\\tetr-file1\Users\cesar.silva_TETR\Documents\13084-A-MCSD-260 K ST.IT WAREHOUSE_cesar.sil.rvt

MERCED CITY SCHOOL DISTRICT
26TH STREET
MARS/ELO-P FACILITY INCREMENT 02

DSA FILE NO.: 24 - 35 | P.T.N.: 65771-142 | DSA APPL. NO.: 02-123377

GENERAL

PROJECT ADDRESS:	MARS/ELOP FACILITY 2600 K ST. MERCED, CA. 95348
SITE INFORMATION	
OWNER:	MERCED CITY SCHOOL DISTRICT
ASMT:	030022008000
GIS ACRES:	0.69
GIS SQDT:	30,000.00
APN:	030022008
PARCEL:	088
PARCEL NUMBER:	030-022-008

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE FOLLOWING:

INCREMENT NO.1:

SITE INFRASTRUCTURE INCREMENT.
SITE DEMOLITION REVIEW AND APPROVED BY THE CITY OF MERCED.
INCREMENT NO. 1 TO CONSIST OF BASIC SITE UTILITIES, GRADING, AND BUILDING PAD.

INCREMENT NO.2:

IMPROVEMENT INCREMENT TO INCLUDE MAIN BUILDING, STORAGE BUILDING, AND SITE IMPROVEMENTS.

CONSTRUCTION OF A NEW DISTRICT 2-STORY (10,500 SF) MULTI-USE FACILITY FOR STUDENTS AND ADULTS.
FACILITY TO INCLUDE:
- LOBBY
- CLASSROOM
- KITCHEN
- MULTI-USE SPACE
- STORAGE
- ELEVATOR
- OFFICE SPACE
- STANDARD SITE IMPROVEMENTS

CONSTRUCTION OF A NEW DISTRICT 1-STORY (1,500 SF) STORAGE BUILDING.
FACILITY TO INCLUDE:
- OPEN FLOOR SPACE FOR STORAGE

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:. 02-123377 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:

☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX
☐ THIS DRAWING OR PAGE

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

12-19-2025

ARCHITECT'S SIGNATURE — DATE
CHRIS NIKKEL
ARCHITECT/ PARTNER
TETER, INC.

C-35953 — 11-30-2027
LICENSE NUMBER — EXPIRATION DATE

ARCHITECT'S STATEMENT

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. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
18. DSA IS NOT SUBJECT TO ARBITRATION.
19. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
20. 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.
21. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
22. 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
23. 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.
24. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
25. ARCHITEC OF RECORD (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN AND EQUIPMENT SPECIFICATIONS, AND TESTING AND ACCEPTANCE CRITERIA. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL/AOR TO SUBMIT PLANS AND REQUESTED DOCUMENTATIONS, AND APPLICABLE FEES, TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED, EQUIPMENT DATA SHEETS, AND PROOF OF TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT. THE PROJECT INSPECTORS SHALL VERIFY THAT DOCUMENTATION IS PROVIDED TO THE SCHOOL DISTRICTS.
26. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND WRITTEN SITE FIRE SAFETY PLAN.

GENERAL NOTES

2025 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 24-22 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 (2020 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2024 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.

GOVERNING CODES

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RTM ENGINEERING CONSULTANTS
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IRVINE, CA. 92618
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YC+D ARCHITECTURE
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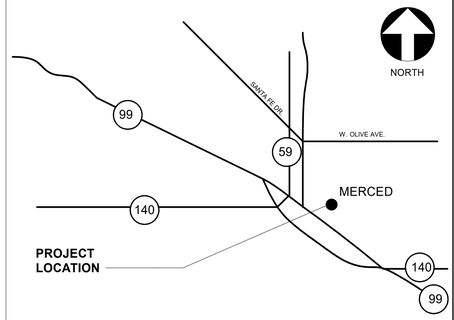
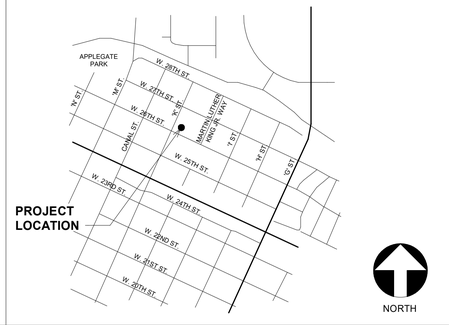
(559) 437-0887
CONTACT: EVAN BASTIAN
EMAIL: evan.bastian@teterae.com

PROJECT DIRECTORY



AREA MAP



VICINITY MAP

ENFORCING AGENCY:

DIVISION OF THE STATE ARCHITECT / SACRAMENTO REGIONAL OFFICE.

FLOOD ZONE:

- FLOOD ZONE DESIGNATION: ZONE AO
- FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION: 408 OF 1225
- EFFECTIVE DATE OF FIRM: DECEMBER 2, 2008
- DESIGN FLOOR ELEVATION (DFE): 173.12
- APPLICABLE COMMUNITY ORDINANCE SECTION: CITY OF MERCED, 060188

GENERAL INFORMATION

NONE

DEFERRED SUBMITTALS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

LICENSED ARCHITECT ★ CHRISTOPHER NIKKEL ★ C-35953 ★ REN. 11-30-2027 ★ CALIFORNIA ★ STATE OF

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE: COVER SHEET

PROJECT NO. 24-13084.00

DRAWING G000-02

PLOT DATE: 12/19/2025 10:54:41 AM

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M405-02	CAPTIVEAIRE SHOP DRAWINGS
M406-02	CAPTIVEAIRE SHOP DRAWINGS
M407-02	CAPTIVEAIRE SHOP DRAWINGS
M408-02	CAPTIVEAIRE SHOP DRAWINGS
M409-02	CAPTIVEAIRE SHOP DRAWINGS
M410-02	CAPTIVEAIRE SHOP DRAWINGS
M501-02	TITLE 24
M502-02	TITLE 24
M503-02	TITLE 24
M504-02	TITLE 24
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P002-02	SCHEDULES
P200-02	FIRST AND SECOND LEVEL
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P404-02	DETAILS
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E101-02	ELECTRICAL SITE PLAN
E200-02	ELECTRICAL PLANS
E201-02	LIGHTNING PLANS
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FA001-02	GENERAL NOTES, SYMBOLS AND SHEET INDEX
FA101-02	FIRE ALARM SITE PLAN
FA201-02	FIRE ALARM FLOOR PLANS
FA202-02	STORAGE BUILDING FIRE ALARM PLAN
FA301-02	FIRE ALARM RISER DIAGRAM
FA302-02	FIRE ALARM CALCULATIONS
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FP002-02	DETAILS - FIRE PROTECTION
FP101-02	SITE PLAN - FIRE PROTECTION
FP201-02	PIPING PLAN - FIRE PROTECTION
FP301-02	CEILING PLAN - FIRE PROTECTION
FP401-02	SECTIONS - FIRE PROTECTION
FP601-02	DETAILS - FIRE PROTECTION
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PV001-02	GENERAL NOTES, SYMBOLS AND SHEET INDEX
PV201-02	PV ROOF PLAN
PV301-02	PV DETAILS
PV302-02	PV DETAILS
PV401-02	PV SINGLE LINE DIAGRAM
PV501-02	TITLE 24
PV601-02	PV AND BATTERY SPECS
209	
TOTAL PAGES: 242	

SHEET INDEX - INCREMENT NO. 2

PLOT DATE: 12/19/2025 10:54:42 AM

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	12/22/25	INC. 02 DSA SUBMITTAL

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

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

TETER

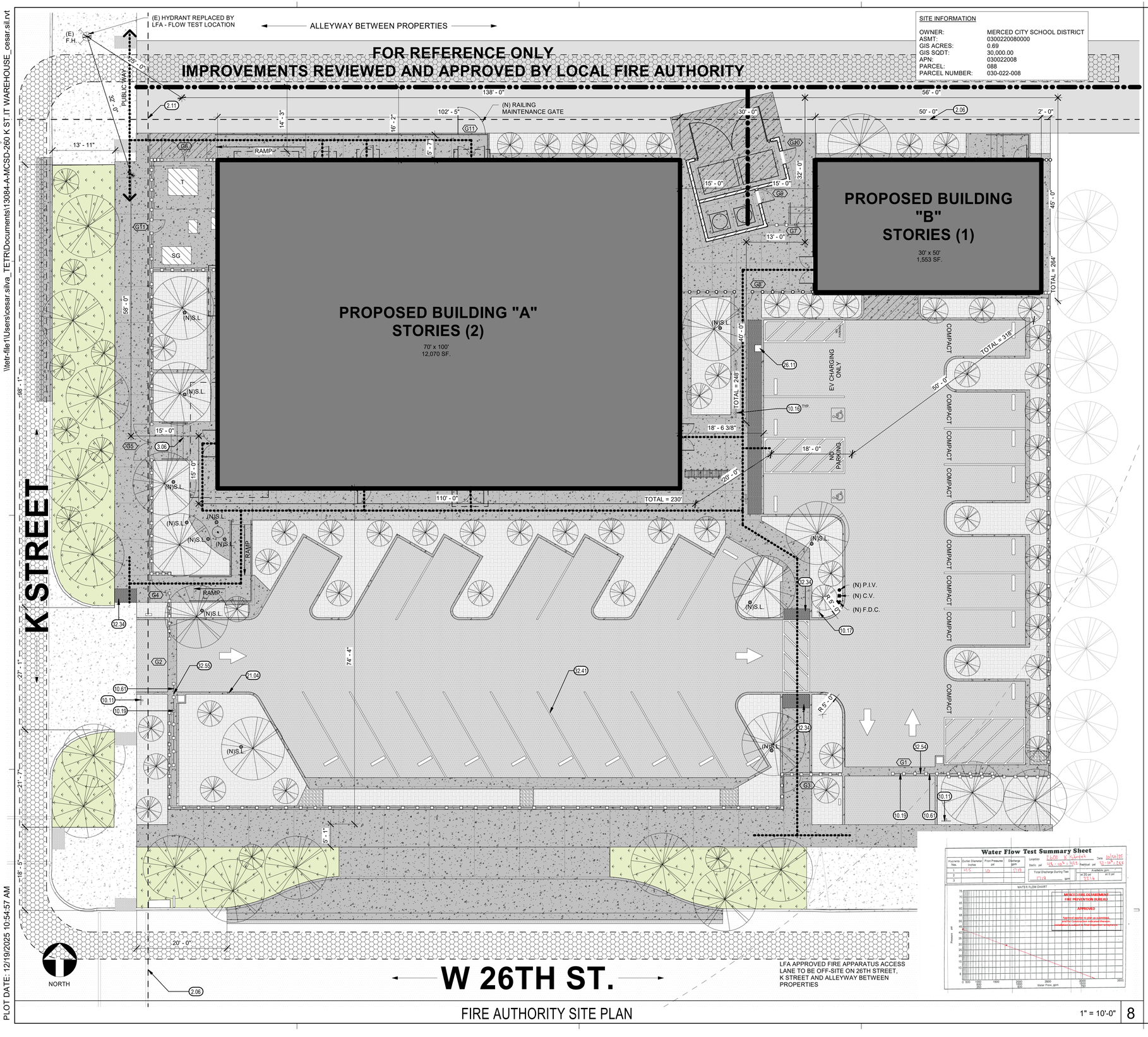
26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE
SHEET INDEX

PROJECT NO.
24-13084.00

DRAWING
G001-02

\\tetr-file1\Users\cesar.silva_TETRIDocuments\13084-A-MCSD-260 K ST. IT WAREHOUSE_cesar.sil.rvt



SITE INFORMATION	
OWNER:	MERCED CITY SCHOOL DISTRICT
ASMT:	030020080000
GIS ACRES:	0.69
GIS SQDT:	30,000.00
APN:	030022008
PARCEL:	088
PARCEL NUMBER:	030-022-008

KEYNOTES (30.00)

2.06	EXISTING OVERHEAD UTILITY LINES TO REMAIN
2.11	EXISTING UTILITY POLE TO REMAIN
3.06	CONCRETE STEPS
10.11	PARKING LOT TOW AWAY SIGN, SEE DETAIL 6/A110-02
10.16	NEW ACCESSIBLE PARKING SIGNAGE
10.17	"DO NOT ENTER" SIGN
10.19	PROVIDE SIGNAGE MOUNTED TO GATE. SIGN TO READ "PARKING LOT IS NOT A PASS-THROUGH FOR FIRE TRUCK", SEE DETAIL 5/A110-02
10.61	SURFACE MOUNTED KNOX BOX EMERGENCY SERVICES KEY STORAGE. COORDINATE SIZE, LOCATION, AND MOUNTING WITH LOCAL FIRE AUTHORITY AND DISTRICT
21.04	PAINT TOP AND FACE OF CURB RED WITH 4" HIGH LETTERING "NO PARKING - FIRE LANE" AT 30' ON CENTER OF FACE OF CURB
26.11	NEW EV CHARGING STATION
32.34	DETECTABLE WARNING SURFACE
32.41	ANGLED PARKING PER MERCED CITY STANDARDS 18.38.070
32.54	22' - 0" MOTORIZED DECORATIVE METAL ROLLING GATE
32.55	18' - 0" MOTORIZED DECORATIVE METAL ROLLING GATE

LEGEND

- (N) PROPOSED BUILDING
- (E) AC PAVING TO REMAIN, AT ALLEY WAY
- (E) CONC. PAVING TO REMAIN
- (N) CONC. PAVING
- (N) HEAVY DUTY CONC. PAVING
- (N) CHAINLINK FENCE
- (E) TREE TO REMAIN
- (N) AC PAVING
- (N) TURF
- (N) LANDSCAPING - MATERIAL TO BE DETERMINE
- (N) COBBLE IMPROVEMENTS
- (N) CONCRETE MASONRY WALL (C.M.U.)
- (N) DECORATIVE METAL FENCE
- (N) TREE
- (E)F.H. (E) FIRE HYDRANT
- (N) S.L. (N) SURFACE MOUNT LIGHT FIXTURE, SEE ELECTRICAL
- PROPERTY LINE
- MEANS OF EGRESS AND ACCESSIBLE ROUTE. 2% MAX SLOPE ALL DIRECTIONS UNLESS RAMP OR SLOPED WALK DESIGNATES OTHER COMPLIANCE PER (2022 C.B.C. SECTION 11B - 206)

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:	26Th Street MARS/ELOP Facility
Project Address:	2600 K. Street, 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.			✓	
5a.	**Acceptable Alternate:** The available flow 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, 5a, 5a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Bryan Behan Title: Director of Facilities

Signature: Date: 10/27/25

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	City of Merced Fire Department	
LFA Review Official:	Casey Wilson	
Title:	Fire Chief	Work Phone: (209) 388-8835
Work Email:	wilsonc@cityofmerced.gov	

LFA Reviewer's Signature: Casey Wilson Digitally signed by Casey Wilson Date: 2025.10.31 08:35:08 -07'00' Date: 10/31/2025

PLOT DATE: 12/19/2025 10:54:57 AM

FIRE AUTHORITY SITE PLAN

1" = 10'-0"

8

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ARCHITECTS ENGINEERS CONNECTED

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

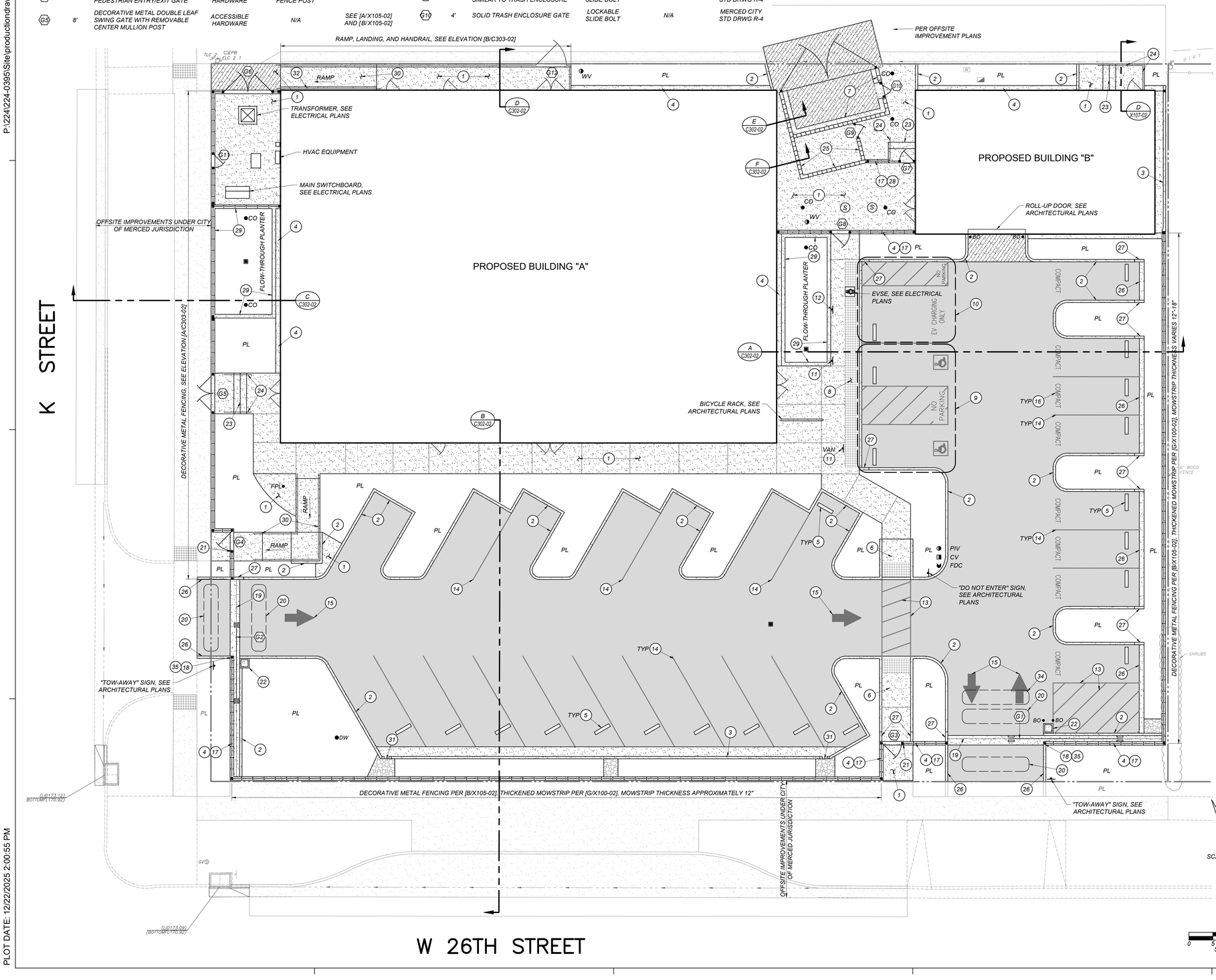
DRAWING TITLE
FIRE AUTHORITY SITE PLAN

PROJECT NO.
24-13084.00

DRAWING
G002-02

GATE SCHEDULE:

