AGAINST & EXPOSED TO EARTH ----- 3"
   - FORMED, EXPOSED TO EARTH AND WEATHER;
     - #6 AND LARGER ----- 2"
     - #5 AND SMALLER ----- 1-½"
   - NOT EXPOSED TO EARTH OR WEATHER;
     - SLAB, WALLS, JOISTS - #14 - #18 ----- 1-½"
     - #11 & SMALLER ----- ¾"
   - BEAMS, GIRDERS, COLUMNS ----- 1-½"

3. REBAR LAP SPLICES PER DETAIL 9/S-1

4. SPLICES OF HORIZONTAL REBAR IN WALLS AND FOOTINGS SHALL BE STAGGERED.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
   - STRUCTURAL PLATES ---------- A.S.T.M..A-36
   - HSS TUBES ---------- A.S.T.M. A-500, GR. "B"
   - STEEL ANGLES ---------- A.S.T.M. A-36
   - BOLTS ---------- A.S.T.M. A-307

   ALL FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF AISC 360, 15TH EDITION.
2. NO STRUCTURAL STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER OF RECORD
3. ALL SHOP WELDING SHALL BE PERFORMED IN THE SHOP OF AN APPROVED FABRICATOR
4. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD
5. BOLTS WITH "UPSET" OR "ROLLED" THREADS ARE NOT ALLOWED. BOLT DIAMETERS INDICATED ARE SHANK DIAMETERS
6. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ZINC RICH PRIMER OR EQUIVALENT TO PREVENT ELECTROLYSIS OF DISSIMILAR METALS.

ALUMINUM:

1. ALUMINUM CONSTRUCTION SHALL COMPLY WITH AA ASM 35, AA ADM 1 AND CHAPTER 16A OF THE 2022 CALIFORNIA BUILDING CODE (CBC)

2. TESTING AND INSPECTION OF ALUMINUM SHALL BE IN ACCORDANCE WITH THE PROVISIONS FOR STEEL IN CHAPTER 17A OF 2022 CBC EXCEPT REFERENCES TO AWSD1.1 SHALL BE CHANGED TO AWSD1.2

3. ALL ALUMINUM SHALL BE GRADE 6061-T6 U.N.O.

THIS DOCUMENT, WHICH INCORPORATES THE DESIGN CONCEPTS, DRAWINGS, SPECIFICATIONS AND WRITTEN MATERIAL CONTAINED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF AD ENGINEERING GROUP AND CANNOT BE COPIED OR USED IN WHOLE OR PART FOR ANY BUT ITS ORIGINAL PURPOSE, WITHOUT THE WRITTEN AUTHORIZATION OF ENCORE IMAGE OR AD ENGINEERING GROUP.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOONT
No. 3834
Exp. Date 3-31-24
STRUCTURAL
STATE OF CALIFORNIA

AD Engineering Group
135 E. Florida Ave,Ste. A
Hemet, CA 92543
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122558 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/06/2023

GENERAL NOTES

Encore Image Group

CLIENT:
ENCORE IMAGE
303 WEST MAIN ST.
ONTARIO, CA. 91762

DRAWN	R.D.B
CHECKED	A.Q.D.
DATE	07-19-2023
SCALE	AS NOTED
JOB NO.	31-124
SHEET	GN-1

31-124

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

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.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

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: • 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.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** 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.
☑	**b.** 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.
☐	**b.** Determine capacities of test piles and conduct additional load tests as required.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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. * 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

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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: **Eliminated**	**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.**

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**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**	**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.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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

NOTE: A SEPARATE DSA-103 SHALL BE SUBMITTED FOR EACH SITE-SPECFIC APPLICATION. THIS COPY OF DSA-103 SHALL BE COMPILED, PRINTED ON 8½"x11" PAPER AND STAMPED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER OF RECORD OF THE SPECIFIC PROJECT.

THIS DOCUMENT, WHICH INCORPORATES THE DESIGN CONCEPTS, DRAWINGS, SPECIFICATIONS AND WRITTEN MATERIAL CONTAINED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF AD ENGINEERING GROUP AND CANNOT BE COPIED OR USED IN WHOLE OR PART FOR ANY BUT ITS ORIGINAL PURPOSE, WITHOUT THE WRITTEN AUTHORIZATION OF ENCORE IMAGE OR AD ENGINEERING GROUP.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOONT
No. 3834
Exp. Date 3-31-24
STRUCTURAL
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122558 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 09/06/2023

SAMPLE DSA 103 FORMS

CLIENT:
ENCORE IMAGE
303 WEST MAIN ST.
ONTARIO, CA. 91762

DRAWN	R.D.B
CHECKED	A.Q.D.
DATE	07-19-2023
SCALE	AS NOTED
JOB NO.	31-124
SHEET	GN-2

31-124

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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.**			

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: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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.

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: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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.

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: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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.

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: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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.

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: 04-122558
DSA File Number:
School Name: Marquee Sign PC Drawing
Increment Number:
School District: Encore Image
Date Created: 2023-07-25 03:51:57

	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

NOTE: A SEPARATE DSA-103 SHALL BE SUBMITTED FOR EACH SITE-SPECFIC APPLICATION. THIS COPY OF DSA-103 SHALL BE COMPILED, PRINTED ON 8½"x11" PAPER AND STAMPED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER OF RECORD OF THE SPECIFIC PROJECT.

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOONT
No. 3834
Exp. Date 3-31-24
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122558 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/06/2023

SAMPLE DSA 103 FORMS

CLIENT:
ENCORE IMAGE
303 WEST MAIN ST.
ONTARIO, CA. 91762

DRAWN	R.D.B
CHECKED	A.Q.D.
DATE	07-19-2023
SCALE	AS NOTED
JOB NO.	31-124
SHEET	GN-3

31-124

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:
04-122558	Marquee Sign PC Drawing	Encore Image
DSA File Number:	**Increment Number:**	**Date Created:** 2023-07-25 03:51:57

	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:	School Name:	School District:
04-122558	Marquee Sign PC Drawing	Encore Image
DSA File Number:	**Increment Number:**	**Date Created:** 2023-07-25 03:51:57

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.