GATE ID	GATE WIDTH	GATE FUNCTION AND SIZE	ACCESS	FIRE ACCESS	COMMENTS
G1	20'	DECORATIVE METAL MOTORIZED ENTRY/EXIT ROLL GATE	KEY FOB	KNOX SWITCH MOUNTED TO FENCE POST	SEE [A/X105-02]
G2	20'	DECORATIVE METAL MOTORIZED ENTRY ROLL GATE	KEY FOB	KNOX SWITCH MOUNTED TO FENCE POST	SEE [A/X105-02]
G3	4'	DECORATIVE METAL ACCESSIBLE PEDESTRIAN ENTRY/EXIT GATE	ACCESSIBLE HARDWARE	KNOX BOX MOUNTED TO FENCE POST	SEE [E/X105-02]
G4	4'	DECORATIVE METAL ACCESSIBLE PEDESTRIAN ENTRY/EXIT GATE	ACCESSIBLE HARDWARE	KNOX BOX MOUNTED TO FENCE POST	SEE [E/X105-02]
G5	8'	DECORATIVE METAL DOUBLE LEAF SWING GATE WITH REMOVABLE CENTER MULLION POST	ACCESSIBLE HARDWARE	N/A	SEE [A/X105-02] AND [B/X105-02]
G6	10'	DECORATIVE METAL DOUBLE MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A	SEE [B/X105-02]
G7	4'	DECORATIVE METAL MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A	SEE [E/X105-02]
G8	4'	DECORATIVE METAL MAINTENANCE GATE	ACCESSIBLE HARDWARE	N/A	SEE [E/X105-02]
G9	4'	SOLID UTILITY YARD GATE, SIMILAR TO TRASH ENCLOSURE	LOCKABLE SLIDE BOLT	N/A	MERCED CITY STD DRWG R-4
G10	4'	SOLID TRASH ENCLOSURE GATE	LOCKABLE SLIDE BOLT	N/A	MERCED CITY STD DRWG R-4
G11	4'	DECORATIVE METAL MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A	SEE [B/X105-02]
G12	6'	STEEL PIPE MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A	SEE [B/C303-02]



SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS PER[A/X100-02]
- LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS PER [A/X100-02]
- LIMITS OF ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER [B/X100-02]
- LIMITS OF COBBLE IMPROVEMENTS, STABILIZATION IN SWALE PER [J/X102-02]
- DETECTABLE WARNINGS
- DECORATIVE METAL FENCE
- LIMITS OF PAINTED CURB
- BO — PROTECTION BOLLARD PER [F/X101-02]
- FPL — FLAG POLE, SEE ARCHITECTURAL PLANS
- PL — PLANTER
- 1 — CONCRETE IMPROVEMENTS PER [A/X100-02]
- 2 — CONCRETE CURB PER [E/X100-02]
- 3 — CONCRETE CURB AND GUTTER PER [F/X100-02]
- 4 — CONCRETE MOWSTRIP PER [G/X100-02]
- 5 — CONCRETE WHEELSTOP PER [H/X100-02]
- 6 — PERPENDICULAR CURB RAMP PER [G/X101-02]
- 7 — REFUSE ENCLOSURE PER CITY OF MERCED CITY STD. R-4, SEE [H/X102-02]
- 8 — DETECTABLE WARNINGS PER [H/X101-02]
- 9 — ACCESSIBLE PARKING STALLS. SEE [A/X101-02] FOR ALL ACCESS REQUIREMENTS
- 10 — ACCESSIBLE EV CHARGING PARKING STALLS. SEE [D/X101-02] FOR ALL ACCESS REQUIREMENTS
- 11 — ACCESSIBLE PARKING STALL SIGNAGE PER [B/X101-02]
- 12 — ACCESSIBLE EV CHARGING PARKING STALL SIGNAGE PER [E/X101-02]
- 13 — PAINT 4" WIDE WHITE BORDER WITH 4" WIDE WHITE DIAGONAL LINES AT 3' ON CENTER
- 14 — PAINT 4" WIDE WHITE LINE
- 15 — PAINT DIRECTIONAL ARROW WHITE PER [I/X101-02]
- 16 — PAINT 12" HIGH WHITE LETTERING 'COMPACT'
- 17 — DECORATIVE METAL FENCE PER [E/X105-02]
- 18 — KNOX SWITCH MOUNTED TO GATE LATCH POST
- 19 — V-TRACK FOR GATE PER [D/X105-02]
- 20 — VEHICULAR DETECTOR LOOPS, SEE ELECTRICAL
- 21 — KNOX BOX MOUNTED TO GATE LATCH POST
- 22 — GATE MOTOR PAD PER [C/X105-02]
- 23 — CONCRETE STAIRS PER [A/X102-02]
- 24 — HANDRAIL AT STAIRS PER [A/X102-02]
- 25 — CMU WALL PER [C/X102-02]
- 26 — CONCRETE HEADER PER [I/X100-02]
- 27 — 2' LONG TRANSITION FROM 6" EXPOSURE TO FLUSH
- 28 — RETAINING CURB PER [B/X102-02]
- 29 — PLANTER CURB PER [C/X104-02]
- 30 — PEDESTRIAN RAMP WITH HANDRAIL PER [I/X102-02]
- 31 — CONCRETE CURB CUT PER [E/X102-02]
- 32 — HANDRAIL PER [I/X102-02]
- 33 — PAINT TOP AND FACE OF CURB RED WITH 4" HIGH LETTERING "NO PARKING - FIRE LANE" AT 30' ON CENTER OF FACE OF CURB
- 34 — EXIT LOOP, SEE ELECTRICAL
- 35 — ACCESS CONTROL KEYPAD PER PROJECT SPECIFICATIONS MOUNTED TO LATCH POST

Know what's below. Call before you dig.

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

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

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE: SITE PLAN

PROJECT NO. 24-13084.00

DRAWING C301-02

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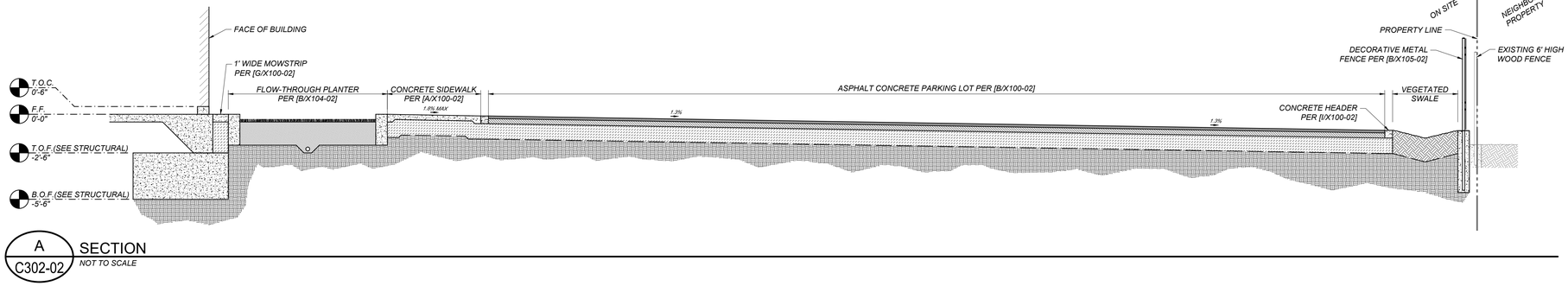
PLOT DATE: 12/22/2025 2:00:55 PM



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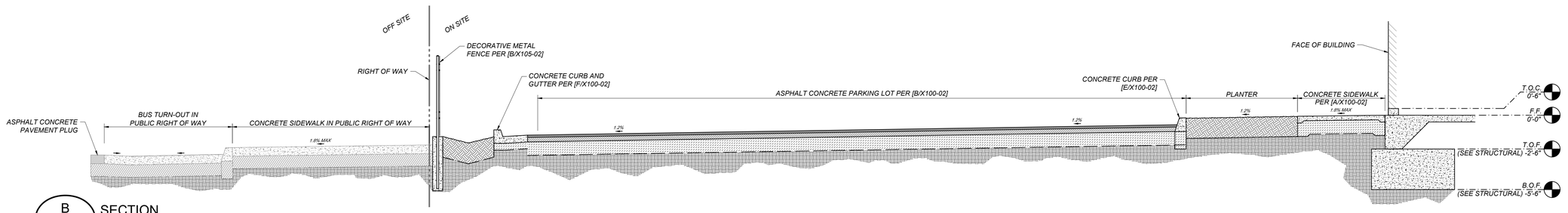

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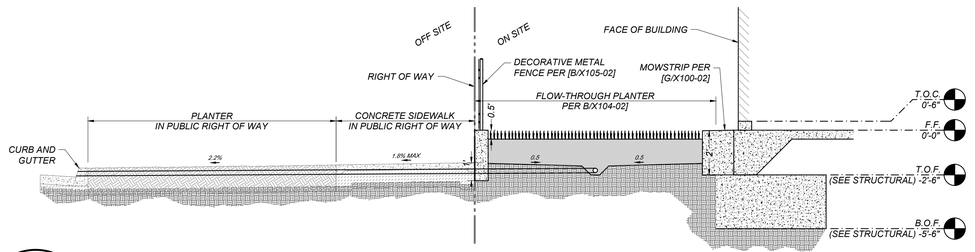

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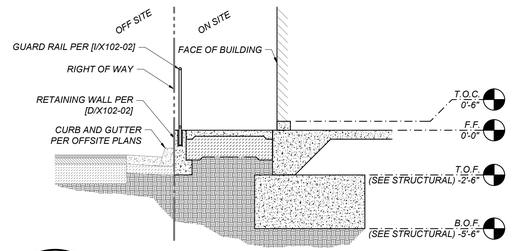

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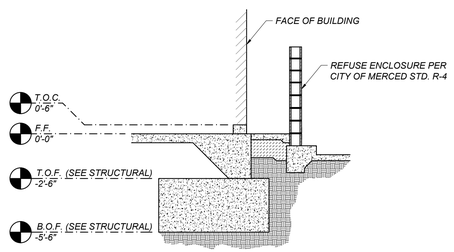

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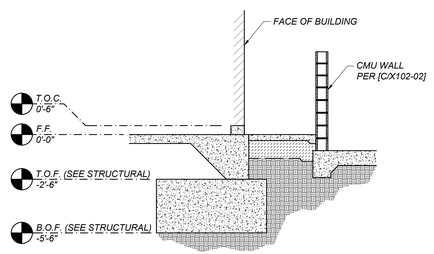

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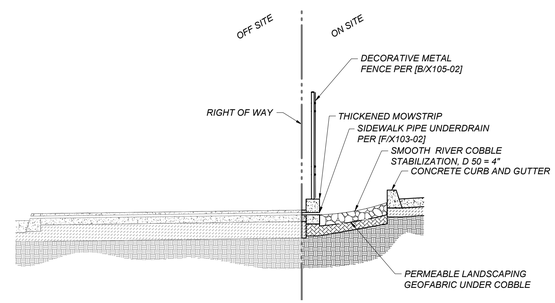

G C302-02 SECTION
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER
KEVIN D. KOSTA
No. 87218
CIVIL
STATE OF CALIFORNIA

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

TETER

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MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
SITE SECTIONS

PROJECT NO.
24-13084.00

DRAWING
C302-02

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

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Plot by: jlyle Dec 22, 2025 - 2:01pm

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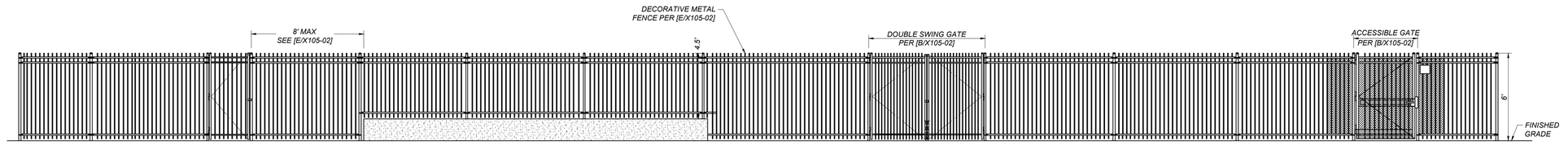
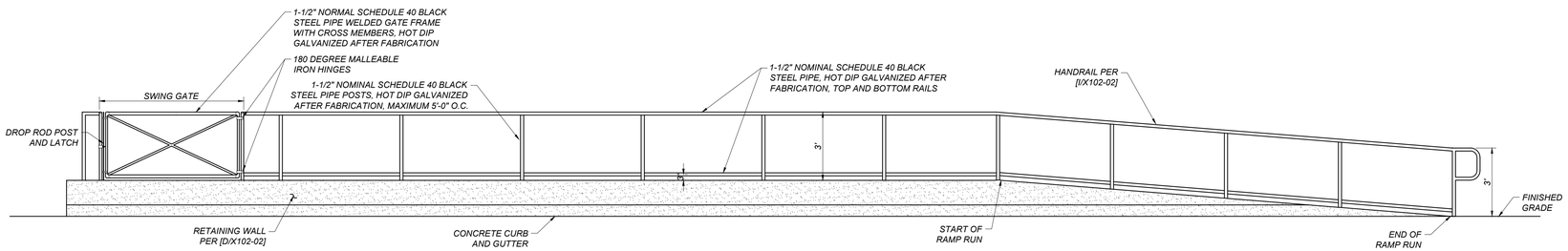


A C303-02 DECORATIVE METAL FENCE ELEVATION

1" = 4'



B C303-02 RAMP, LANDING, AND HANDRAIL ELEVATION

1" = 3'

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TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
SITE ELEVATIONS

PROJECT NO.
24-13084.00

DRAWING
C303-02

Blair, Church & Flynn
CONSULTING ENGINEERS
400 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
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Drawing: P:\224\224-0395\Site\productiondrawings\224395_dt03-inc2.dwg Layout1 (2) — BCF, CTB
Plot by: jfuhr Dec 22, 2025 - 2:01pm

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ALLEY

K STREET

PROPOSED BUILDING "A"

PROPOSED BUILDING "B"

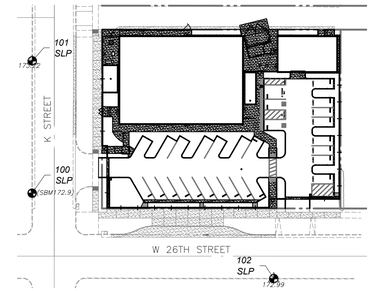
W 26TH STREET

HORIZONTAL CONTROL LEGEND:

100 LCP		LAYOUT COORDINATE POINT
100 SLP		SITE LAYOUT POINT
100 BLP		BUILDING LAYOUT POINT
BC		BEGIN OF CURVE
BW		BLOCK WALL
CC		CORNER CONCRETE
EC		END OF CURVE
FP		FENCE POST
GR		DRAIN INLET GRATE
RP		RADIUS POINT

GENERAL HORIZONTAL CONTROL NOTES:

1. ALIGNMENT OF THE SITE LAYOUT GRID IS BASED ON AN ASSUMED COORDINATE SYSTEM.
2. SITE LAYOUT POINT 100 IS IS A CHISELED X LOCATED ON TOP OF THE CONCRETE CURB ON THE WEST SIDE OF K STREET APPROXIMATELY 38'± WEST OF THE STORM DRAIN INLET ON THE EAST SIDE OF K STREET
3. SITE LAYOUT POINT 101 IS IS A CHISELED X LOCATED ON TOP OF THE CONCRETE CURB ON THE WEST SIDE OF K STREET APPROXIMATELY 128'± NORTHWEST OF STORM DRAIN INLET ON THE EAST SIDE OF K STREET
4. SITE LAYOUT POINT 102 IS IS A CHISELED X LOCATED ON TOP OF THE CONCRETE CURB ON THE SOUTH SIDE OF WEST 26TH STREET APPROXIMATELY 137'± SOUTHEAST OF THE STORM DRAIN INLET ON THE NORTH SIDE OF 26TH STREET.
5. DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.



SITE LAYOUT POINT KEY MAP

SCALE: N 1"=10'

0 5 10 20 SCALE IN FEET

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

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

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DRAWING TITLE
HORIZONTAL CONTROL PLAN

PROJECT NO.
24-13084.00

DRAWING
C401-02

Drawing: P:\224\224-0395\Site\productiondrawings\224395_hc01-inc2.dwg, Layout1 — 12/22/2025 2:01:22 PM
Plot by: jjuba

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NORTHING EASTING TABLE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1935351.53	6568457.56	SLP	SITE LAYOUT POINT
101	1935452.28	6568503.88	SLP	SITE LAYOUT POINT
102	1935201.94	6568611.84	SLP	SITE LAYOUT POINT
103	1935373.79	6568548.16	BLP	BUILDING LAYOUT POINT
104	1935330.55	6568642.38	BLP	BUILDING LAYOUT POINT
105	1935358.12	6568686.92	BLP	BUILDING LAYOUT POINT
106	1935337.27	6568732.36	BLP	BUILDING LAYOUT POINT
1000	1935364.49	6568747.37	CC	CORNER CONCRETE
1003	1935390.40	6568701.73	CC	CORNER CONCRETE
1004	1935403.47	6568545.85	CC	CORNER CONCRETE
1006	1935340.42	6568659.33	CC	CORNER CONCRETE
1008	1935402.56	6568697.17	CC	CORNER CONCRETE
1009	1935386.67	6568693.17	CC	CORNER CONCRETE
1010	1935326.02	6568723.70	CC	CORNER CONCRETE
1011	1935406.86	6568674.24	CC	CORNER CONCRETE
1012	1935424.94	6568555.71	CC	CORNER CONCRETE
1021	1935347.85	6568545.34	CC	CORNER CONCRETE
1022	1935381.61	6568545.51	CC	CORNER CONCRETE
1023	1935370.25	6568540.29	CC	CORNER CONCRETE
1024	1935366.52	6568548.40	CC	CORNER CONCRETE
1025	1935320.77	6568648.11	CC	CORNER CONCRETE
1026	1935378.50	6568669.93	BW	BLOCK WALL
1027	1935375.92	6568683.69	BW	BLOCK WALL
1030	1935357.48	6568674.32	CC	CORNER CONCRETE
1031	1935318.39	6568656.39	CC	CORNER CONCRETE
1033	1935333.29	6568727.04	CC	CORNER CONCRETE
1034	1935243.78	6568685.93	CC	CORNER CONCRETE
1035	1935260.03	6568649.38	CC	CORNER CONCRETE
1038	1935280.82	6568643.78	CC	CORNER CONCRETE
1039	1935295.36	6568650.46	CC	CORNER CONCRETE
1041	1935336.66	6568734.19	FP	FENCE POST
1042	1935239.72	6568689.71	FP	FENCE POST
1043	1935250.07	6568667.14	FP	FENCE POST
1044	1935258.66	6568648.43	FP	FENCE POST
1045	1935264.34	6568636.09	FP	FENCE POST
1046	1935345.04	6568706.22	BC	BEGIN CURVE
1047	1935342.38	6568707.21	EC	END CURVE
1048	1935350.04	6568695.32	BC	BEGIN CURVE
1049	1935349.14	6568692.48	EC	END CURVE
1050	1935350.87	6568693.50	RP	RADIUS POINT
1051	1935344.20	6568708.04	RP	RADIUS POINT
1052	1935312.15	6568670.01	BC	BEGIN CURVE
1053	1935294.10	6568665.02	BC	BEGIN CURVE
1054	1935298.48	6568643.66	BC	BEGIN CURVE
1056	1935291.70	6568658.42	EC	END CURVE
1057	1935303.65	6568643.18	EC	END CURVE
1058	1935309.42	6568668.76	RP	RADIUS POINT
1059	1935296.25	6568660.51	RP	RADIUS POINT
1060	1935301.20	6568644.91	RP	RADIUS POINT
1061	1935270.54	6568654.20	BC	BEGIN CURVE
1062	1935283.94	6568636.99	BC	BEGIN CURVE
1063	1935277.17	6568651.74	EC	END CURVE
1064	1935280.93	6568632.75	EC	END CURVE
1065	1935272.62	6568649.66	RP	RADIUS POINT
1066	1935281.21	6568635.74	RP	RADIUS POINT
1067	1935351.32	6568528.50	CC	CORNER CONCRETE
1068	1935257.62	6568633.00	FP	FENCE POST
1069	1935314.21	6568509.68	FP	FENCE POST
1070	1935337.24	6568520.24	FP	FENCE POST
1071	1935352.26	6568527.14	FP	FENCE POST
1072	1935361.31	6568531.30	FP	FENCE POST
1073	1935362.99	6568527.69	FP	FENCE POST
1074	1935392.62	6568541.29	FP	FENCE POST
1079	1935446.26	6568565.92	FP	FENCE POST
1080	1935445.39	6568567.80	FP	FENCE POST
1082	1935267.19	6568634.04	CC	CORNER CONCRETE
1084	1935287.21	6568584.40	CC	CORNER CONCRETE
1086	1935309.90	6568651.99	CC	CORNER CONCRETE
1087	1935314.24	6568642.54	CC	CORNER CONCRETE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
1089	1935322.91	6568623.65	CC	CORNER CONCRETE
1090	1935327.24	6568614.21	CC	CORNER CONCRETE
1091	1935251.68	6568667.55	CC	CORNER CONCRETE
1092	1935335.91	6568595.32	CC	CORNER CONCRETE
1093	1935340.24	6568585.87	CC	CORNER CONCRETE
1095	1935348.91	6568566.98	CC	CORNER CONCRETE
1096	1935356.25	6568561.77	CC	CORNER CONCRETE
1097	1935344.72	6568542.91	BC	BEGIN CURVE
1098	1935330.18	6568536.24	BC	BEGIN CURVE
1099	1935344.99	6568545.90	EC	END CURVE
1100	1935327.72	6568537.97	EC	END CURVE
1101	1935347.44	6568544.16	RP	RADIUS POINT
1102	1935327.44	6568534.99	RP	RADIUS POINT
1103	1935365.84	6568671.00	FP	FENCE POST
1104	1935370.40	6568661.05	FP	FENCE POST
1107	1935265.84	6568624.99	CC	CORNER CONCRETE
1108	1935305.02	6568539.60	CC	CORNER CONCRETE
1110	1935396.83	6568673.37	BW	BLOCK WALL
1111	1935383.09	6568692.50	BW	BLOCK WALL
1115	1935308.16	6568671.48	EC	END CURVE
1116	1935336.79	6568521.82	CC	CORNER CONCRETE
1117	1935296.94	6568710.34	CC	CORNER CONCRETE
1118	1935267.86	6568696.99	CC	CORNER CONCRETE
1119	1935347.58	6568580.66	CC	CORNER CONCRETE
1120	1935343.25	6568590.11	CC	CORNER CONCRETE
1121	1935334.58	6568609.00	CC	CORNER CONCRETE
1122	1935330.25	6568618.45	CC	CORNER CONCRETE
1123	1935306.02	6568655.35	CC	CORNER CONCRETE
1124	1935321.58	6568637.34	CC	CORNER CONCRETE
1125	1935317.94	6568646.90	CC	CORNER CONCRETE
1127	1935311.61	6568619.83	RP	RADIUS POINT
1128	1935314.02	6568614.58	RP	RADIUS POINT
1129	1935324.62	6568591.50	RP	RADIUS POINT
1130	1935327.02	6568586.25	RP	RADIUS POINT
1131	1935337.62	6568563.16	RP	RADIUS POINT
1132	1935340.03	6568557.91	RP	RADIUS POINT
1133	1935329.55	6568708.81	RP	RADIUS POINT
1134	1935327.73	6568707.98	RP	RADIUS POINT
1135	1935300.46	6568695.47	RP	RADIUS POINT
1136	1935271.39	6568682.14	RP	RADIUS POINT
1137	1935298.65	6568694.63	RP	RADIUS POINT
1138	1935269.56	6568681.29	RP	RADIUS POINT
1140	1935370.94	6568560.28	RP	RADIUS POINT
1141	1935332.28	6568710.07	BC	BEGIN CURVE
1142	1935303.20	6568696.71	BC	BEGIN CURVE
1143	1935274.12	6568683.36	BC	BEGIN CURVE
1144	1935309.99	6568620.99	BC	BEGIN CURVE
1145	1935312.21	6568613.75	BC	BEGIN CURVE
1146	1935322.99	6568592.66	BC	BEGIN CURVE
1147	1935325.21	6568585.42	BC	BEGIN CURVE
1148	1935336.00	6568564.32	BC	BEGIN CURVE
1149	1935338.22	6568557.08	BC	BEGIN CURVE
1150	1935328.99	6568705.25	BC	BEGIN CURVE
1151	1935299.91	6568691.90	BC	BEGIN CURVE
1152	1935270.82	6568678.54	BC	BEGIN CURVE
1153	1935325.00	6568706.73	EC	END CURVE
1154	1935330.80	6568706.09	EC	END CURVE
1155	1935301.72	6568692.73	EC	END CURVE
1156	1935272.64	6568679.38	EC	END CURVE
1157	1935295.92	6568693.37	EC	END CURVE
1158	1935266.85	6568680.02	EC	END CURVE
1159	1935309.80	6568619.00	EC	END CURVE
1160	1935315.65	6568613.43	EC	END CURVE
1161	1935322.80	6568590.66	EC	END CURVE
1162	1935335.80	6568562.33	EC	END CURVE
1163	1935328.66	6568585.09	EC	END CURVE
1164	1935341.66	6568556.76	EC	END CURVE
1165	1935349.25	6568551.03	CC	CORNER CONCRETE

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MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
HORIZONTAL CONTROL LEGEND

PROJECT NO.
24-13084.00

DRAWING
C402-02

Drawing: P:\224\224-0395\Site\productiondrawings\224395_hc01-Inc2.dwg, Layout: (2) - JEC.CTB
Print Xyz: , Dec 22, 2025 - 2:01pm

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SITE BENCHMARK:

CHISELED 'X' ON THE TOP OF THE CONCRETE CURB ON THE WESTERN SIDE OF K STREET, APPROXIMATELY 56'+/- NORTH OF THE INTERSECTION OF K AND 26TH.

ELEV. = 172.94' NAVD88 DATUM

FLOOD HAZARD ZONE INFORMATION:

FLOOD ZONE DESIGNATION :	*ZONE AH - FLOOD DEPTHS OF 1 TO 3 FEET; BASE FLOOD ELEVATIONS DETERMINED*
1. FIRM PANEL DESIGNATION :	*MAP # 06047C0440G*
2. FIRM EFFECTIVE DATE:	*DECEMBER 2, 2008*
3. BASE FLOOD ELEVATION:	*N/A*

GRADING AND DRAINAGE LEGEND:

BS	BOTTOM OF STEP
C	CONCRETE
CH	CONCRETE HEADER
FF	FINISHED FLOOR
FL	FLOWLINE
G	GUTTER
GR	STORM DRAIN GRATE
MS	MOWSTRIP
P	PAVEMENT
TC	TOP OF CURB
TF	TOP OF FOOTING
TS	TOP OF STEP
TW	TOP OF WALL
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
	DIRECTION OF SURFACE DRAINAGE
	BUILDING OVER-EXCAVATION LIMITS; SEE PHASE 1 DRAWINGS
G.B.	GRADE BREAK
	SWALE AND DIRECTION OF FLOW
3"SD	STORM DRAIN PIPELINE; SIZE AS NOTED.
3"SD	PERFORATED STORM DRAIN PIPELINE; SIZE AS NOTED.
1	STEP TOP OF MOWSTRIP ADJACENT TO FENCE POST
2	SIDEWALK UNDERDRAIN INLET PER [F/X103-02]
3	ENCASE STORM DRAIN PIPES IN A 2-SACK CEMENT SLURRY TO THE BOTTOM OF THE AGGREGATE BASE SECTION OF THE PAVEMENT
4	V12 STORM DRAIN INLET PER [B/X104-02]

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 GEOTECHNICAL REPORT RECOMMENDATIONS AND 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/X103-02]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS AND BOXES WITHIN AREAS SUBJECT TO VEHICULAR TRAFFIC.*
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"=10'

0 5 10 20 SCALE IN FEET

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DRAWING TITLE
GRADING AND DRAINAGE PLAN

PROJECT NO.
24-13084.00

DRAWING
C501-02

Drawing: P:\224\224-0395\Site\productiondrawings\224395_gr01-Inc2.dwg, layout1 — BCF,CTB
Plot by: jvela Dec 22, 2025 - 10:25am

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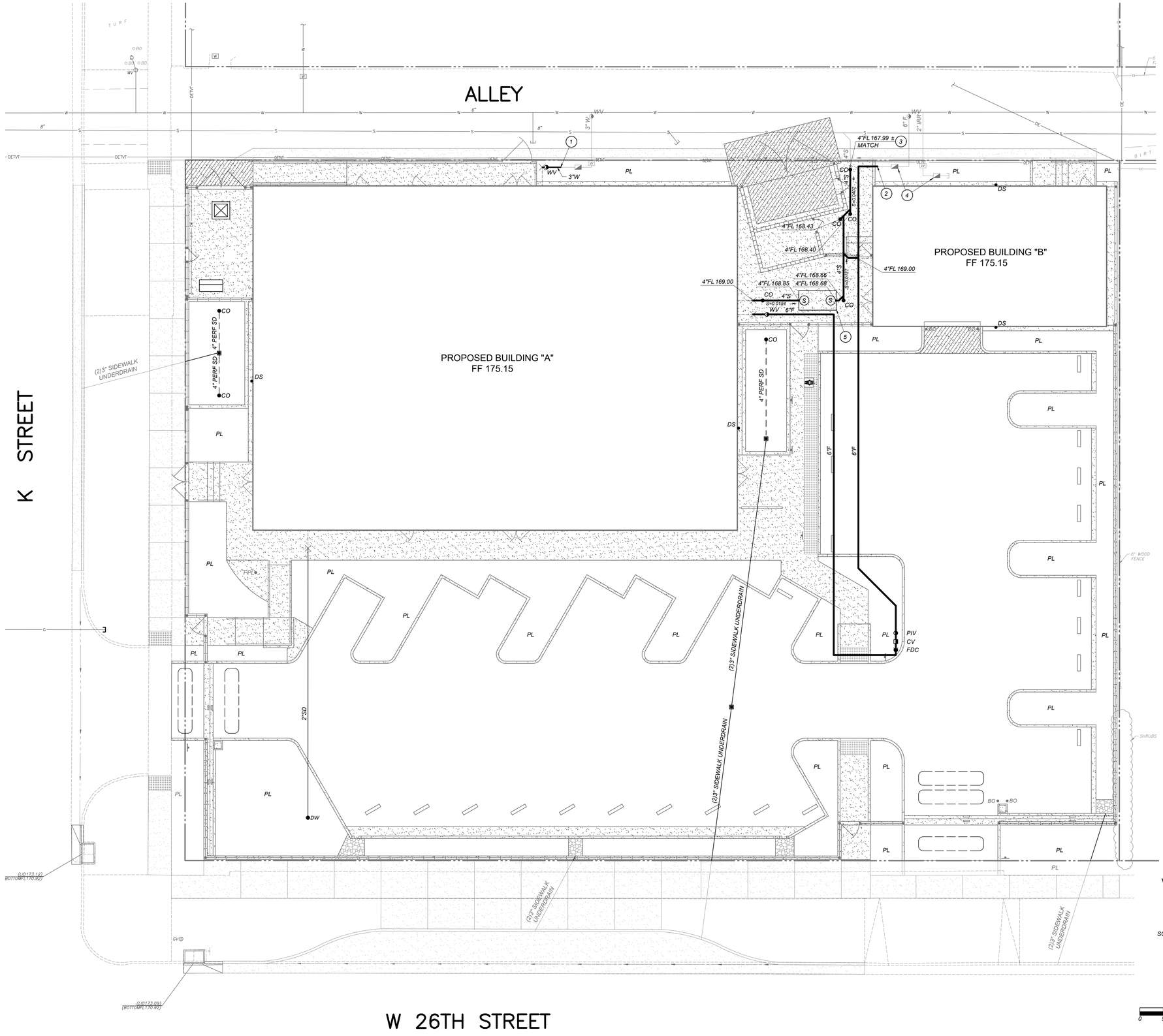

UTILITY LEGEND:

W	WATER MAIN, SIZE AS NOTED ON PLANS, MIN. 30" COVER. THRUST BLOCKS PER [A/X103-02]. PIPE BEDDING AND BACKFILL PER [C/X103-02]
F	C900 PVC FIRE MAIN, SIZE AS NOTED ON PLANS, MIN. 42" COVER. THRUST BLOCKS PER [A/X103-02]. PIPE BEDDING AND BACKFILL PER [C/X103-02]
6"S	SEWER MAIN, SIZE AS NOTED ON PLANS. PIPE BEDDING AND BACKFILL PER [C/X103-02]
FL	FLOWLINE
328.78	NEW FINISHED GRADE
FDC	FIRE DEPARTMENT CONNECTION PER [A/X104-02]
PIV	POST INDICATOR VALVE PER [A/X104-02]
CV	CHECK VALVE PER [A/X104-02]
CO	SURFACE CLEANOUT PER [D/X103-02]
DS	DOWNSPOUT, SEE ARCHITECTURAL PLANS
WV	WATER VALVE PER [B/X103-02]
×--	POINT OF CONNECTION TO EXISTING OR PROPOSED UTILITY, COORDINATE WITH PLUMBING PLANS PRIOR TO CONNECTION.
S=0.0050	PIPE FLOWLINE SLOPE AND DIRECTION OF FLOW
1	CONNECT TO PHASE 1 WATER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
2	CONNECT TO PHASE 1 FIRE LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
3	CONNECT TO PHASE 1 SEWER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.
4	BACKFLOW PREVENTER PER PHASE 1 PLANS. ZURN MODEL 350 DA
5	750 GALLON GREASE INTERCEPTOR. JENSEN PRECAST MODEL JP-750-EE-G

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. BACKFILL UTILITY TRENCHES PER DETAIL [C/X103-02]
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.

Know what's below. Call before you dig.

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
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DATE: 01/08/2026

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REGISTERED PROFESSIONAL ENGINEER
KEVIN D. KOSTA
No. 87218
CIVIL
STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONSULTANTS
FRESNO HEADQUARTERS
VISALIA I BAKERSFIELD I MODESTO I SAN LUIS OBISPO

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
UTILITY PLAN

PROJECT NO.
24-13084.00

DRAWING
C601-02

PLOT DATE: 12/22/2025 2:02:01 PM

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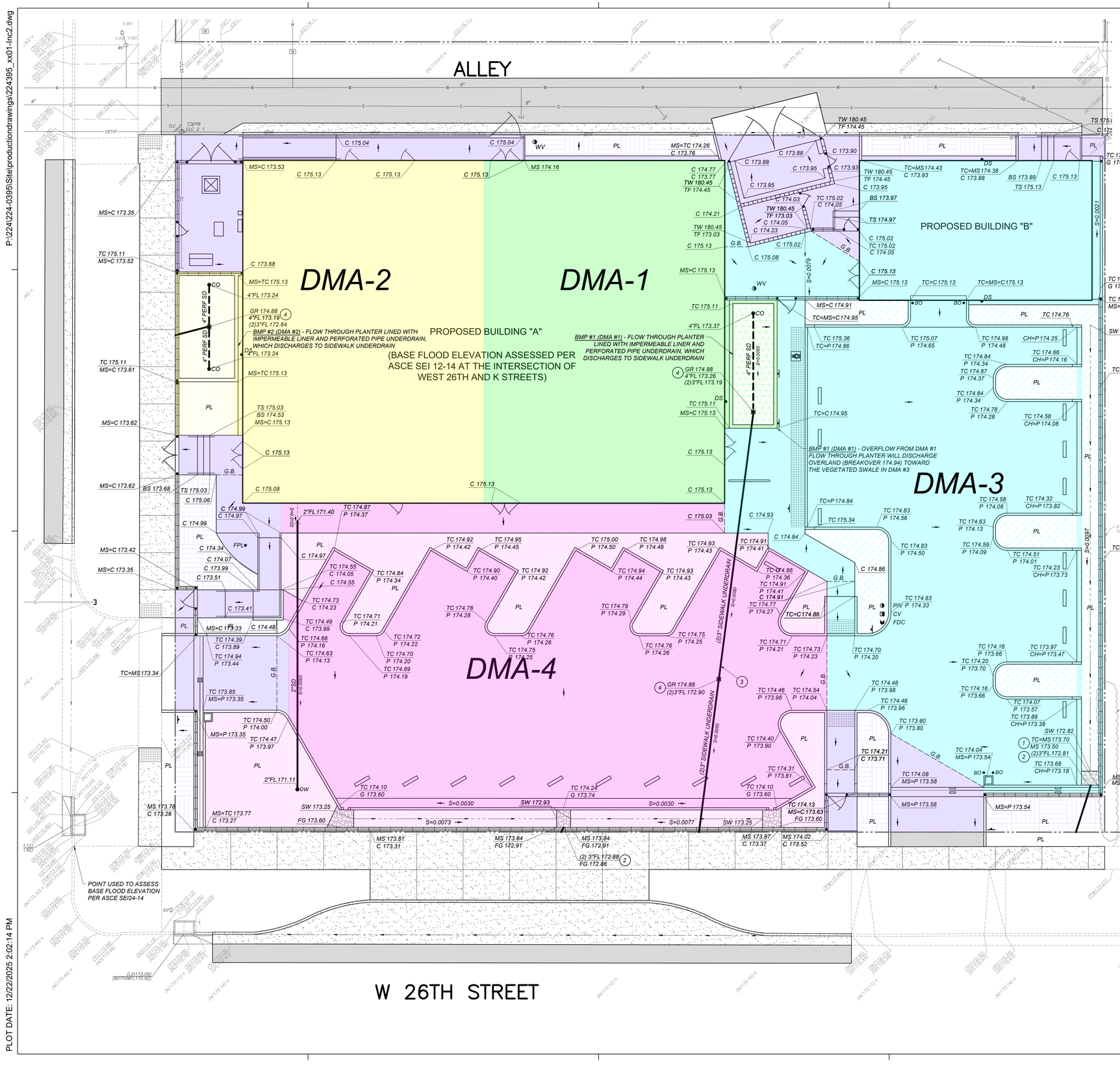

POST CONSTRUCTION DMA SUMMARY

DMA	AREA (SF)	I (IN/HR)	PRE DEVELOPMENT			POST DEVELOPMENT			BMP
			% IMPERVIOUS	C FACTOR	Q (CFS)	% IMPERVIOUS	C FACTOR	Q (CFS)	
1	4,200	0.2	100	0.85	.016	94	0.82	0.016	1
2	4,321	0.2	100	0.85	.016	90	0.80	0.016	2
3	8,757	0.2	100	0.85	.034	86	078	0.031	3
4	8,835	0.2	92	0.81	.032	69	0.69	0.024	4
5	4,095	0.2	93	0.81	.013	73	0.70	0.013	N/A

POST CONSTRUCTION BMP SUMMARY

BMP	DESCRIPTION	SIZING CRITERIA	DESIGN FLOW (CFS)	BMP FLOW CAPACITY (CFS)
1	FLOW THROUGH PLANTER	FLOW	0.016	0.12
2	FLOW THROUGH PLANTER	FLOW	0.016	012
3	VEGETATED SWALE	FLOW	0.031	0.12
4	VEGETATED SWALE	FLOW	0.024	0.12

DMA PLAN LEGEND:

- DMA #1 - IMPERVIOUS AREA 3,901 SF
- DMA #1 - PERVIOUS AREA 229 SF
- DMA #2 - IMPERVIOUS AREA 3,909 SF
- DMA #2 - PERVIOUS AREA 412 SF
- DMA #3 - IMPERVIOUS AREA 7,592 SF
- DMA #3 - PERVIOUS AREA 1,165 SF
- DMA #4 - IMPERVIOUS AREA 6,153 SF
- DMA #4 - PERVIOUS AREA 2,682 SF
- DMA #5 - AREA 4,095 SF

SCALE: N 1"=10'

0 5 10 20 SCALE IN FEET

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FRESNO HEADQUARTERS
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MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
DMA

PROJECT NO.
24-13084.00

DRAWING
X000-02

PLOT DATE: 12/22/2025 2:02:14 PM

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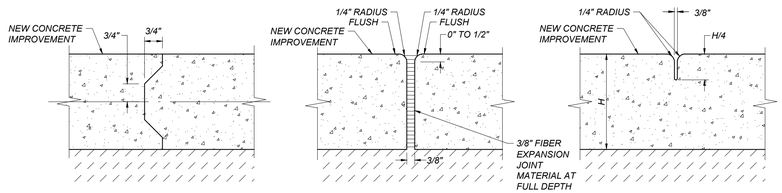
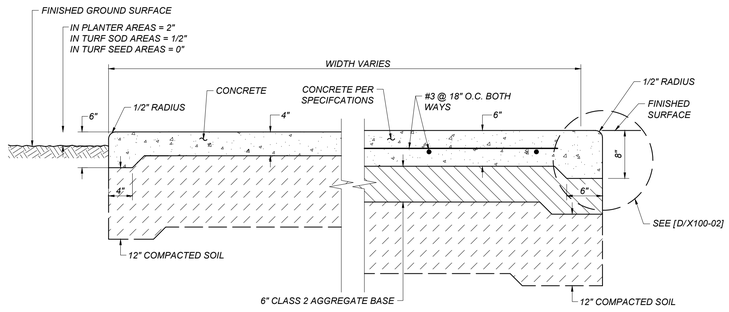


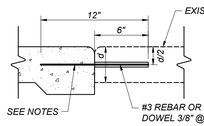


A X100-02 CONCRETE WALK

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.