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

Application Number:	School Name:	School District:
04-122558	Marquee Sign PC Drawing	Encore Image
DSA File Number:	**Increment Number:**	**Date Created:** 2023-07-25 03:51:57

	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 2800# (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: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number:	School Name:	School District:
04-122558	Marquee Sign PC Drawing	Encore Image
DSA File Number:	**Increment Number:**	**Date Created:** 2023-07-25 03:51:57

Name of Architect or Engineer in general responsible charge:
Lonnie Mount

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date: 07/25/2023

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOUNT
No. 3834
Exp. Date 3-31-24
STRUCTURAL
STATE OF CALIFORNIA

DSA STAMP

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122558 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/06/2023

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

Application Number:	School Name:	School District:
04-122558	Marquee Sign PC Drawing	Encore Image
DSA File Number:	**Increment Number:**	**Date Created:** 2023-07-25 03:51:57

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

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DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOUNT
No. 3834
Exp. Date 3-31-24
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122558 PC
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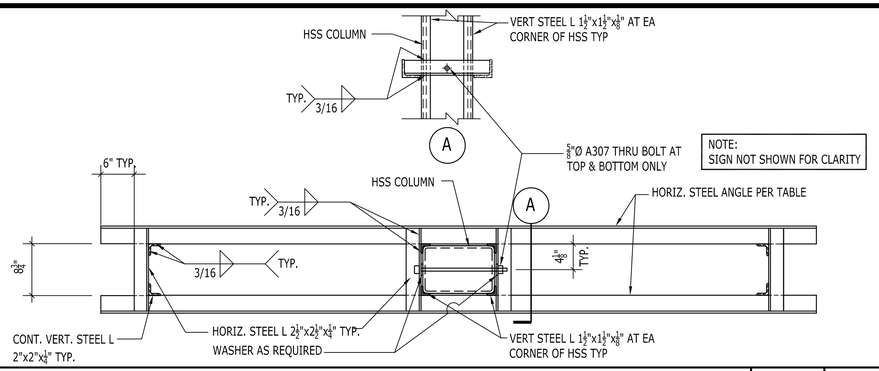
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/06/2023

SAMPLE DSA 103 FORMS

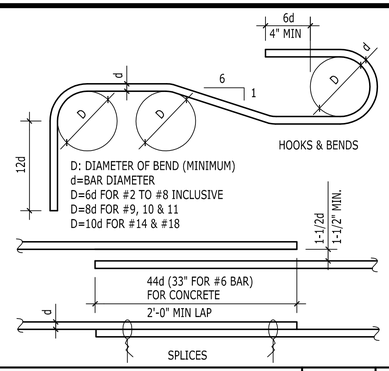
CLIENT:
ENCORE IMAGE
303 WEST MAIN ST.
ONTARIO, CA. 91762

DRAWN	R.D.B
CHECKED	A.Q.D.
DATE	07-19-2023
SCALE	AS NOTED
JOB NO.	31-124
SHEET	GN-4

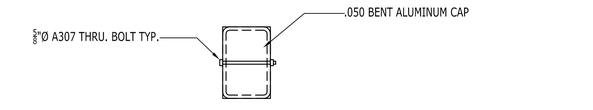
31-124



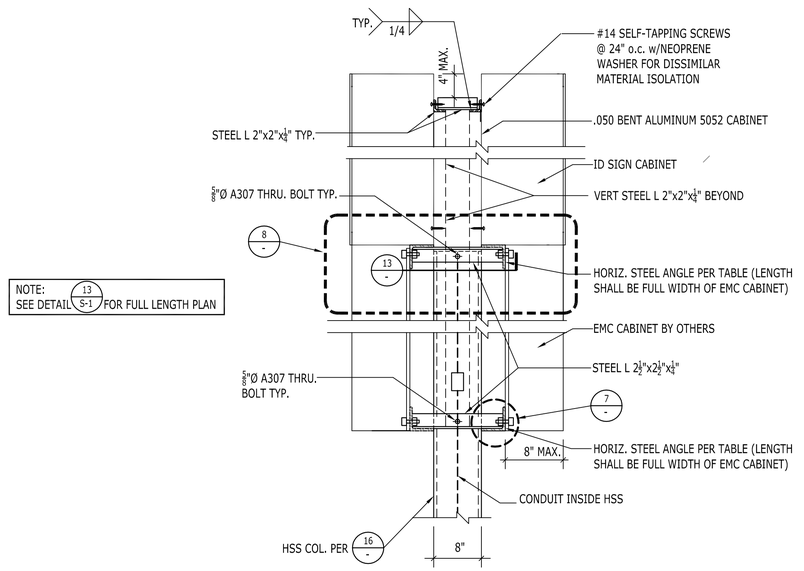
PLAN VIEW AT EMC CABINET | SCALE 1"=1'-0" | 13



TYP. REINF. BAR DETAILS | SCALE N.T.S. | 9



PLAN VIEW - CAP PLATE AT TOP OF HSS



SIGN ATTACHMENT DETAILS | SCALE 1"=1'-0" | 2

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

DESIGN FOR WINDSPEED 130 MPH, EXP. C, RISK CAT.: II

NOTE:
CEC ARTICLE 250.50
GROUNDING EARTH RESTANCE SHALL NOT EXCEED 25 OHMS. IF SINGLE ROD PIPE OR PLATE HAS EARTH RESISTANCE IN EXCESS OF 25 OHMS, SUPPLEMENTAL GROUNDING ELECTRODES SHALL BE ADDED AT 6 FEET MIN. INTERVALS IN ORDER TO ACHIEVE EARTH RESISTANCE OF LESS THAN 25 OHMS.