D X100-02 DOWEL BAR

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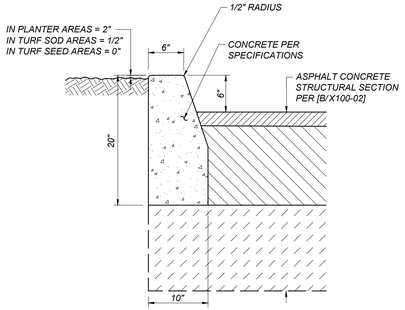

E X100-02 CONCRETE CURB

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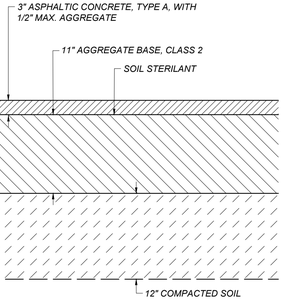

STANDARD DUTY

B X100-02 ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTIONS

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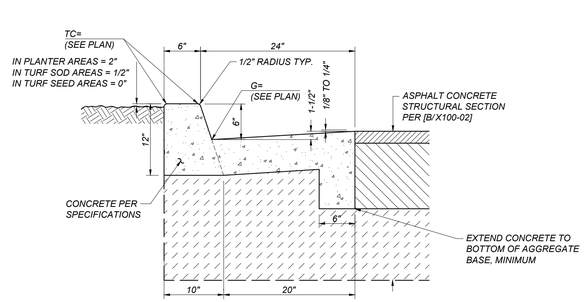

F X100-02 CONCRETE CURB AND GUTTER

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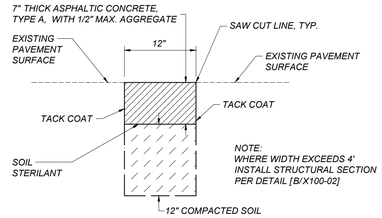

C X100-02 ASPHALT CONCRETE PLUG

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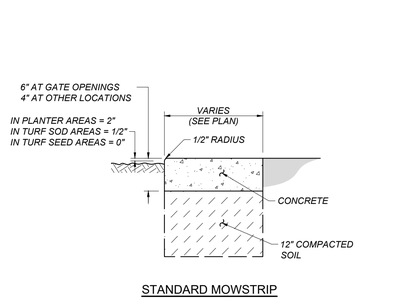

STANDARD MOWSTRIP

G X100-02 CONCRETE MOWSTRIP

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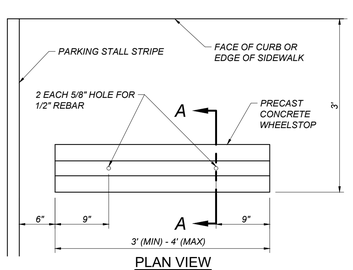
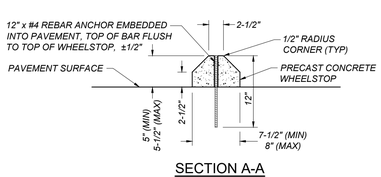


PLAN VIEW



SECTION A-A

H X100-02 TYPICAL WHEELSTOP

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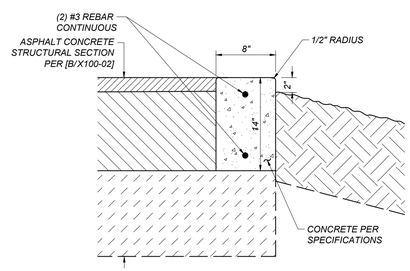

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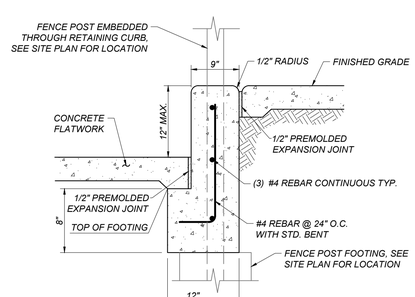

J X100-02 RETAINING CURB

NOT TO SCALE

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ARCHITECTS ENGINEERS CONNECTED
TETER

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MERCED CITY SCHOOL DISTRICT
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MERCED, CA 95348

DRAWING TITLE
SITE DETAILS

PROJECT NO.
24-13084.00

DRAWING
X100-02

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CONSULTING ENGINEERS
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Clovis, California 93612
Tel (559) 326-1400
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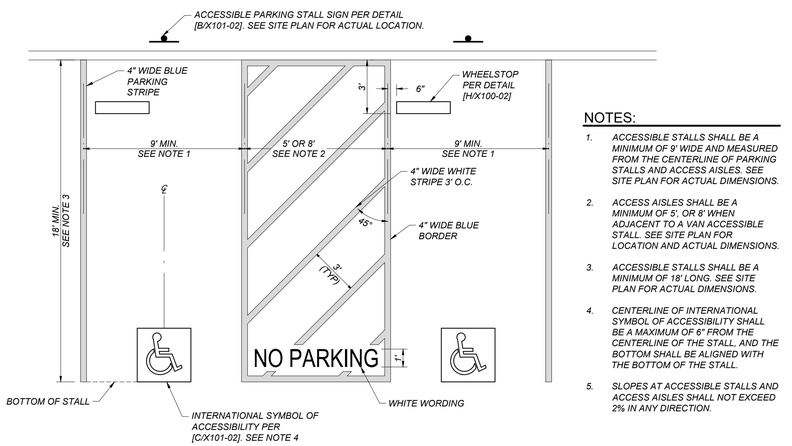
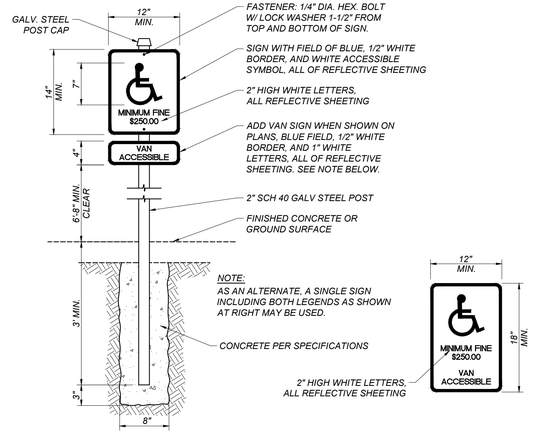
PLOT DATE: 12/22/2025 2:02:21 PM



NOTES:

1. ACCESSIBLE STALLS SHALL BE A MINIMUM OF 9' WIDE AND MEASURED FROM THE CENTERLINE OF PARKING STALLS AND ACCESS AISLES. SEE SITE PLAN FOR ACTUAL DIMENSIONS.
2. ACCESS AISLES SHALL BE A MINIMUM OF 5', OR 8' WHEN ADJACENT TO A VAN ACCESSIBLE STALL. SEE SITE PLAN FOR LOCATION AND ACTUAL DIMENSIONS.
3. ACCESSIBLE STALLS SHALL BE A MINIMUM OF 18' LONG. SEE SITE PLAN FOR ACTUAL DIMENSIONS.
4. CENTERLINE OF INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6" FROM THE CENTERLINE OF THE STALL, AND THE BOTTOM SHALL BE ALIGNED WITH THE BOTTOM OF THE STALL.
5. SLOPES AT ACCESSIBLE STALLS AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

A X101-02 ACCESSIBLE PARKING STALL DETAIL
NOT TO SCALE



B X101-02 ACCESSIBLE PARKING STALL SIGN
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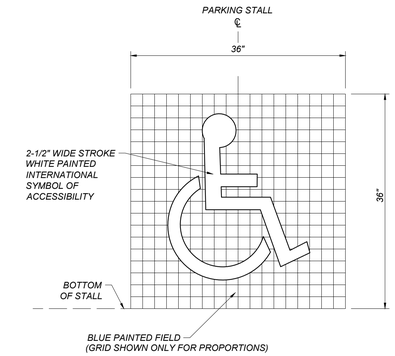
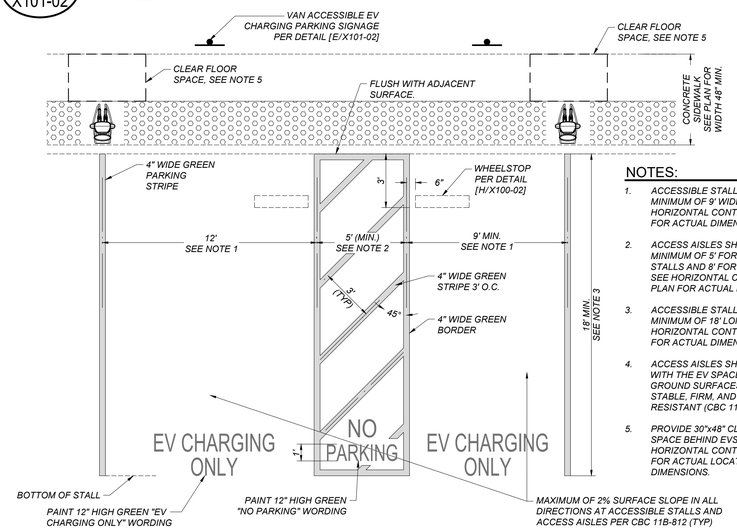


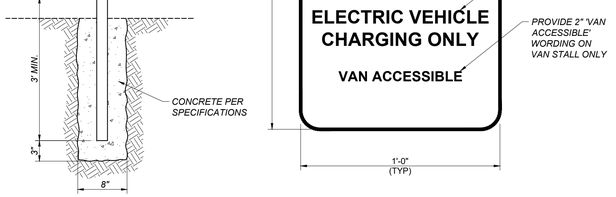
C X101-02 ACCESSIBLE SYMBOL
NOT TO SCALE



NOTES:

1. ACCESSIBLE STALLS SHALL BE A MINIMUM OF 9' WIDE SEE HORIZONTAL CONTROL PLAN FOR ACTUAL DIMENSIONS.
2. ACCESS AISLES SHALL BE A MINIMUM OF 5' FOR STANDARD STALLS AND 8' FOR VAN STALLS. SEE HORIZONTAL CONTROL PLAN FOR ACTUAL DIMENSIONS.
3. ACCESSIBLE STALLS SHALL BE A MINIMUM OF 18' LONG. SEE HORIZONTAL CONTROL PLAN FOR ACTUAL DIMENSIONS.
4. ACCESS AISLES SHALL BE LEVEL WITH THE EV SPACE SERVED. GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT (CBC 11B-302)
5. PROVIDE 30"x48" CLEAR FLOOR SPACE BEHIND EVSE. SEE HORIZONTAL CONTROL PLAN FOR ACTUAL LOCATION AND DIMENSIONS.

D X101-02 ACCESSIBLE EV CHARGING PARKING STALL DETAIL
NOT TO SCALE



E X101-02 TYPICAL ACCESSIBLE EV CHARGING SIGN
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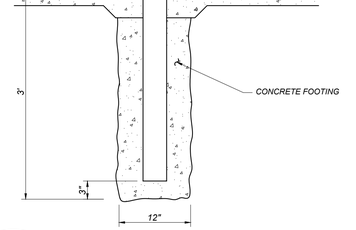

F X101-02 FIXED PROTECTION POST
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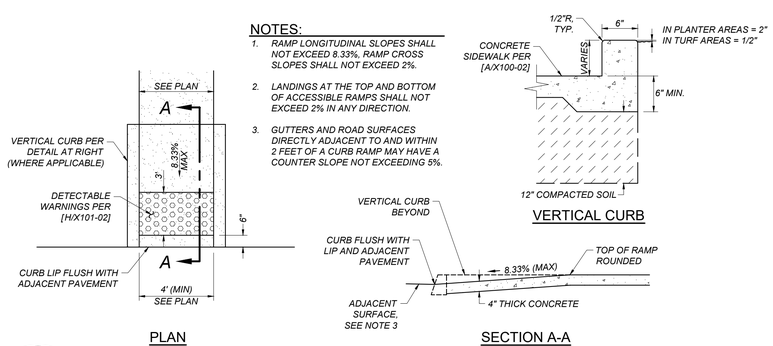

G X101-02 PERPENDICULAR CURB RAMP
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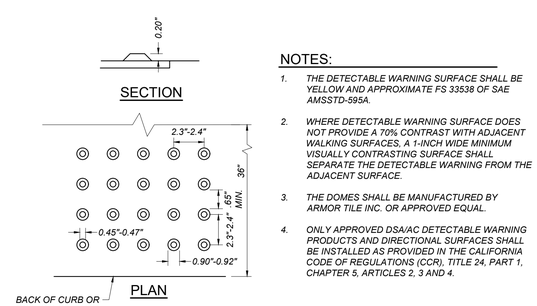

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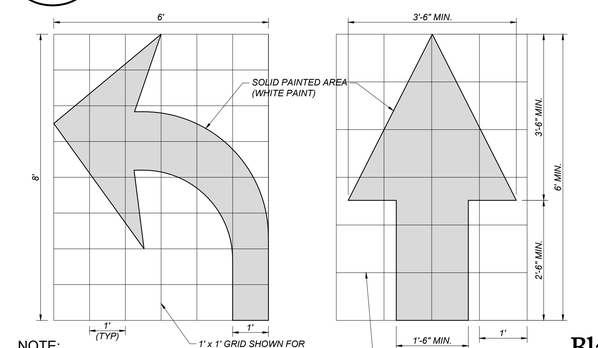

I X101-02 DIRECTIONAL ARROWS
NOT TO SCALE

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SITE DETAILS

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DRAWING
X101-02

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Clovis, California 93612
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Plot by: jjones Dec 22, 2025 - 2:02pm

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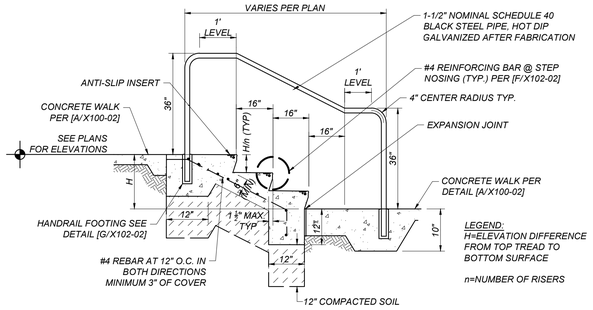

A X102-02 TYPICAL SECTION AT STEPS AND HANDRAIL

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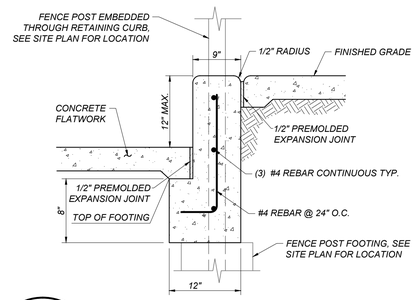
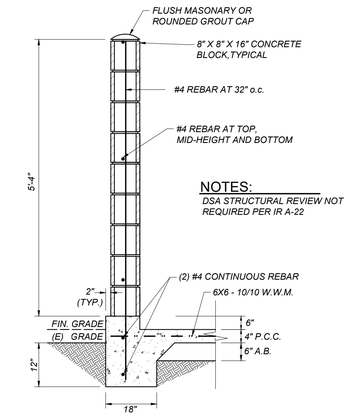


B X102-02 RETAINING CURB

NOT TO SCALE



C X102-02 CMU WALL

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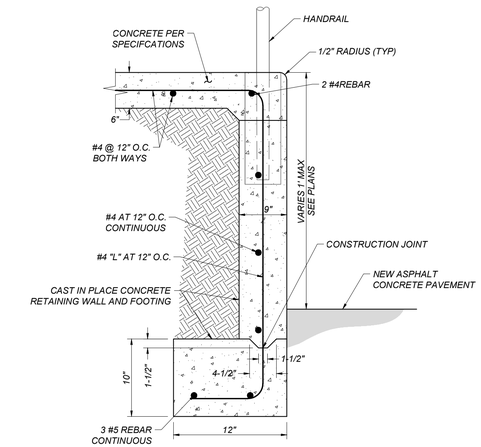

D X102-02 RETAINING WALL

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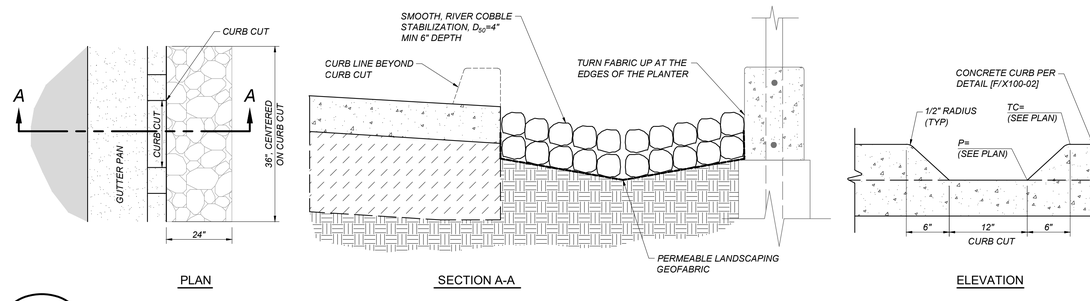
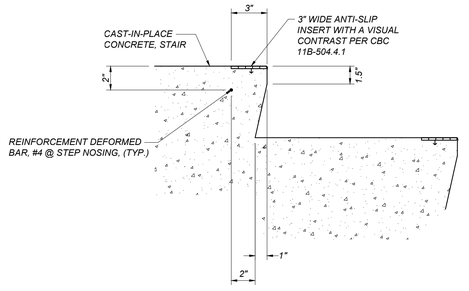


E X102-02 CONCRETE CURB CUT

NOT TO SCALE



F X102-02 STAIR NOSING

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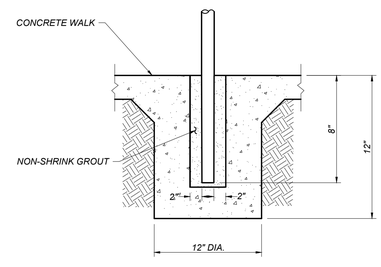

G X102-02 HANDRAIL FOOTING

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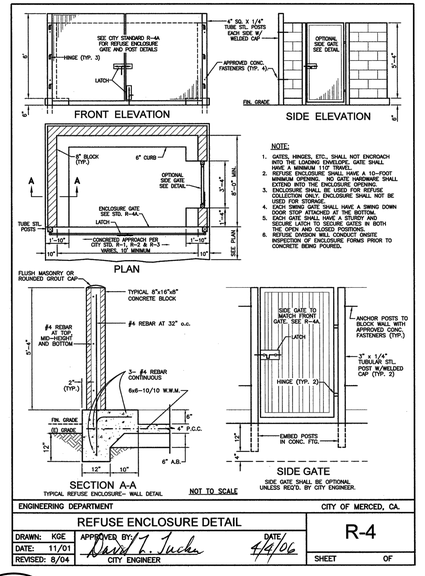
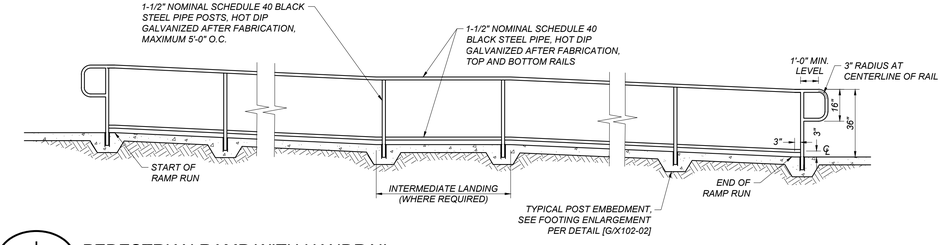


H X102-02 REFUSE ENCLOSURE

NOT TO SCALE



I X102-02 PEDESTRIAN RAMP WITH HANDRAIL

NOT TO SCALE

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KEVIN D. KOCH
No. 87218
CIVIL
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TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
SITE DETAILS

PROJECT NO.
24-13084.00

DRAWING
X102-02

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

Drawing: P:\224\224-0395\Site\productiondrawings\224395_dt01-Inc2.dwg, 1/102 - ~~~
Plotted by: jlyles Date: 12/22/2025 - 2:52pm

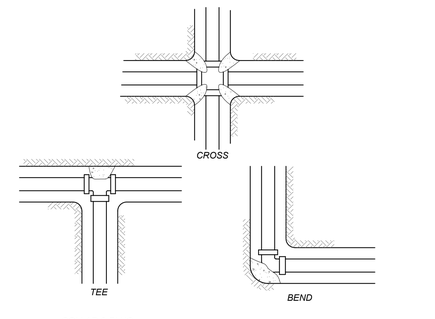
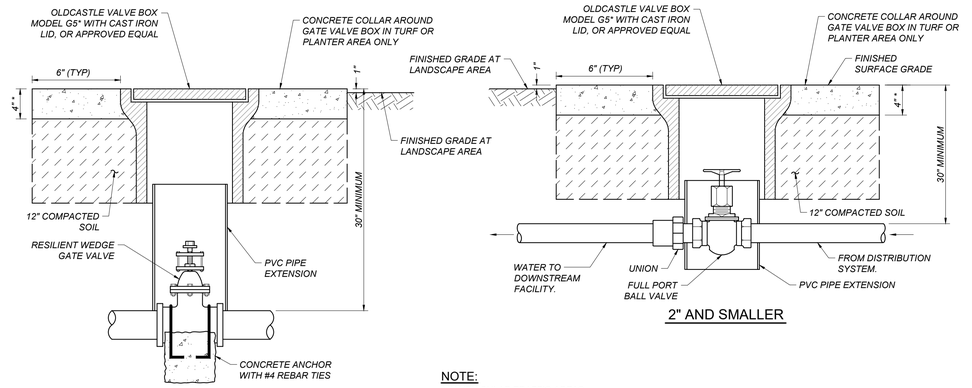


Table Of Bearing Areas Required (In Square Feet)*					
Pipe Diameter	4" Or Smaller	6"	8"	10"	12"
Cross, Tee, 90° Bend, Plug, Hydrant, Valve	6.3	13.2	22.7	34.2	48.3
45° Bend	3.4	7.1	12.3	18.5	26.1
22 1/2° Bend	1.7	3.6	9.4	9.4	13.3
11 1/4° Bend	0.9	1.8	4.7	4.7	6.7

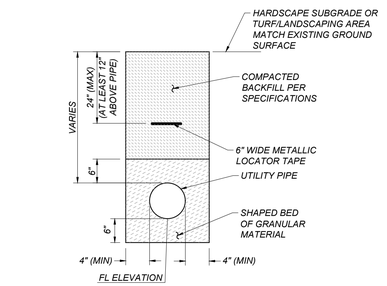
* TABLE CALCULATED BASED ON NFPA 24, CURRENT EDITION TABLE A.10.8.2(b), WITH 250 PSI WATER PRESSURE AND 1500 PSF SOIL BEARING PRESSURE.

A X103-02 CONCRETE THRUST BLOCKS
NOT TO SCALE

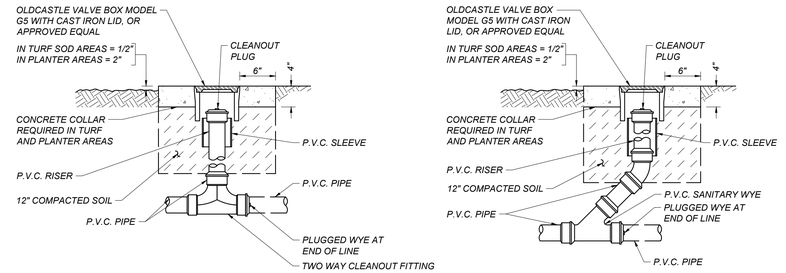


NOTE:
* IN VEHICULAR TRAFFIC AREAS, PROVIDE 6" THICK COLLAR AND TRAFFIC RATED LID

B X103-02 GATE VALVE AND LID
NOT TO SCALE

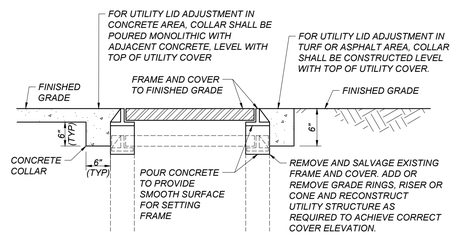


C X103-02 TRENCH DETAIL FOR UTILITY LINES
NOT TO SCALE



NOTES:
1. USE ONE-WAY CLEANOUTS AT ALL ANGLE POINTS
2. TWO-WAY CLEANOUTS AT ALL OTHER LOCATIONS
3. PROVIDE 6" THICK CONCRETE COLLAR AND TRAFFIC RATED LID IN VEHICULAR TRAFFIC AREAS

D X103-02 SURFACE CLEANOUT
NOT TO SCALE



E X103-02 ADJUST UTILITY LID
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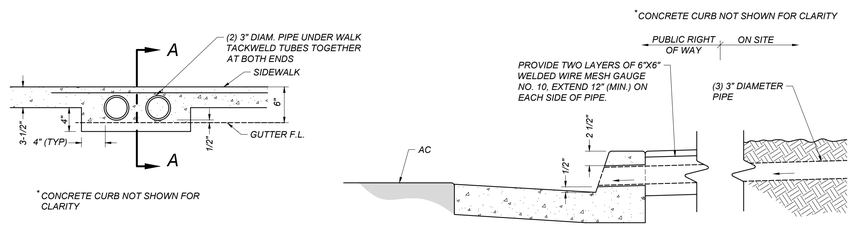

NOTES:
1. FOR 3" OR SMALLER DIAMETER PIPE, SCH. 40 PVC IS PERMITTED.
2. DRAIN SHALL NOT BE CONSTRUCTED UNDER A DRIVEWAY APPROACH.
3. SIDEWALK DRAINS, EXCEPT CHANNELS, SHALL BE ANGLED THROUGH SIDEWALK IN DIRECTION OF GUTTER FLOW.
4. ALL DRAINS AND CHANNELS SHALL BE FLUSH W/FACE OF CURB.
5. DRAIN SLOPES SHALL BE .010 FT/FT (MIN.) AND .042 FT/FT (MAX.)
6. SURFACE DRAINAGE OVER DRIVEWAY APPROACHES AND SIDEWALKS IS NOT PERMITTED WHEN THE AREA TO BE DRAINED EXCEEDS ¼ ACRE.

F X103-02 SIDEWALK PIPE UNDERDRAIN
NOT TO SCALE

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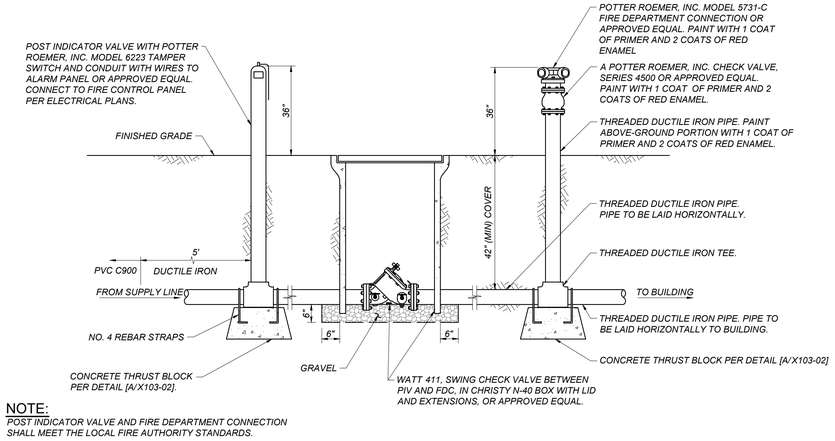
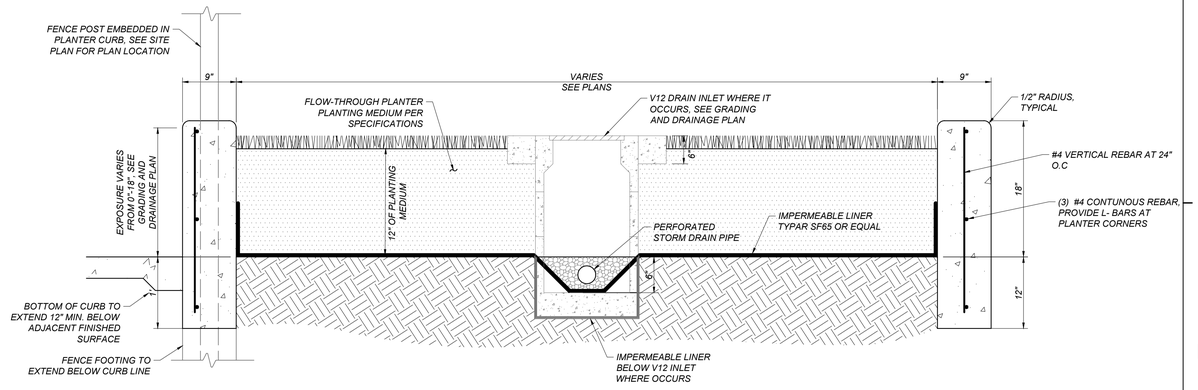


NOTE:
POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION SHALL MEET THE LOCAL FIRE AUTHORITY STANDARDS.

A / X104-02 — POST INDICATOR VALVE, CHECK VALVE, AND FIRE DEPARTMENT CONNECTION
NOT TO SCALE



B / X104-02 — FLOW THROUGH PLANTER AND CURBS
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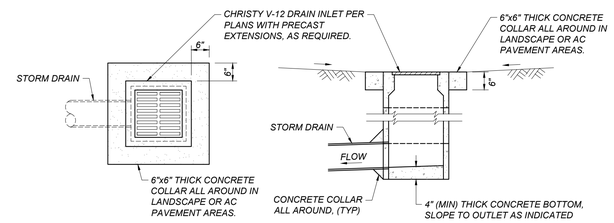
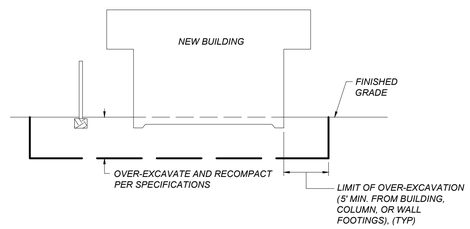
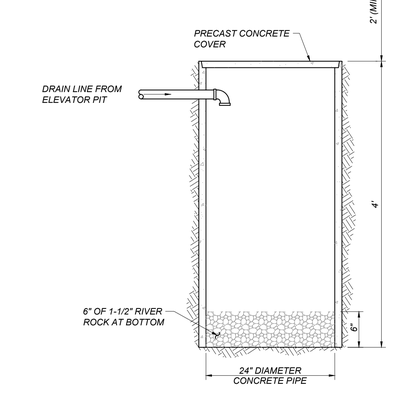


C / X104-02 — V-12 DRAIN INLET WITH CONCRETE COLLAR
NOT TO SCALE



D / X104-02 — OVER-EXCAVATION
NOT TO SCALE



E / X104-02 — DRY WELL
NOT TO SCALE

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PLOT DATE: 12/22/2025 2:02:38 PM
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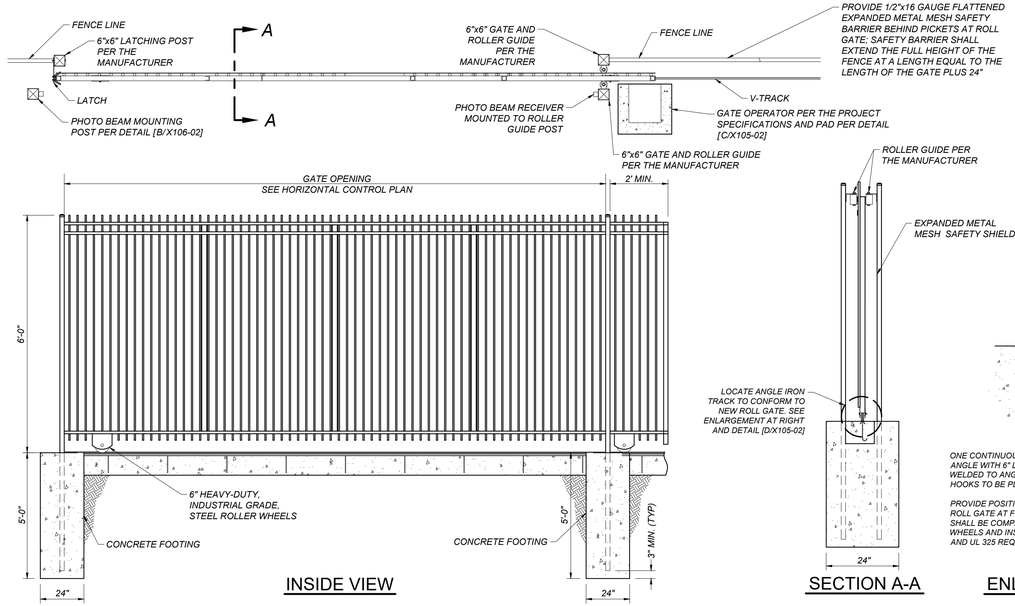

A X105-02 MOTORIZED DECORATIVE METAL ROLL GATE
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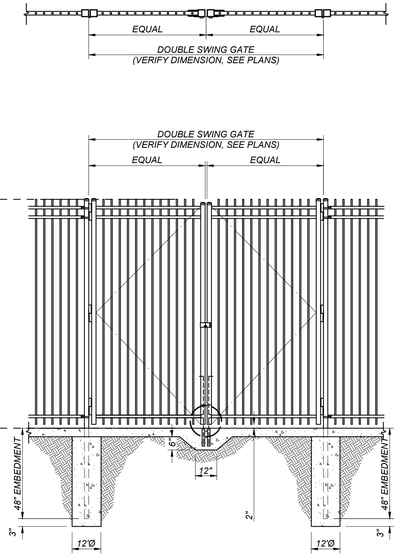

B X105-02 DECORATIVE METAL DOUBLE SWING GATE
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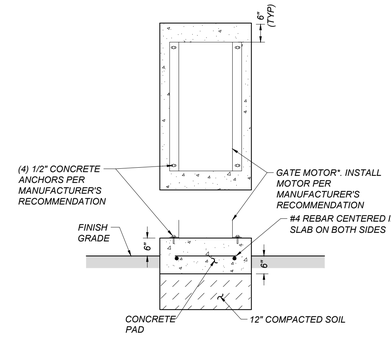

C X105-02 GATE MOTOR PAD
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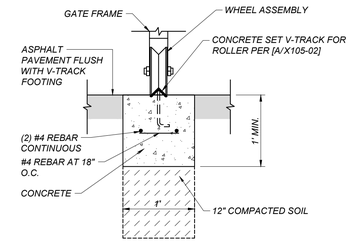

D X105-02 V-TRACK FOOTING
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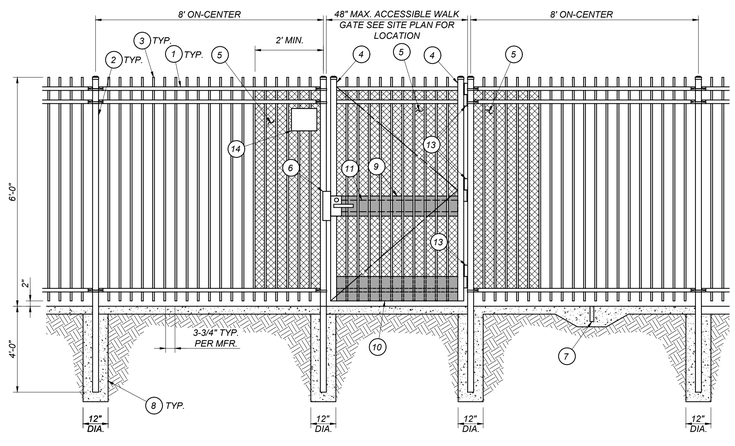
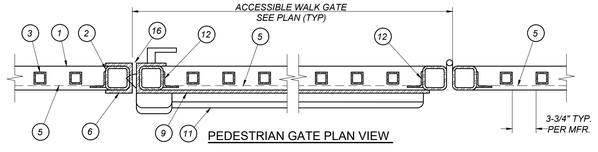
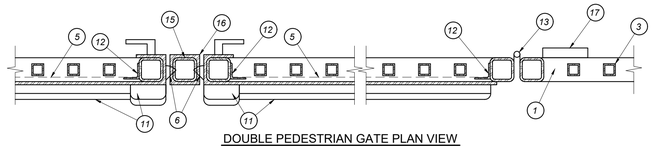


GATES AND FENCE ELEVATION

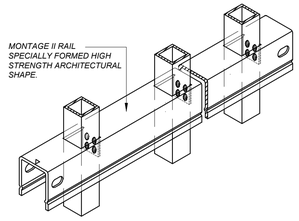


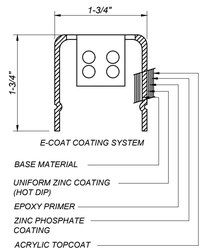
PEDESTRIAN GATE PLAN VIEW



DOUBLE PEDESTRIAN GATE PLAN VIEW

E X105-02 6' DECORATIVE METAL FENCE, GATE, HINGE AND LATCH
NOT TO SCALE





FENCE AND GATE NOTES:

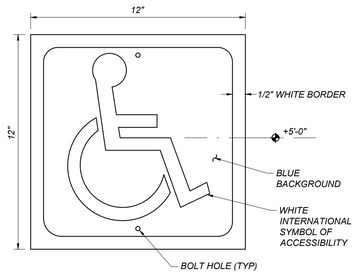
1. FENCE TO BE AMERISTAR MONTAGE II "GENESIS" STYLE FENCING OR APPROVED EQUAL. CONTRACTOR TO COORDINATE PLACEMENT OF STEEL POSTS FOR FENCING TO WHICH OCCURS ADJACENT TO BUILDINGS, COLUMNS OR BLOCK WALLS PRIOR PLACING CONCRETE. VERIFY CLEAR OPENINGS IN FIELD PRIOR TO CONSTRUCTION.
2. FENCE PANEL SYSTEM 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.