NOTE:
STEEL L 1½"x1½"x⅛" AT EA CORNER OF HSS OMITTED FOR CLARITY

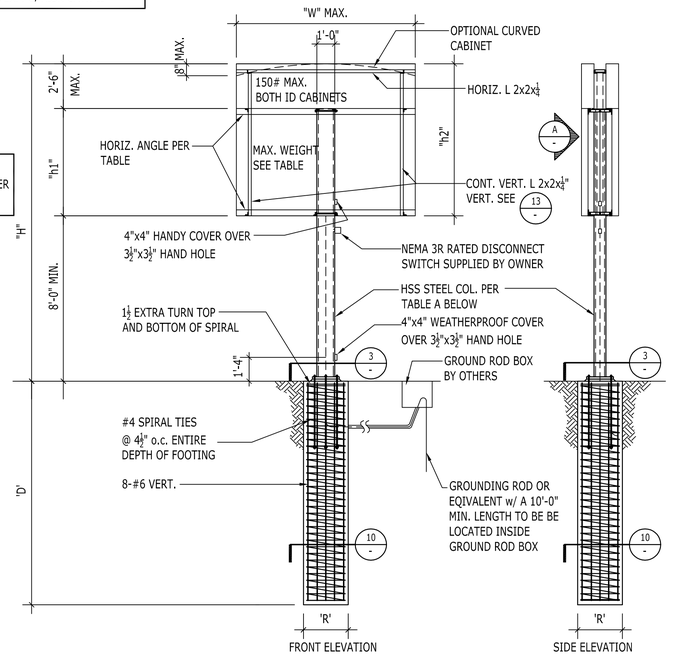
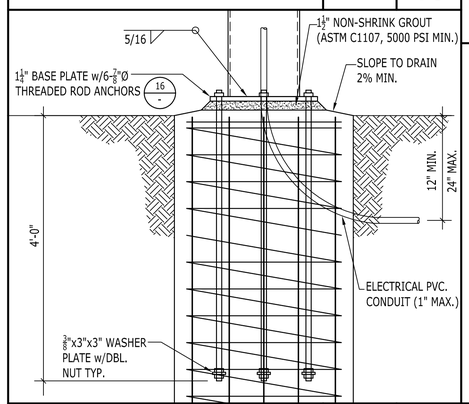


TABLE A

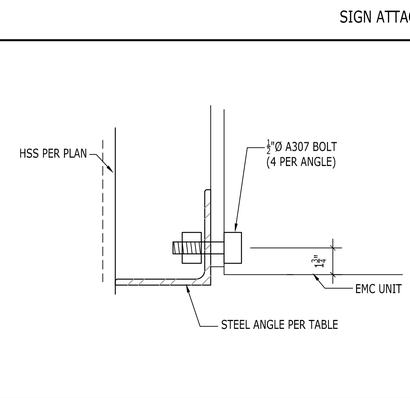
OPTION	DISPLAY WIDTH (FT) "w"	EMC DISPLAY HT (FT) "h1"	TOTAL DISPLAY HT (FT) "h2"	MAX EMC WEIGHT (LBS)	MAX TOTAL SIGN HT (FT) "H"	FOOTING DEPTH (FT) "D"	FOOTING DIA (FT) "R"	STEEL ANGLE @ EMC	HSS STEEL COLUMN
~~A1~~	~~8'-3"~~	~~3'-6"~~	~~6'-0"~~	~~700~~	~~20'-0"~~	~~11'-0"~~	~~2'-6"~~	~~L3"x3"x3/16"~~	~~12"x8"x1/4"~~
~~A2~~	~~8'-3"~~	~~4'-6"~~	~~7'-0"~~	~~700~~	~~15'-0"~~	~~10'-0"~~	~~2'-6"~~	~~L3"x3"x3/16"~~	~~12"x8"x1/4"~~
~~A3~~	~~8' 3"~~	~~5' 6"~~	~~8' 0"~~	~~700~~	~~20' 0"~~	~~11' 0"~~	~~2' 6"~~	~~L3"x3"x3/16"~~	~~12"x8"x3/8"~~
A4	8'-3"	6'-6"	8'-6"	700	20'-0"	11'-0"	2'-6"	L3"x3"x3/16"	12"x8"x3/8"
~~B1~~	~~9' 3"~~	~~3' 6"~~	~~6' 0"~~	~~900~~	~~20' 0"~~	~~11' 0"~~	~~2' 6"~~	~~L3"x3"x3/16"~~	~~12"x8"x1/4"~~
~~B2~~	~~9' 3"~~	~~4' 6"~~	~~7' 0"~~	~~900~~	~~15' 0"~~	~~10' 6"~~	~~2' 6"~~	~~L3"x3"x3/16"~~	~~12"x8"x1/4"~~
~~B3~~	~~9' 3"~~	~~5' 6"~~	~~8' 0"~~	~~900~~	~~20' 0"~~	~~11' 0"~~	~~2' 6"~~	~~L3"x3"x3/16"~~	~~12"x8"x3/8"~~
~~B4~~	~~9' 3"~~	~~6' 6"~~	~~8' 6"~~	~~900~~	~~20' 0"~~	~~11' 0"~~	~~2' 6"~~	~~L3"x3"x3/16"~~	~~12"x8"x3/8"~~
~~C1~~	~~10' 3"~~	~~3' 6"~~	~~6' 0"~~	~~1200~~	~~20' 0"~~	~~11' 6"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~C2~~	~~10' 3"~~	~~4' 6"~~	~~7' 0"~~	~~1200~~	~~15' 0"~~	~~11' 6"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~C3~~	~~10' 3"~~	~~5' 6"~~	~~8' 0"~~	~~1200~~	~~20' 0"~~	~~11' 6"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~C4~~	~~10' 3"~~	~~6' 6"~~	~~8' 6"~~	~~1200~~	~~20' 0"~~	~~11' 6"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~D1~~	~~11' 3"~~	~~3' 6"~~	~~6' 0"~~	~~1350~~	~~20' 0"~~	~~12' 0"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~D2~~	~~11' 3"~~	~~4' 6"~~	~~7' 0"~~	~~1350~~	~~15' 0"~~	~~11' 0"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~D3~~	~~11' 3"~~	~~5' 6"~~	~~8' 0"~~	~~1350~~	~~20' 0"~~	~~12' 0"~~	~~2' 6"~~	~~L3"x3"x1/4"~~	~~12"x8"x3/8"~~
~~D4~~	~~11' 3"~~	~~6' 6"~~	~~8' 6"~~	~~1350~~	~~20' 0"~~	~~12' 0"~~	~~3' 0"~~	~~L3"x3"x3/8"~~	~~12"x8"x3/8"~~
~~E1~~	~~12' 3"~~	~~3' 6"~~	~~6' 0"~~	~~1450~~	~~20' 0"~~	~~12' 0"~~	~~2' 6"~~	~~L3"x3"x3/8"~~	~~12"x8"x1/2"~~
~~E2~~	~~12' 3"~~	~~4' 6"~~	~~7' 0"~~	~~1450~~	~~15' 0"~~	~~11' 0"~~	~~2' 6"~~	~~L3"x3"x3/8"~~	~~12"x8"x3/8"~~
~~E3~~	~~12' 3"~~	~~5' 6"~~	~~8' 0"~~	~~1450~~	~~20' 0"~~	~~12' 0"~~	~~2' 6"~~	~~L3"x3"x3/8"~~	~~12"x8"x1/2"~~
~~E4~~	~~12' 3"~~	~~6' 6"~~	~~8' 6"~~	~~1450~~	~~20' 0"~~	~~11' 0"~~	~~3' 0"~~	~~L3"x3"x3/8"~~	~~12"x8"x1/2"~~