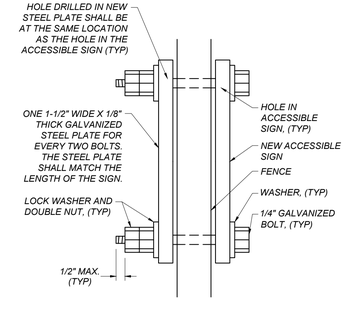
DECORATIVE METAL FENCE AND GATE LEGEND:

1. 1-3/4"W x 1-3/4"H x 12GA. HORIZONTAL RAILING FENCE PER MANUFACTURER
2. 3" SQ. x 12GA. TUBE STEEL POST PER 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. STRIKE PLATE
7. INSTALL GATE HOLDBACK FOR ALL GATES.
8. CONCRETE FOOTING, TYPICAL.
9. 12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON THE INTERIOR SIDE, THE FULL WIDTH OF THE GATE. 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. THE KICK PLATE AND WELDS SHALL BE POWDER COATED TO MATCH FENCE.
11. 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. LOCKABLE LEVER-TYPE GATE LATCH, RHODES SCHLAGE LEVER LOCK WITH RHODES SCHLAGE LOCK BOX WITH MODEL ND80PD KEYED LOCK IS ACCEPTABLE OR APPROVED EQUAL. VON DUPRIN 99 SERIES RIM EXIT DEVICE OR APPROVED EQUAL MOUNTED TO PUSH-SIDE OF GATE. OTHERWISE, INSTALL LOCKABLE GATE LATCH.
12. 1" x 1" x 1/8" METAL ANGLE WELD WITH METAL GATE FRAME
13. HINGES PER SPECIFICATIONS
14. ACCESSIBLE GATE SIGN PER DETAIL [F/X105-02]
15. REMOVABLE MULLION POST PER [C/X106-02]
16. GATE LATCH ENCLOSURE PER [A/X106-02]
17. SECURITY KEYPAD CARD READER MOUNTED TO FENCE ADJACENT TO ACCESSIBLE GATES, WHERE SPECIFIED. HARDWARE PER THE SPECIFICATIONS

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 ABOVE.





F X105-02 ENTRY ACCESSIBILITY SIGN
NOT TO SCALE

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FENCE DETAILS

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Plot by: jjuka Dec 22, 2025 - 2:02pm

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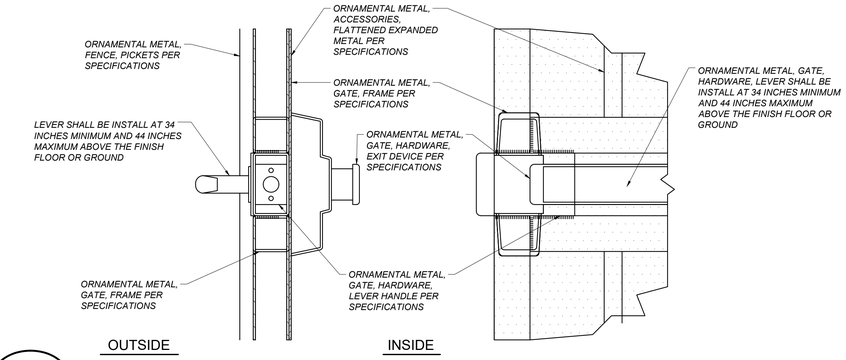

A X106-02 GATE LATCH ENCLOSURE
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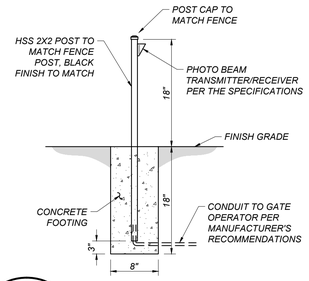

B X106-02 PHOTO BEAM MOUNTING POST
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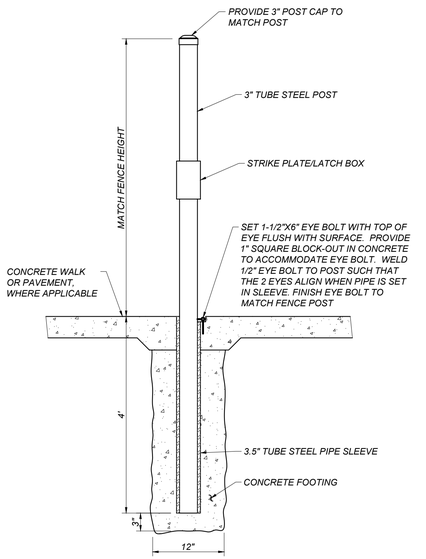

C X106-02 REMOVABLE MULLION POST
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DATE: 01/08/2026

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. KOLB
No. 87218
CIVIL
STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
FENCE DETAILS

PROJECT NO.
24-13084.00

DRAWING
X106-02

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

Drawing: P:\224\224-0395\Site\productiondrawings\224395_dt02-inc2.dwg, Layout1 (2) -- BCF,CTB
Plot By: Jeffrey Kolb - 12/22/2025 - 2:02:53 PM

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PLOT DATE: 12/22/2025 2:02:53 PM

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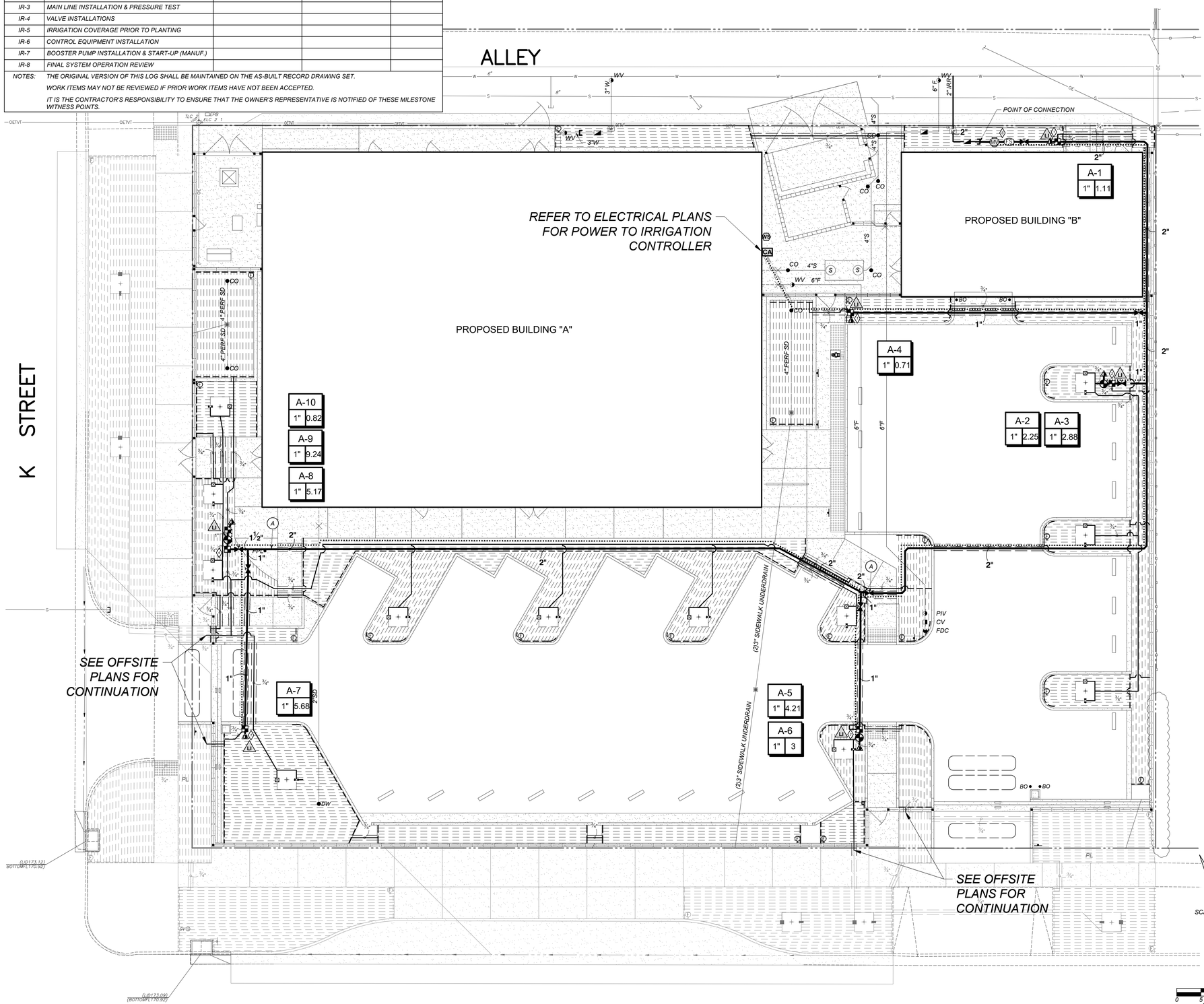
IRRIGATION SYSTEM OBSERVATION LOG:				
		REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE		
ITEM NO.	WORK ITEM DESCRIPTION	PRINT NAME	SIGNATURE	DATE
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST			
IR-4	VALVE INSTALLATIONS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

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.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE OWNER'S REPRESENTATIVE IS NOTIFIED OF THESE MILESTONE WITNESS POINTS.



POINT OF CONNECTION

WATER SERVICE SIZE: 2"

WATER METER SIZE/75% MAX FLOW: 2" / 120 GPM

MAXIMUM STATION FLOW: 9.53 GPM

IRRIGATION BACKFLOW SIZE: 2"

IRRIGATION WATER SOURCE: CITY OF MERCED, POTABLE
EXISTING STATIC PRESSURE: 47.7 PSI

SEE IRRIGATION GENERAL NOTE #3

DESIGN OPERATING PRESSURE:
30 PSI BUBBLERS
30 PSI DRIPLINE

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE PERFORMANCE COMPLIANCE OPTION CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

CARL D. HESKETT, PLA 6932

WATER EFFICIENT LANDSCAPE WORKSHEET
Educational - DSA PR 15-03

Project: 26th Street MARS/ELO-P Facility (Onsite)
Location: 2600 K St, Merced, CA 95348
ETo Reference (MWELO-Apdx. A): Merced

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

TOTAL LANDSCAPE AREA (LA)	4,759	SF	(500 sf is threshold for inclusion)
SPECIAL LANDSCAPE AREA (SLA)	0	SF	(SLA is included in the total LA)
REGULAR LANDSCAPE AREA	4,759	SF	(<2,500 sf can use checklist)

NORMAL YEAR REFERENCE	ANNUAL
EVAPOTRANSPIRATION (ETo)	55.7
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0
ADJUSTED EVAPOTRANSPIRATION	55.7

MAWA=(ETo) x (0.62) [(0.45 x LA)+(0.55 x SLA)] ANNUAL 2015 DWR Update

MAX. APPLIED WATER ALLOWANCE	**106.8**	K Gallons
TOTAL IN ACRE/FT	0.3	
TOTAL IN CCF	143	

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

LANDSCAPE HYDROZONE TYPES	4,759	HA	PF	IE	ETAF
MIXED PLANTING (L)	4,759	SF	0.3	0.81	0.37
MIXED PLANTING (M)	0	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:					0.37
MAXIMUM AVERAGE REGULAR ETAF:					**0.45**
AVERAGE SITEWIDE ETAF:					0.37

ETWU=(ETo) x (0.62)x [(HA x PF/IE) + SLA]	ANNUAL		typical IE coeficients
MIXED PLANTING (L)	61	0.75	overhead sprinklers
MIXED PLANTING (M)	0	0.81	drip & bubblers
WARM-SEASON TURFGRASS (M)	0		
SLA - RECREATIONAL/RECYCED WATER USE	0		
ESTIMATED TOTAL WATER USE	**61**	K Gallons	
TOTAL IN ACRE/FT	0.2		
TOTAL IN CCF	81		

ETWU AS A PERCENT OF MAWA: 57%

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.*

SEE SHEET L102-02 FOR IRRIGATION LEGEND

SEE SHEET L103-02 & L104-02 FOR IRRIGATION NOTES AND DETAILS

SCALE: N 1"=10'

0 5 10 20 SCALE IN FEET

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

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

REGISTERED LANDSCAPE ARCHITECT
CARL D. HESKETT
No. 6932
7/31/27
Renewal Date
08/29/2025
Date
STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
IRRIGATION PLAN

PROJECT NO.
24-13084.00

DRAWING
L101-02

Drawing: P:\224\224-0395\Site\productiondrawings\224395_ir01-Inc2_dwg; C101 — BCF.CTB
Plot by: Jake Cox - 12/22/2025 2:03:11 PM - 24x36

PLOT DATE: 12/22/2025 2:03:11 PM

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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. THE IRRIGATION CONTROLLER SHALL HAVE A DEDICATED EARTH GROUND, BY MEANS OF BOTH A TEN FOOT LONG STEEL COPPER CLAD GROUND ROD, AND BY A PAIGE GROUNDING PLATE. THE GROUND ROD OR PLATE SHALL BE LOCATED AT LEAST 8 FEET AWAY FROM THE CONTROLLER, AND THE PLATE SHALL BE ORIENTED PERPENDICULAR FROM THE WIRE RUN AND SHALL BE AT LEAST 36 INCHES BELOW GRADE. GROUNDING CIRCUIT RESISTANCE SHALL BE LESS THAN OR EQUAL TO 10 OHMS.
3. 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.
4. 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.
5. 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.
6. USE ONE DECODER STATION TO OPERATE ONE CONTROL VALVE. GROUPED VALVES MAY USE MULTIPLE STATION DECODERS (2, 4, OR 6 OUTPUTS IN ONE DECODER). FLOW AND/OR CLICK TYPE SENSORS SHALL USE AN APPROPRIATE SENSOR DECODER. USE A SINGLE STATION DECODER FOR ANY PUMP START OR MASTER VALVE PURPOSE.
7. 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.

IRRIGATION LEGEND:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS	DETAIL
⊠	HUNTER MSBN-25Q 25Q ON A HUNTER PROS-04-PRS30-CV BODY	90	30	0.25	1"	F/L103
⊠	HUNTER RZWS-18-CV 50 18IN. LONG RZWS WITH INSTALLED .50 GPM BUBBLER OPTIONS, CHECK VALVE, 1/2IN. SWING JOINT	360	25	0.5	3"	F/L103

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
■	HUNTER ICZ-101-40-LF DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40 PSI. FLOW RANGE: .5 GPM - 15 GPM. 150 MESH STAINLESS STEEL SCREEN.	A/L103
⊕	FLUSH VALVE MANUAL ASSEMBLY	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
◭	QUICK COUPLER HUNTER HQ-44LRC	J/L102
⋈	NIBCO F-619-RW-SON CAST IRON RESILIENT WEDGE GATE VALVE W/ 2" OPERATING NUT SIZE EQUAL TO MAINLINE	F/L102
MV	SUPERIOR 3000 2" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND 3-WAY SOLENOID DESIGN.	K/L103
◪	FEBCO 825YA 2" REDUCED PRESSURE BACKFLOW PREVENTER	H/L103
CA	HUNTER A2C-75D HUNTER ACC2 IRRIGATION CONTROLLER TWO-WIRE, ETHERNET, METAL PEDESTAL	K/L102
WS	HUNTER SOLAR-SYNC WSS-SEN, WIRELESS SOLAR, RAIN FREEZE SENSOR WITH GUTTER MOUNT BRACKET. MOUNT TO ROOF EAVE WITHIN LINE OF SIGHT OF THE IRRIGATION CONTROLLER. PROVIDE SMART CONNECT MODULE AT CONTROLLER.	G/L103
LI	LIGHTNING ARRESTOR LIGHTNING ARRESTOR AND GROUND ROD OR PLATE PER HUNTER SPECIFICATIONS (EVERY 600 FEET) AND AT THE END OF DEAD-END BRANCH LINES	J/L103
FS	HUNTER HFS-200 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 2IN. SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.	I/L102
M	WATER METER 2" 53-10%=47.7 PSI, WATER TEST 5/22/25	SEE CIVIL UTILITY PLANS
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 SOLVENT WELD, BELL-END, SIZE AS NOTED	C/L103-02
	IRRIGATION MAINLINE: PVC SCHEDULE 40 SOLVENT WELD, BELL-END, SIZE AS NOTED	C/L103-02
	PIPE SLEEVE: PVC SCHEDULE 40 TWICE PIPE SIZE	D/L102
	CONTROL WIRE SLEEVE	E/L102-02
	DRIPLINE MANIFOLD: PVC SCHEDULE 40	B/L103-02
	TWO-WIRE CABLE IN CONDUIT	E/L102-02
# / #" / #	VALVE NUMBER VALVE FLOW (GPM) VALVE SIZE	
◊	HUNTER ACC2 TWO WIRE STATION DECODERS. DECODER MODULE NUMBER: 1 = 1-STATION ICD DECODER 2 = 2-STATION ICD DECODER 4 = 4-STATION ICD DECODER S = SENSOR DECODER FOR ICD DECODER SYSTEMS	
+	PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201-02 FOR VARIETY AND SIZE	
(A)	PIPE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL PIPE WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8	

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

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

REGISTERED LANDSCAPE ARCHITECT
JOHN PAUL FLYNN
No. 5644
7/31/27
Renewal Date
CALIFORNIA
STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
IRRIGATION LEGEND

PROJECT NO.
24-13084.00

DRAWING
L102-02

Drawing: P:\224\224-0395\Site\productiondrawings\224395_irdt01-Inc2.dwg; Irrigation Legend — BCF.CTB
Plot by: Julia Mon, Dec 22, 2025 - 2:03pm

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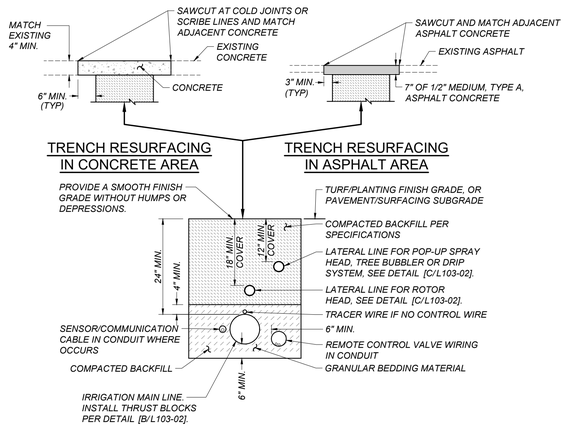
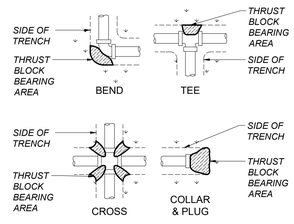


TYPICAL TRENCH SHOWN IN PLANTING AREA

A L103-02 IRRIGATION TRENCH BACKFILL
NOT TO SCALE

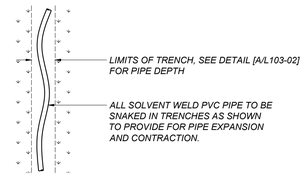


NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

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 L103-02 CONCRETE THRUST BLOCKS
NOT TO SCALE

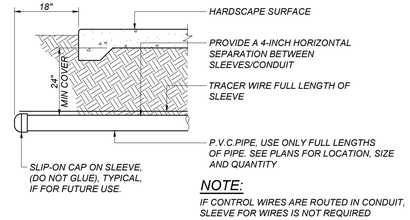


C L103-02 SOLVENT WELD PIPE
NOT TO SCALE

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

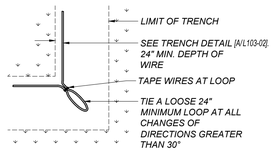
NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER



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

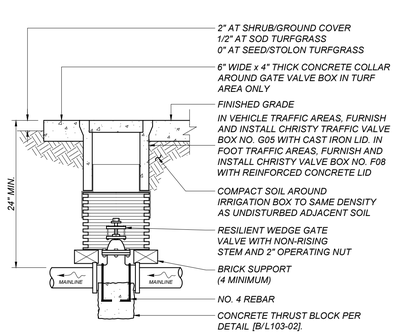
D L103-02 IRRIGATION SLEEVE/CONDUIT
NOT TO SCALE

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



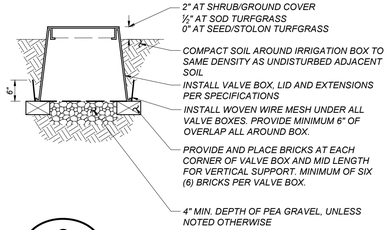
NOTES:
1. TWO-WIRE UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT PVC SCH. 40 TYPE II PIPE CONDUIT.
2. SPLICES ARE ALLOWED ONLY WITH DBRY-6 CONNECTORS.
3. A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.
4. SEE TWO-WIRE DECIDER SYSTEM NOTES.