CABINET - ELEVATION AND SECTION | SCALE 1/4"=1'-0" | 16

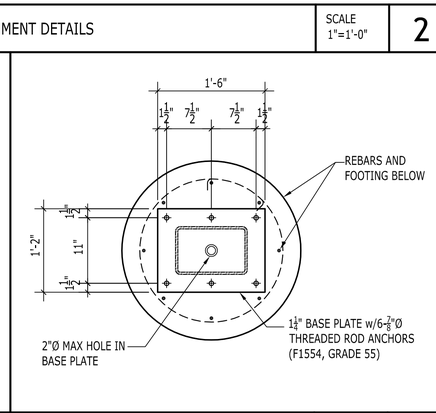
PLAN VIEW - FOOTING DETAIL | SCALE 1"=1'-0" | 10



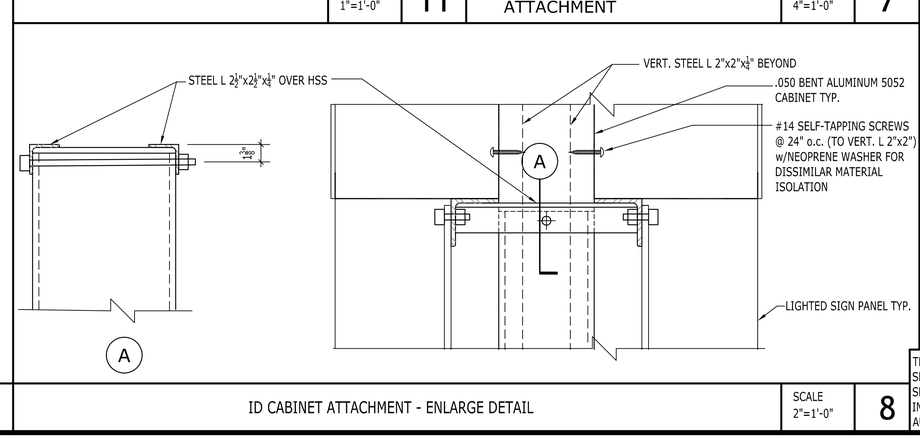
SCALE 1"=1'-0" | 11



EMC CABINET TO ANGLE ATTACHMENT | SCALE 4"=1'-0" | 7



BASE PLATE - PLAN VIEW | SCALE 1"=1'-0" | 3



ID CABINET ATTACHMENT - ENLARGE DETAIL | SCALE 2"=1'-0" | 8

SCALE | 4

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOONT
No. 3834
Exp. Date 3-31-24
STRUCTURAL
STATE OF CALIFORNIA

AD Engineering Group
135 E. Florida Ave,Ste. A
Hemet, CA 92543
Phone: 951.766.5180
Fax: 951.766.1155

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122550 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/06/2023

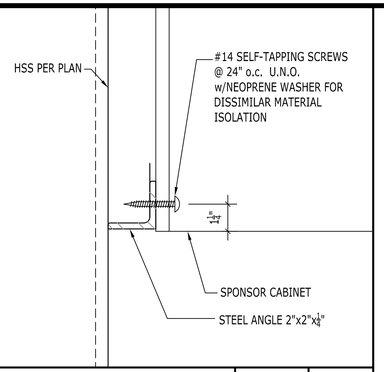
PLAN, ELEVATION, SECTION AND DETAILS

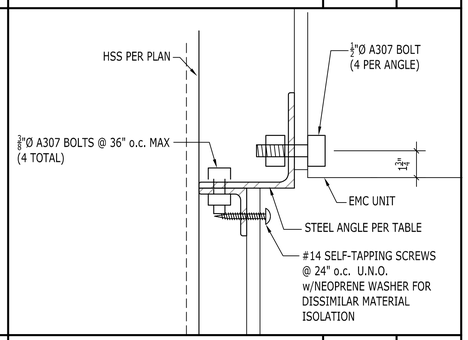
CLIENT:
ENCORE IMAGE
303 WEST MAIN ST,
ONTARIO, CA. 91762