E L103-02 TWO-WIRE CONTROL CABLE
NOT TO SCALE

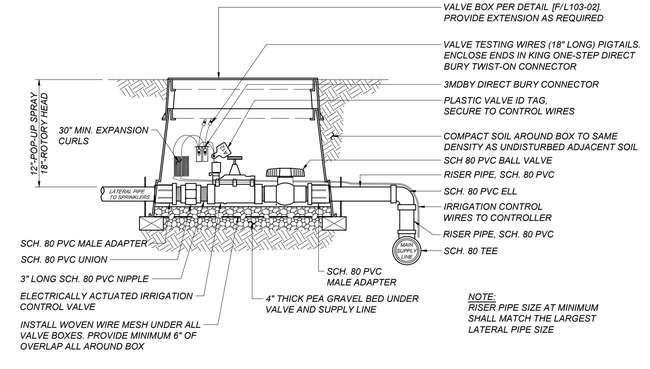


F L103-02 2" AND LARGER GATE VALVE
NOT TO SCALE

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.

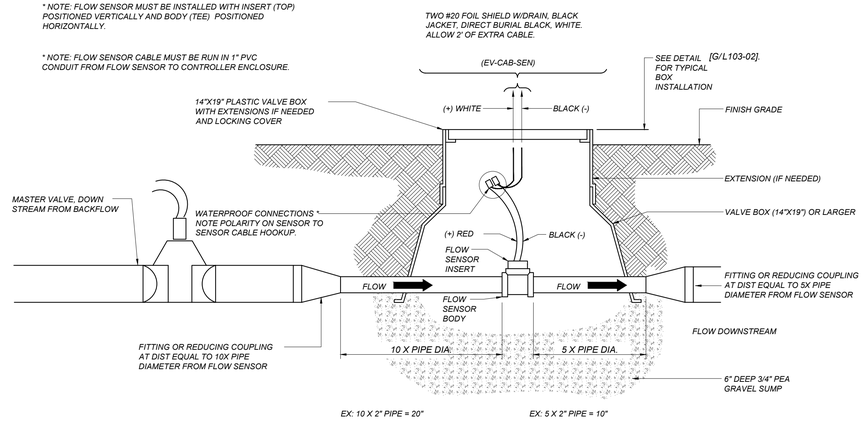


G L103-02 IRRIGATION VALVE BOX
NOT TO SCALE

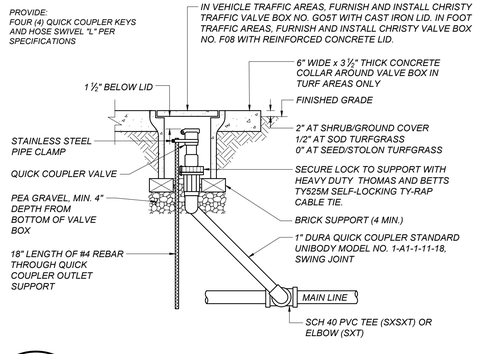


NOTE:
RISER PIPE SIZE AT MINIMUM SHALL MATCH THE LARGEST LATERAL PIPE SIZE

H L103-02 REMOTE CONTROL VALVE WITH BALL VALVE - GLOBE
NOT TO SCALE

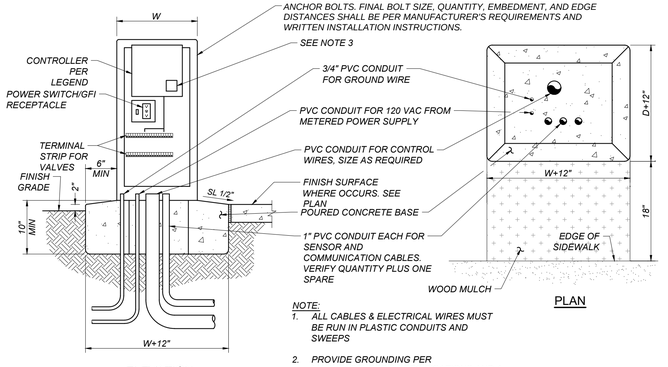


I L103-02 FLOW SENSOR AND MASTER VALVE
NOT TO SCALE



J L103-02 QUICK COUPLER VALVE
NOT TO SCALE

CONTROLLER ASSEMBLY IN A METAL PEDESTAL (UL LISTED) WIDTH = W, DEPTH = D. PEDESTAL SHALL BE ANCHORED TO CONCRETE BASE USING THE MANUFACTURER-SUPPLIED MOUNTING PLATE AND ANCHOR BOLTS. FINAL BOLT SIZE, QUANTITY, EMBEDMENT, AND EDGE DISTANCES SHALL BE PER MANUFACTURER'S REQUIREMENTS AND WRITTEN INSTALLATION INSTRUCTIONS.



ELEVATION

NOTE:
1. ALL CABLES & ELECTRICAL WIRES MUST BE RUN IN PLASTIC CONDUITS AND SWEEPS
2. PROVIDE GROUNDING PER MANUFACTURER'S SPECIFICATIONS AND A MINIMUM OF ONE GROUND ROD OR PLATE. INSTALL PER ASIC 100-2002 GUIDELINES
3. PROVIDE RECYCLED WATER DECAL ON ENCLOSURE PER CITY STANDARDS

K L103-02 PEDESTAL CONTROLLER ASSEMBLY
NOT TO SCALE

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REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER J. BLAIR
No. 5654
7/31/27
Renewal Date
08/29/2025
Date
STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
IRRIGATION DETAILS

PROJECT NO.
24-13084.00

DRAWING
L103-02

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

Drawing: P:\224\224-0395\Site\productiondrawings\224395_irdt01-inc2.dwg, irrigation details – BLT.CTB
Plot by: jjunk Dec 22, 2025 - 2:03pm

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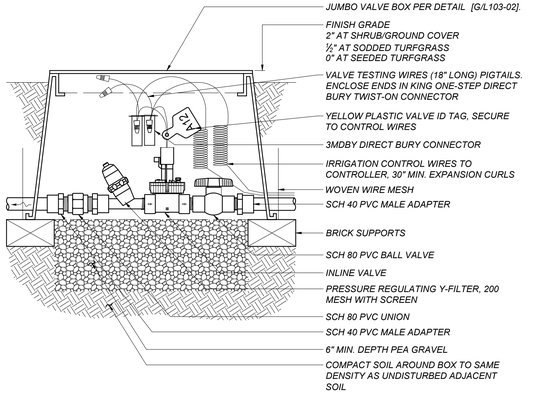
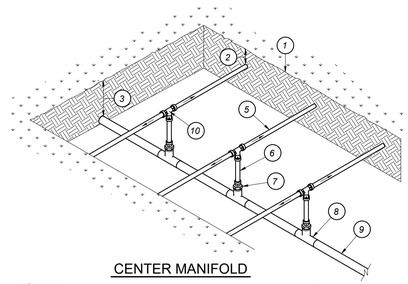


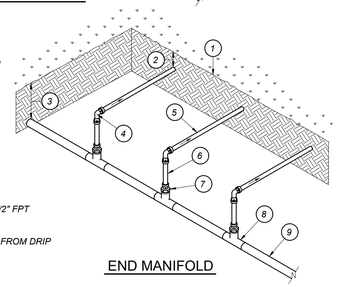
A L104-02 DRIP ZONE ASSEMBLY
NOT TO SCALE



CENTER MANIFOLD

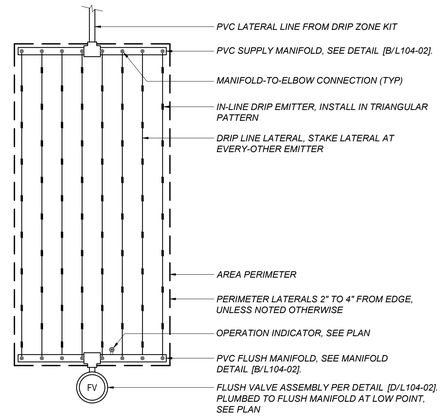
LEGEND:

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



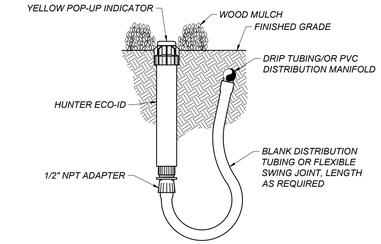
END MANIFOLD

B L104-02 DRIPLINE MANIFOLD
NOT TO SCALE

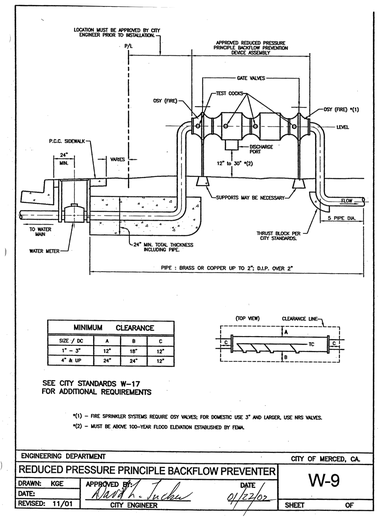


PLAN

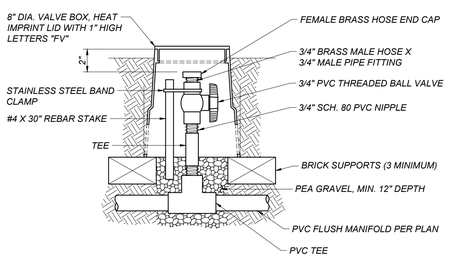
C L104-02 DRIPLINE LAYOUT SCHEMATIC
NOT TO SCALE



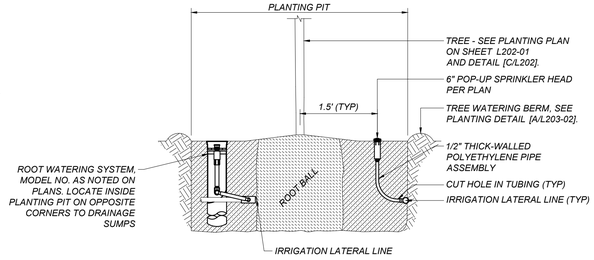
D L104-02 HUNTER ECO-INDICATOR
NOT TO SCALE



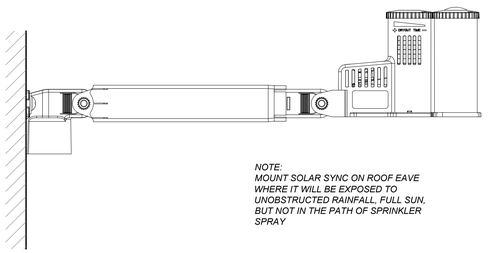
H L104-02 FEBCO MODEL 826YA BACKFLOW PREVENTER
NOT TO SCALE



E L104-02 DRIPLINE FLUSH VALVE
NOT TO SCALE

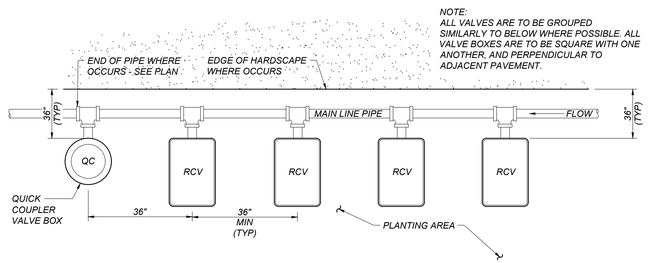


F L104-02 TREE BUBBLERS
NOT TO SCALE

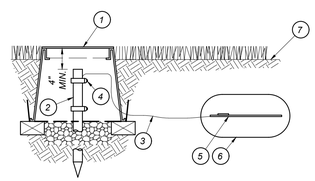


NOTE:
MOUNT SOLAR SYNC ON ROOF EAVE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, FULL SUN, BUT NOT IN THE PATH OF SPRINKLER SPRAY

G L104-02 HUNTER SOLAR SYNC
NOT TO SCALE



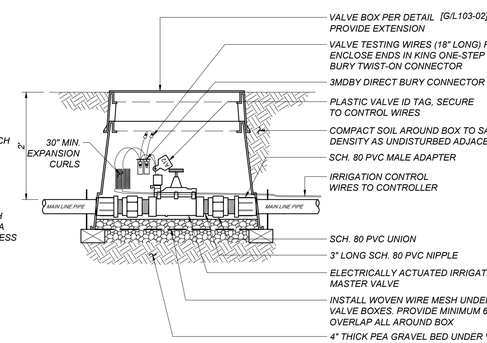
I L104-02 VALVE BOX LAYOUT
NOT TO SCALE



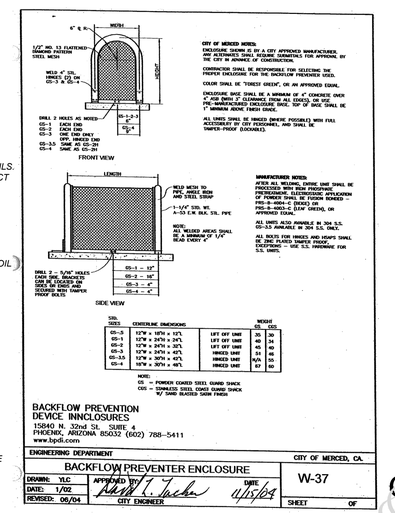
LEGEND:

1. COVER GROUNDING ROD WITH 10-INCH ROUND VALVE BOX AS SHOWN
2. 5/8-INCH X 10 FT COPPER CLAD GROUNDING ROD OR GROUNDING PLATE. INSTALL RODS IN SOIL IN A TRIAGULAR PATTERN SPACED A MINIMUM OF 16FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS
3. BARE COPPER WIRE (#6 AWG MIN.) BETWEEN GROUNDING ROD AND GROUND PLATE
4. GROUND ROD CLAMP OR WELDS
5. COPPER GROUNDING PLATE
6. GROUND ENHANCEMENT MATERIAL (IF REQUIRED)
7. FINISH GRADE

J L104-02 GROUNDING ROD
NOT TO SCALE



K L104-02 MASTER VALVE
NOT TO SCALE



L L104-02 BACKFLOW PREVENTER ENCLOSURE
NOT TO SCALE

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

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DATE: 01/08/2026

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

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
IRRIGATION DETAILS

PROJECT NO.
24-13084.00

DRAWING
L104-02

Drawing: P:\224\224-0395\Site\productiondrawings\224395_irdt01-inc2.dwg, 1:1(2) (2) – BCF.CTB
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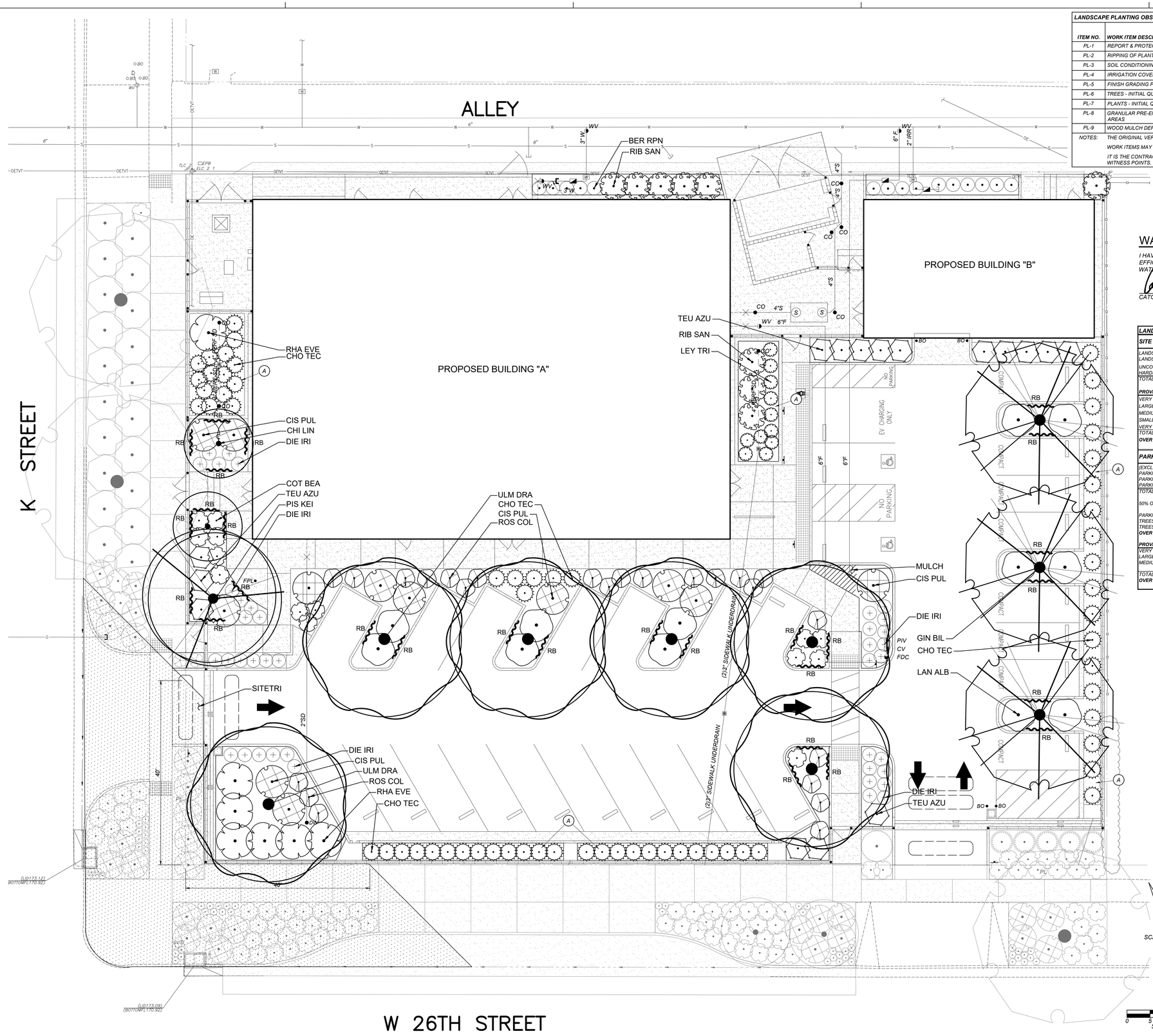

SEE SHEET L202-02 FOR PLANTING LEGEND

SEE SHEET L203-02 FOR PLANTING NOTES AND DETAILS

LANDSCAPE PLANTING OBSERVATION LOG:

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE 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.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE OWNER'S REPRESENTATIVE IS NOTIFIED OF THESE MILESTONE WITNESS POINTS.