DRAWN R.D.B
CHECKED A.Q.D.
DATE 07-19-2023
SCALE AS NOTED
JOB NO. 31-124
SHEET S-1

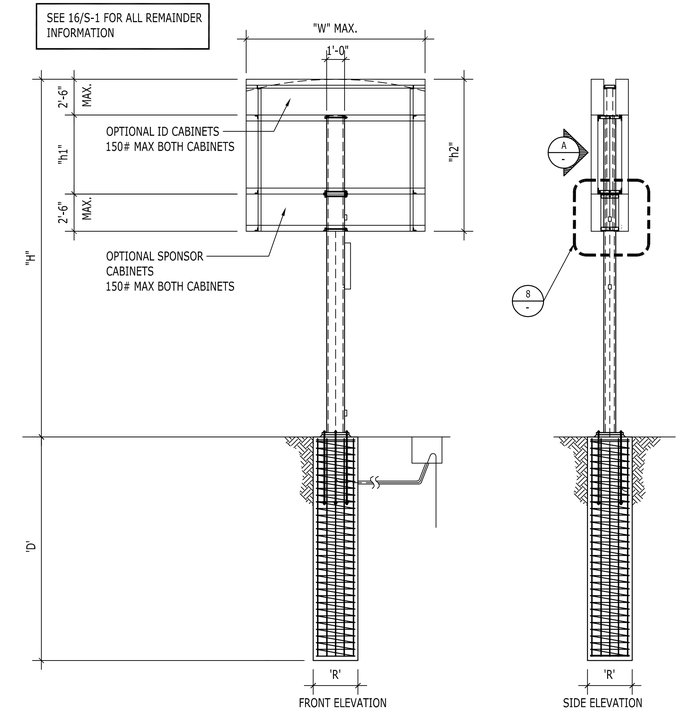
31-124

	SCALE	17		SCALE 1"=1'-0"	13	SPONSOR CABINET TO ANGLE ATTACHMENT	SCALE 4"=1'-0"	9
	SCALE	18		SCALE	14	SPONSOR CABINET ATTACHMENT TO EMC CABINET ANGLE	SCALE 4"=1'-0"	10
	SCALE	19		SCALE	15		SCALE	11
	SCALE	20		SCALE	16		SCALE	12

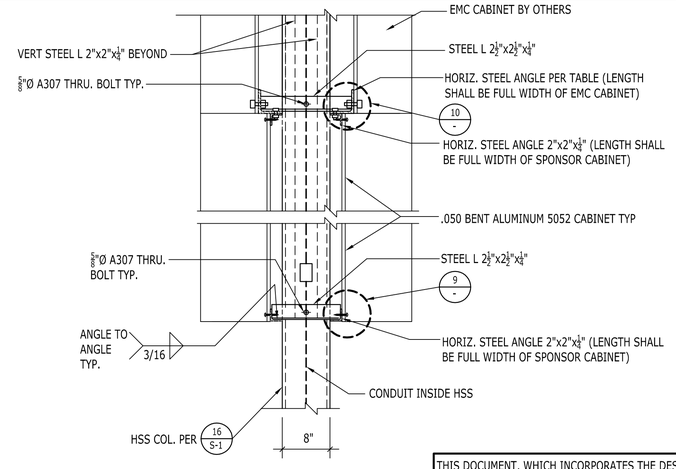




SEE 16/S-1 FOR ALL REMAINDER INFORMATION



OPTIONAL CABINET - ELEVATION AND SECTION | SCALE 1/4"=1'-0" | 3



CABINET ATTACHMENT DETAIL | SCALE 1"=1'-0" | 8

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

REGISTERED PROFESSIONAL ENGINEER
LONNIE MOONT
No. 3834
Exp. Date 3-31-24
STRUCTURAL
STATE OF CALIFORNIA

AD Engineering Group
135 E. Florida Ave,Ste. A
Hemet, CA 92543
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Fax: 951.766.1155

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122558 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/06/2023

OPTIONAL CABINET ELEVATION AND SECTION

CLIENT:
ENCORE IMAGE
303 WEST MAIN ST.
ONTARIO, CA. 91762

DRAWN	R.D.B
CHECKED	A.Q.D.
DATE	07-19-2023
SCALE	AS NOTED
JOB NO.	31-124

SHEET

S-2

31-124

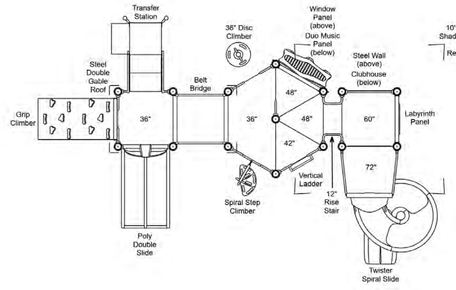
FRANKLIN ES - MERCED CITY SD
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
7	6/4	0/0	2/2	2/2

CHILD CAPACITY 76 **MAX FALL HEIGHT** 72

R5 | FOR KIDS AGES 2-12



GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE # R50C1446A
PROJECT # PPT24334C4A
DATE 7/19/2024

Park Planet
MIN. USE ZONE 40' x 29' (11.956m x 8.812m)

PLAYCRAFT SYSTEMS a PLAYCORE Company

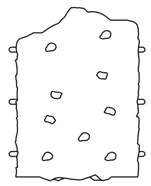
FRANKLIN ES - MERCED CITY SD
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

CHILD CAPACITY 5 **MAX FALL HEIGHT** 36

FOR KIDS AGES 2-5



PC ER-1236-3-CO ERECTOR ROCK CRAWL OVER

GENERAL NOTES

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WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE # FREER12363CO
PROJECT # PPT24334C4A
DATE 7/19/2024

Park Planet
MIN. USE ZONE 18' x 19' (5.306m x 5.764m)

PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	0/0	0/0

CHILD CAPACITY 0 **MAX FALL HEIGHT** 0

TD-SM-N-RNBW
TUNED DRUMS

GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE # FREENOTES/1
PROJECT # PPT24334C4A
DATE 7/19/2024

Park Planet
MIN. USE ZONE 0' x 0' (0m x 0m)

PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	0/0	0/0

CHILD CAPACITY 0 **MAX FALL HEIGHT** 0

Flower, Turquoise (SM)

MUSH-SML-SM SMALL MUSHROOM (SM)

GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE # FREENOTES/2
PROJECT # PPT24334C4A
DATE 7/19/2024

Park Planet
MIN. USE ZONE 0' x 0' (0m x 0m)

PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
TOP VIEW

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	0/0	0/0

CHILD CAPACITY 0 **MAX FALL HEIGHT** 0

LPAD-G-SM-STL LILYPAD CYMBALS w/ STEEL POST

GENERAL NOTES

This conceptual plan is based on information provided prior to construction. Detailed site information, including the following, should be obtained, evaluated, and utilized in the final project design. Exact site dimensions, topography, existing utilities, soil conditions and drainage solutions.

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

STRUCTURE # FREENOTES/3
PROJECT # PPT24334C4A
DATE 7/19/2024

Park Planet
MIN. USE ZONE 0' x 0' (0m x 0m)

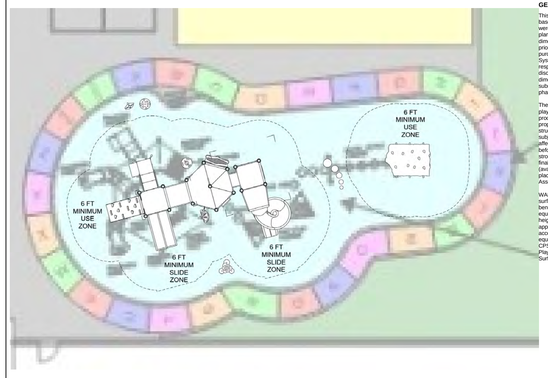
PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
SITE PLAN

ADA ACCESSIBILITY GUIDELINES - ADAAG CONFORMANCE

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
7	6/4	0/0	3/2	3/2

R5 | FOR KIDS AGES [Mixed]



GENERAL NOTES

This Preliminary Site Plan is based on measurements that were provided in the initial planning phase. All dimensions must be verified prior to the submission of a purchase order. Playcraft Systems will not be held responsible for any discrepancies between actual dimensions and dimensions contained in the planning phase.

The Minimum Use Zone for a play structure is based on the product design at the time of proposal. Components and structure designs may be subject to change which may affect dimensions. Therefore, before preparing the site, we recommend downloading final drawings from the factory (available after the order is placed and included in the Assembly Manual).

WARNING: Accessible safety surfacing material is required beneath and around this equipment that has a critical height value (Fall Height) appropriate for the highest accessible part of this equipment. Refer to the CPSC'S Handbook For Public Playground Safety, Section 4: Surfacing.

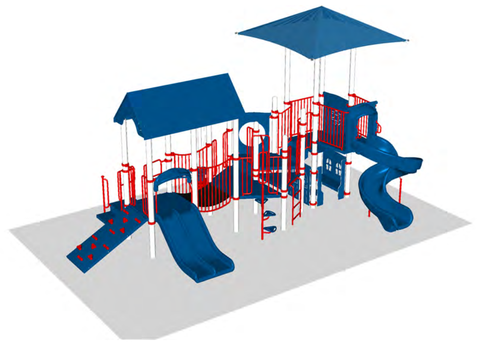
PROJECT # PPT24334C4A
DATE 7/19/2024

Park Planet
MIN. USE ZONE 65' x 24' (19.71m x 7.239m)

PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
SW VIEW

R5 | FOR KIDS AGES 2-12



STRUCTURE # R50C1446A
PROJECT # PPT24334C4A
DATE 7/19/2024

PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
NE VIEW

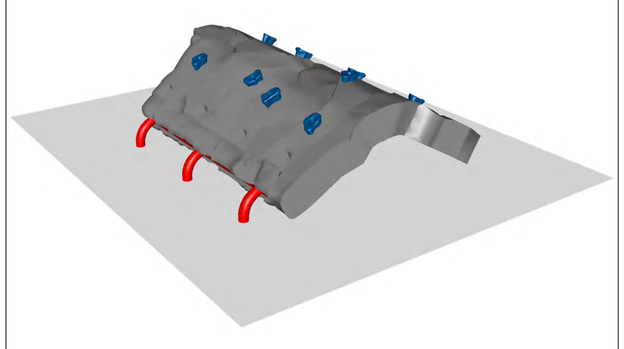
R5 | FOR KIDS AGES 2-12

STRUCTURE # R50C1446A
PROJECT # PPT24334C4A
DATE 7/19/2024

PLAYCRAFT SYSTEMS a PLAYCORE Company

FRANKLIN ES - MERCED CITY SD
SW VIEW

FOR KIDS AGES 2-5



STRUCTURE # FREER12363CO
PROJECT # PPT24334C4A
DATE 7/19/2024

PLAYCRAFT SYSTEMS a PLAYCORE Company

PLAY EQUIPMENT SHOWN FOR REFERENCE
EQUIPEMNT TO BE OWNER FURNISHED AND OWNER INSTALLED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

CHRISTOPHER WIKKEL LICENSED ARCHITECT C-34395 STATE OF CALIFORNIA

TETER, INC.
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED
TETER

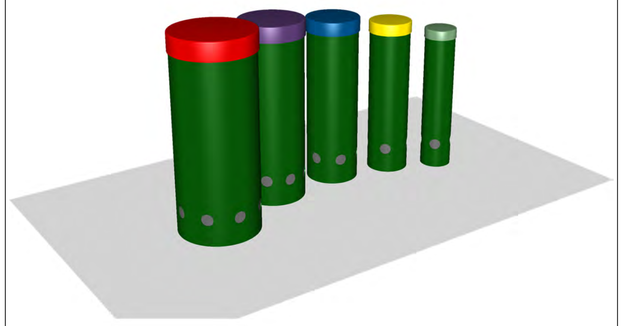
MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
PLAYGROUND EQUIPMENT

PROJECT NO.
23-12259.00

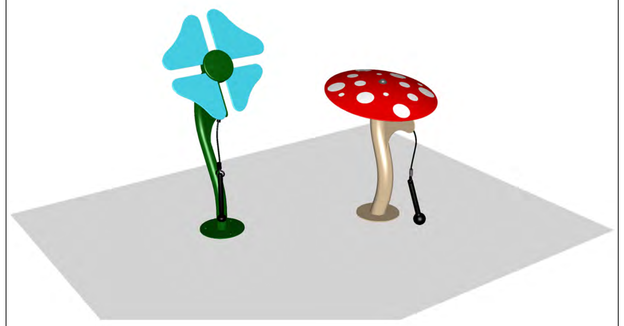
DRAWING
PE101

FRANKLIN ES - MERCED CITY SD
SW VIEW



STRUCTURE # FREENOTES/1
PROJECT # PPT24334C4A
DATE 7/19/2024

FRANKLIN ES - MERCED CITY SD
SW VIEW



STRUCTURE # FREENOTES/2
PROJECT # PPT24334C4A
DATE 7/19/2024

FRANKLIN ES - MERCED CITY SD
SW VIEW

STRUCTURE # FREENOTES/3
PROJECT # PPT24334C4A
DATE 7/19/2024

Bill of Materials

FRANKLIN ES - MERCED CITY SD
Project # PPT24334C4A **Date** 7/19/2024

Item / Part Number	Description	Qty
[R50C1446A]		
HS-1004-R	Collars	55
GF-7002	Dome Cap, R5	5
S-1011-R5-11ft	Post, 11ft R5	3
S-1012-R5-12ft	Post, 12ft R5	2
S-1013-R5-13ft	Post, 13ft R5	6
S-1017-R5-17ft	Post, 17ft R5	4
S-1101-R5	Square Deck	2
S-1102-R5	Tri-Deck	3
S-1103-R5	Hex Deck, Half (5 Post)	1
S-1110-R	Filler, 12in	1
S-1110-R	Filler, Universal (12in)	1
S-1206-12R5	ADA Stairs, 12in Rise w/ Walls	1
S-1209-24-R5	Transfer Station, 36in-R	1
S-1210-48	Climber, Vertical Ladder 42-48in	1
S-1216-3	Climber, Grip 30-36in	1
S-1233-3-HW	Climber, Disc 30-36in (w/ HW)	1
S-1234-3R	Climber, Spiral Step 30-36in	1
S-1301-R5	Wall, Steel 36in (Standard)	1
S-1306-R5	Double Slide SitDown Hood	1
S-1309-2-R5	Half Walls (Pair) R5	3
S-1309-R5	Half Walls (Single, Right)	1
S-1310-R5	Transition Wall	1
S-1504-R5	Bridge, Belt (45in)	1
S-1617-R5	Window Panel	1
S-1634-R5	Labyrinth Panel	1
S-1639-R5	Clubhouse	1
S-16522-R5G	Duo Panel	1
S-1702-3R5	Slide, Double 36in	1
S-1706-S6L-R5	Slide, Twister Spiral 72in (L)	1
S-18021-R5-FR	Shade Canopy, 10ft Square (Fire Resistant)	1
S-1808-2R5STL	Metal Roof, Double Gable Shade	1
[FREER12363CO]		
A2-ER1236-3-CO	ER-1236-3-CO Erector Rock Crawl Over	1
[FREENOTES/1]		
TD-SM-N-RNBW	Tuned Drums (SM, Rainbow Lids)	1
[FREENOTES/2]		

A PlayCore Company

Bill of Materials (Continued)

FRANKLIN ES - MERCED CITY SD

Item / Part Number	Description	Qty
FWR-T-SM	Flower, Turquoise (SM)	1
MUSH-SML-SM	Mushroom, Small (SM)	1
FREENOTES/3		
LPAD-G-SM-STL	Lilypad Cymbals w/ Steel Post (SM, Green)	1

PLAY EQUIPMENT SHOWN FOR REFERENCE
EQUIPEMNT TO BE OWNER FURNISHED AND OWNER INSTALLED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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MARK	DATE	DESCRIPTION
	03/03/25	DSA BACKCHECK SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER NIKKEL C-34395 STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
TETER

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
PLAYGROUND EQUIPMENT

PROJECT NO.
23-12259.00

DRAWING
PE102

IMPORTANT NOTES: Read First

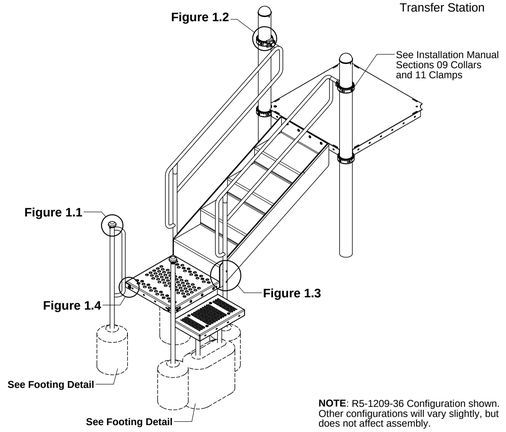
(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Refer to Installation Manual for 09 Collars and 11 Socket Clamps installation instructions.

(D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at www.cpsc.gov for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

FIGURE 1
Transfer Station



NOTE: R5-1209-36 Configuration shown. Other configurations will vary slightly, but does not affect assembly.

Step 1

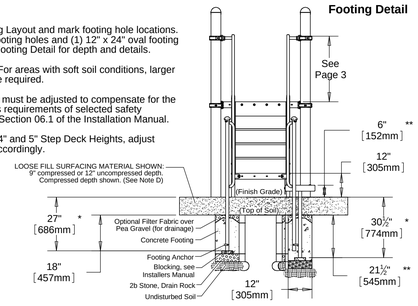
Refer to Footing Layout and mark footing hole locations. Dig (4) Ø 12" footing holes and (1) 12" x 24" oval footing hole. Refer to Footing Detail for depth and details.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

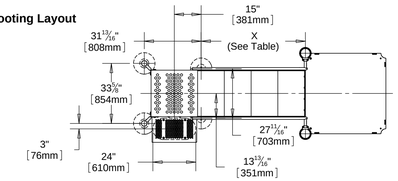
* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

** For optional 4" and 5" Step Deck Heights, adjust footing depth accordingly.

Footing Detail



Top View - Footing Layout



Footing Distance Table
Center of Post to Center of Footing

Deck Height	Assembly	X (in.)	X (mm)
24"	Transfer Station 12-24	13-1/4"	337
36"	Transfer Station 12-36	28-1/4"	717
42"	Transfer Station 12-42	43"	1092
48"	Transfer Station 12-48	58-1/4"	1480
60"	Transfer Station 12-60	73-1/4"	1861
72"	Transfer Station 12-72	103-1/4"	2623

Step 2

Locate and attach collars to posts at height shown in Figure 2. (See Note C)

NOTE: Collar height varies based on Transfer Station Hand Rail Type.

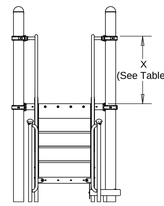
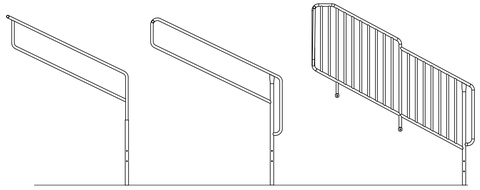


FIGURE 2
Transfer Station Hand Rail Identification and Collar Height

RAIL TYPE 1 **RAIL TYPE 2** **RAIL TYPE 3**



Collar Height Table
Top of Deck to Top of Collar

Hand Rail	X (in.)	X (mm)
TYPE 1	35-1/2"	902
TYPE 2 & 3	33"	838

Step 3 (Factory Assembled)

Attach Transfer Leg Top to Transfer Deck Support as shown in Figure 1.1. (See Note A)

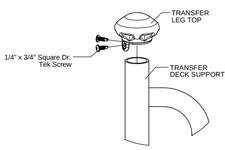


Figure 1.1

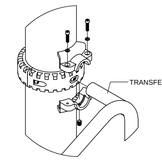


Figure 1.2

Step 4

Place Transfer Rails into footing holes and attach to collars as shown in Figure 1.2. (See Note C)

Step 5

Attach ADA Steps to Transfer Rails as shown in Figure 1.3. (See Note A)

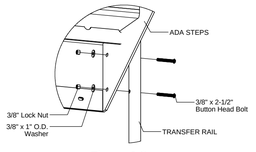


Figure 1.3

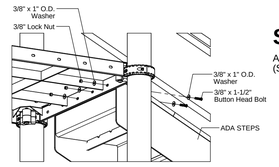


FIGURE 3

Step 6

Attach ADA Steps to deck as shown in Figure 3. (See Note A)

Step 7

For Transfer Station to 60" & 72" Decks Only

Attach Transfer Rail to ADA Steps as shown in Figure 4. (See Note A)

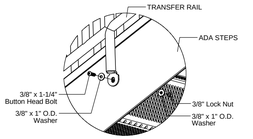


FIGURE 4

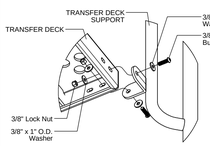


Figure 1.4

Step 8

Attach Transfer Deck Supports to Transfer Deck as shown in Figure 1.4. (See Note A)

Step 9

Place Transfer Deck Supports into footing holes and attach Transfer Deck to ADA Steps as shown in Figure 5. (See Note A)

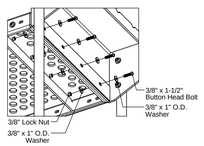


FIGURE 5

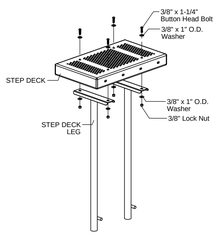


FIGURE 6

Step 10

Attach Step Deck Legs to Step Deck as shown in Figure 6. (See Note A)

Step 11

Place Step Deck Legs into footing holes and attach Filler to Transfer Deck and Step Deck as shown in Figure 7. (See Note A)

Step 12

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

Step 13

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

Step 14

Place required protective surfacing under and around Transfer Station. (See Note D)

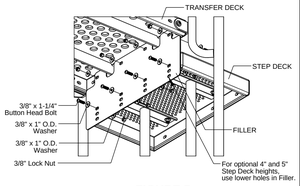


FIGURE 7

Specifications

STEP DECK LEG:
Shall be fabricated using 1.660" O.D. 11 gauge steel tubing with welded 10 gauge steel mounting bracket. The Step Deck Leg shall have a multi-stage baked-on powder coat finish.

STEP RAILS:
Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg. The Step Rails shall have a multi-stage baked-on powder coat finish.

TRANSFER STATION WALL:
Shall be fabricated using 1.315" O.D. 12 gauge steel tubing with welded 1.660" O.D. 11 gauge steel leg and 1.029" O.D. 14 gauge steel rungs. The Transfer Station Wall shall have a multi-stage baked-on powder coat finish.

STEPS & DECKS:
Shall be fabricated using punched, formed and welded 14 gauge sheet steel. Steps and Decks shall be Play-Tuff™ coated after fabrication.

SOCKET CLAMPS:
Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps have a multi-stage baked-on powder coat finish.

HARDWARE:
Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

Parts List

S-1209-12 - Transfer Station 12-24

Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4335	ADA Step 12-26	1
FS-1202	Step Deck Leg	2
FS-1209-12	Transfer Station H Rail 24	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-24 - Transfer Station 12-36

Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4203	ADA Steps 24-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-24R	Transfer Station H. Rail 36	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-30 - Transfer Station 12-42

Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4194	ADA Steps 30-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-30R	Transfer Station H. Rail 42	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-36 - Transfer Station 12-48

Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4294	ADA Steps 36-26	1
FS-1202	Step Deck Leg	2
FS-1209-36R	Transfer Station H. Rail 48	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	16
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	52
9413002	Nut Lock 3/8"	28

S-1209-48 - Transfer Station 12-60

Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
CE-4486	ADA Steps 48-26	1
FS-1202	Step Deck Leg	2
FS-1209-48	Transfer Station Wall 60	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

S-1209-60 - Transfer Station 12-72

Part #	DESCRIPTION	QTY.
AE-4206	Vertical Filler #8	1
CE-0166	ADA Steps 60-26	1
CE-4204	Transfer Deck 2	1
CE-4205	Step Deck 3	1
FS-1202	Step Deck Leg	2
FS-1209-60	Transfer Station Wall 72	2
HS-1001-R5	Socket Clamp Set R5	2
9103062-TR	Bolt Button Head 3/8" x 1-1/4"	20
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	8
9103112-TR	Bolt Button Head 3/8" x 2-1/2"	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	60
9413002	Nut Lock 3/8"	32

Assembled Parts List

Part #	DESCRIPTION	QTY.
FS-1209A	Transfer Deck Support	2
GE-4636	Transfer Leg Top	2
9271032	Screw Tek 1/4" x 3/4" PH SQDR	4

Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.

PLAY EQUIPMENT SHOWN FOR REFERENCE
EQUIPEMNT TO BE OWNER FURNISHED AND OWNER INSTALLED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122839 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/07/2025

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	03/03/25	DSA BACKCHECK SUBMITTAL

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TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

MERCED CITY SCHOOL DISTRICT
FRANKLIN ELEM. SCHOOL
MODERNIZATION (PHASE 3)
2736 Franklin Road, Merced, CA

DRAWING TITLE
PLAYGROUND EQUIPMENT

PROJECT NO.
23-12259.00

DRAWING
PE103