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE PERFORMANCE COMPLIANCE OPTION CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

CATO M. HESKETT, RLA 6932

LANDSCAPE SHADE CALCULATIONS (DSA)	*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)	*1,394*	*20*	*279*
UNCOVERED HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)	*3,610*	*20*	*722*
TOTAL SITE SHADE REQUIRED			*1,001*
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)	*707*	*1*	
SMALL (20' dia.= 314 SF)	*628*	*2*	
VERY SMALL (10' dia.= 79 SF)	*0*	*0*	
TOTALS	*1,335*	*3*	
OVER (UNDER) LANDSCAPE & HARDSCAPE SHADE REQUIREMENT			***334***

PARKING LOT SHADING (City of Merced)	***QUANTITY PROPOSED (SF)***		
(EXCLUDE COVERED SOLAR/SHADE CANOPY AREAS)			
PARKING LOT STALLS & AISLES	*8,456*		
PARKING LOT LANDSCAPE	*3,633*		
PARKING LOT HARDSCAPE	*2,359*		
TOTAL PARKING AREA	*14,448*		
50% OF TOTAL PARKING AREA REQUIRING SHADE (SF)	*7,224*		
PARKING SPACES	*28*		
TREES REQUIRED (ONE TREE PER SIX PARKING SPACES)	*5*		
TREES PROVIDED	*9*		
OVER (UNDER) TREE REQUIREMENT	*4*		
PROVIDED SHADE TREES (30FT MIN. AT MATURITY)	***PROVIDED SHADE AREA***	***NO. TREES***	
VERY LARGE (40' dia.= 1256 SF)	*0*	*0*	
LARGE (35' dia.= 962 SF)	*8,658*	*9*	
MEDIUM (30' dia.= 707 SF)	*0*	*0*	
TOTALS	*8,658*	*9*	
OVER (UNDER) PARKING LOT SHADE REQUIREMENT			***1,434***

Know what's below. Call before you dig.

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

REGISTERED LANDSCAPE ARCHITECT
CATO M. HESKETT
No. 6932
Expires 7/31/27
Renewal Date
08/29/2025
STATE OF CALIFORNIA

TETER, INC.
ARCHITECTS ENGINEERS CONSULTANTS
FRESNO HEADQUARTERS
VISALIA I BAKERSFIELD I MODESTO I SAN LUIS OBISPO

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
PLANTING PLAN

PROJECT NO.
24-13084.00

DRAWING
L201-02

PLOT DATE: 12/22/2025 2:03:52 PM

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Drawing: P:\224\224-0395\Site\productiondrawings\224395_la01-Inc2_dwg, 01/01 – BCF.CTB
Plot By: Fabian Diaz - 2025 - 2:03pm

ONSITE PLANT LEGEND:

TOTAL AREA OF MIXED PLANTING: 4,759 S.F.

SUNSET ZONE: 8

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
SMALL TREES							
	CHI LIN	CHILOPSIS LINEARIS DESERT WILLOW	24"BOX	VL	2	A/L203-02	DECIDUOUS, STANDARD FORM, FULL SUN MS: 15-30' H X 10-20' W
MEDIUM TREES							
	PIS KEI	PISTACIA CHINENSIS 'KEITH DAVEY' KEITH DAVEY CHINESE PISTACHE	24"BOX	L	1	A/L203-02	DECIDUOUS, STANDARD FORM, FULL SUN MS: 25-35' H X 25-35' W
LARGE TREES							
	GIN BIL	GINKGO BILOBA 'AUTUMN GOLD' MAIDENHAIR TREE	15 GAL	M	3	A/L203-02	DECIDUOUS, STANDARD FORM, FULL SUN MS: 35'-50' H X 35'-50' W
	ULM DRA	ULMUS PARVIFOLIA 'DRAKE' DRAKE LACEBARK ELM	24"BOX	M	6	A/L203-02	SEMI-EVERGREEN, STANDARD FORM MS: 40' H X 35-40' W

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	WATER USE	QTY	DETAIL	REMARKS
SHRUBS							
	BER RPN	BERBERIS AQUIFOLIUM REPENS CREEPING OREGON GRAPE	5 GAL	L	14	B/L203-02	EVERGREEN, COOL SUN TO SHADE, CA NATIVE MS: 1' H X 3' W
	CIS PUL	CISTUS X PULVERULENTUS 'SUNSET' SUNSET ROCKROSE	5 GAL	L	12	B/L203-02	EVERGREEN, FULL SUN TO PARTIAL SHADE MS: 2' H X 6-8' W
	LAN ALB	LANTANA MONTEVIDENSIS 'ALBA' WHITE TRAILING LANTANA	5 GAL	L	12	B/L203-02	EVERGREEN, FULL SUN MS: 1-2' H X 6-8' W
	RHA EVE	RHAMNUS CALIFORNICA `EVE CASE` CALIFORNIA COFFEEBERRY	5 GAL	L	7	B/L203-02	EVERGREEN, FULL SUN TO PART SHADE, CA NATIVE MS: 6-8' H X 6-8' W
	RIB SAN	RIBES SANGUINEUM RED FLOWERING CURRANT	5 GAL	L	9	B/L203-02	DECIDUOUS, PART SHADE TO SHADE, CA NATIVE MS: 6-12' H X 6-12' W
	ROS COL	ROSMARINUS OFFICINALIS 'COLLINGWOOD INGRAM' COLLINGWOOD INGRAM ROSEMARY	5 GAL	L	24	B/L203-02	EVERGREEN, FULL SUN MS: 2-3' H X 4' W
	TEU AZU	TEUCRIUM FRUTICANS `AZUREUM` AZURE BUSH GERMANDER	5 GAL	L	16	B/L203-02	FULL SUN MS: 3-4' H X 4-5' W
PERENNIALS							
	DIE IRI	DIETES IRIDIOIDES 'VARIEGATA' VARIEGATED FORTNIGHT LILY	1 GAL	L	39	B/L203-02	PERENNIAL EVERGREEN, FULL SUN MS: 2-3' H X 2-3' W
ORNAMENTAL GRASSES							
	CHO TEC	CHONDROPETALUM TECTORUM SMALL CAPE RUSH	1 GAL	L	64	B/L203-02	PERENNIAL FROM RHIZOMES, SUN TO LIGHT SHADE MS: 2-3` H X 3-4` W
	LEY TRI	LEYMUS TRITICOIDES `GREY DAWN` GREY CREEPING WILD RYE	1 GAL	L	11	B/L203-02	COOL-SEASON GRASS, SUN TO PART SHADE, CA NATIVE MS: 1-3' H X 3' W
GROUND COVER							
	COT BEA	COTONEASTER DAMMERI `CORAL BEAUTY` CORAL BEAUTY COTONEASTER	1 GAL	L	14	B/L203-02	EVERGREEN, FULL SUN MS: <1' H X 6' W

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	DETAIL	REMARKS
SHRUB AREAS						
	SITETRI	SITE TRIANGLE	N/A			40FT FROM PROPERTY LINE TO PROPERTY LINE, DIAGONAL ON THE CORNER

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
GROUND COVERS							
	MULCH	MULCH WALK-ON TYPE WOOD	N/A	N/A	39 SF	D/L203-02	MIN. 3" COMPRESSED DEPTH. SEE PLANTING NOTE #18. QUANTITY IS IN ADDITION TO THAT PROVIDED IN THE MIXED PLANTING AREA.
	RB	ROOT BARRIER UB24-2				E/L203-02	PER MANUFACTURE'S SPECIFICATIONS. 24 INCH DEEP ROOT BARRIER PANELS. INSTALL
	(A)	NO MULCH TO BE APPLIED IN VEGETATED SWALE OR RAIN GARDEN					

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

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FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
PLANTING LEGEND

PROJECT NO.
24-13084.00

DRAWING
L202-02

Drawing: P:\1224\1224-0395\Site\productiondrawings\1224395_ladt01-inc2.dwg Planting Legend — BCF CTB
Date: Fri, Dec 22, 2025 - 2:04pm

PLOT DATE: 12/22/2025 2:04:02 PM

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 IN 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 SIX (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 OR AS MODIFIED BY THE LANDSCAPE ARCHITECT BASED ON THE SOUL FERTILITY ANALYSIS.*
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.*

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.*

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.

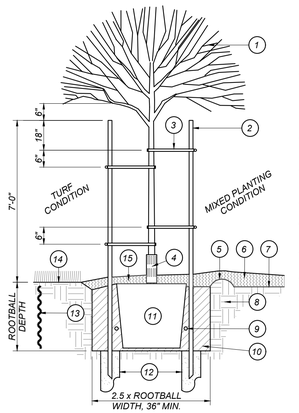
SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

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.



LEGEND:

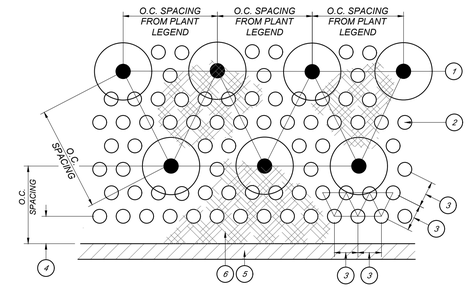
1. *TREE PER PLANTING PLAN.*
2. *2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.*
3. *FLEXIBLE VINYL TREE TIE, 4 / TREE (V.I.T. OR APPROVED EQUAL.)*
4. *TREE TRUNK PROTECTOR (GRAY) WHERE TREE 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 [E/L203-02].*
14. *ADJACENT TURFGRASS PLANTING WHERE OCCURS.*
15. *MULCH, MINIMUM 3" DEPTH. SEE GENERAL PLANTING NOTE 17.*

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.

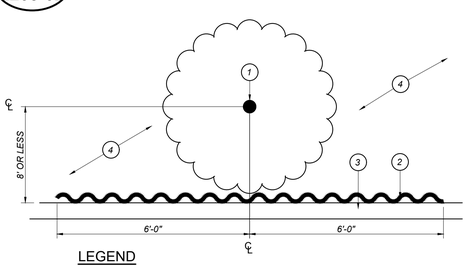
A / L203-02 — **DOUBLE STAKE TREE PLANTING** — *NOT TO SCALE*



LEGEND:

1. *CONTAINER SHRUB OR GROUND COVER IN TRIANGULATED ROWS. SEE SHRUB PLANTING PER DETAIL [B/L203-02].*
2. *GROUND COVER FLATS OR LINERS - TRIANGULATED ROWS.*
3. *SPACE PER PLANT LEGEND. OMIT PLANTS WHERE IN CONFLICT WITH SHRUBS OR TREE WATERING BASINS.*
4. *SPACING DISTANCE FROM PLANT LEGEND.*
5. *HARDSCAPE ELEMENT: CURB, WALK, ETC.*
6. *MULCH PER SPECIFICATIONS.*

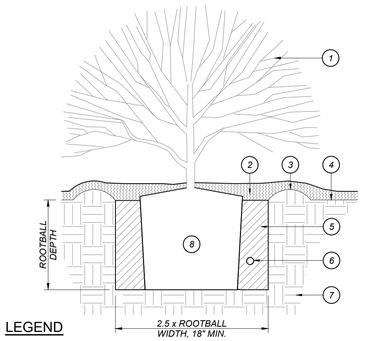
C / L203-02 — **SHRUB AND GROUND COVER SPACING** — *NOT TO SCALE*



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.*

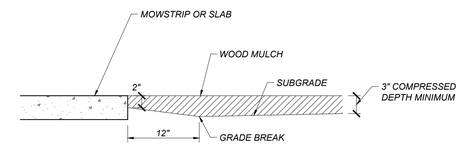
E / L203-02 — **ROOT CONTROL BARRIER** — *NOT TO SCALE*



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 / L203-02 — **SHRUB PLANTING** — *NOT TO SCALE*



D / L203-02 — **MULCH DETAIL** — *NOT TO SCALE*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

LICENSED LANDSCAPE ARCHITECT — Expires 7/31/27 — Renewal Date 08/29/2025 — STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
PLANTING DETAILS

PROJECT NO.
24-13084.00

DRAWING
L203-02

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

PLOT DATE: 12/22/2025 2:04:03 PM

P:\22412244-0395\Site\productiondrawings\224395_ladt01-Inc2.dwg

Drawing: P:\22412244-0395\Site\productiondrawings\224395_ladt01-Inc2.dwg Planting Details – RCT.CTB
Plot By: Ryan Tate Dec 22, 2025 - 2:04pm

\\tet-file1\Users\cesar.silva_TETR\Documents\13084-A-MCSD-260 K ST.IT WAREHOUSE_cesar.sil.rvt

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
L	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

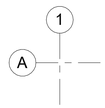
CODES AND ORGANIZATIONS

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



STATION LINE

DOOR SYMBOL

DOOR REFERENCE

WINDOW SYMBOL

WINDOW REFERENCE

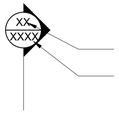
KEYNOTE SYMBOL

KEYNOTE REFERENCE, REFER TO KEYNOTE LIST ON SHEET

WORK POINT, CONTROL POINT OR DATUM POINT

WALL SYMBOL

WALL REFERENCE



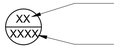
SECTION

LOCATION ON SHEET REFERENCED

SHEET NUMBER WHERE SECTION IS LOCATED

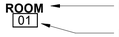
DETAIL

LOCATION ON SHEET REFERENCED



SHEET NUMBER WHERE DETAIL IS LOCATED

ROOM IDENTIFICATION



ROOM NAME

ROOM NUMBER

CEILING HEIGHT

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER NIKKEL C-35953 REGISTERED STATE OF CALIFORNIA

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

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE
LEGENDS AND ABBREVIATIONS

PROJECT NO.
24-13084.00

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A000-02

PLOT DATE: 12/19/2025 11:10:32 AM

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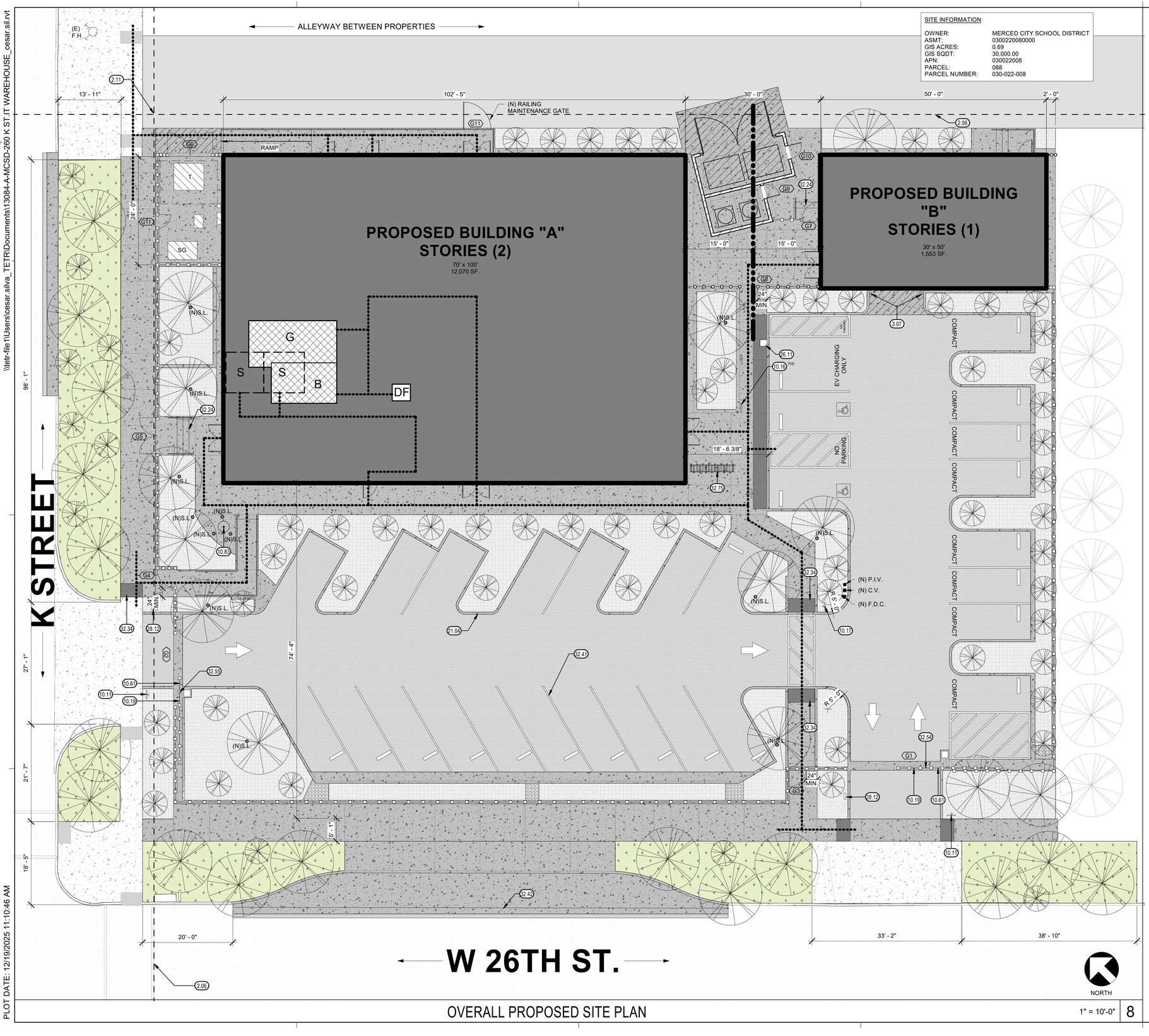

OVERALL PROPOSED SITE PLAN

1" = 10'-0"

8

PLOT DATE: 12/19/2025 11:10:46 AM

SITE INFORMATION

OWNER:	MERCED CITY SCHOOL DISTRICT
ASMT:	030022080000
GIS ACRES:	0.69
GIS SQDT:	30,000.00
APN:	030022008
PARCEL:	088
PARCEL NUMBER:	030-022-008

KEYNOTES (30.00)

2.06	EXISTING OVERHEAD UTILITY LINES TO REMAIN
2.11	EXISTING UTILITY POLE TO REMAIN
3.07	CONCRETE BOLLARDS, SEE CIVIL
10.11	PARKING LOT TOW AWAY SIGN, SEE DETAIL 6/A110-02
10.16	NEW ACCESSIBLE PARKING SIGNAGE
10.17	"DO NOT ENTER" SIGN
10.19	PROVIDE SIGNAGE MOUNTED TO GATE. SIGN TO READ "PARKING LOT IS NOT A PASS-THROUGH FOR FIRE TRUCK", SEE DETAIL 5/A110-02
10.61	SURFACE MOUNTED KNOX BOX EMERGENCY SERVICES KEY STORAGE. COORDINATE SIZE, LOCATION, AND MOUNTING WITH LOCAL FIRE AUTHORITY AND DISTRICT
10.83	FLAGPOLE, SEE DETAIL 5/A110-02
21.04	PAINT TOP AND FACE OF CURB RED WITH 4" HIGH LETTERING "NO PARKING - FIRE LANE" AT 30' ON CENTER OF FACE OF CURB
26.11	NEW EV CHARGING STATION
28.12	GATE CONTROL AND PEDESTAL
32.24	CONCRETE STEPS
32.34	DETECTABLE WARNING SURFACE
32.41	ANGLED PARKING PER MERCED CITY STANDARDS 18.38.070
32.42	BUS TURNOUT PER CITY STANDARD TC-12
32.54	22' - 0" MOTORIZED DECORATIVE METAL ROLLING GATE
32.55	18' - 0" MOTORIZED DECORATIVE METAL ROLLING GATE
32.75	BICYCLE RACK, SEE DETAIL 3/A110-02

LEGEND

- (N) PROPOSED BUILDING
- (E) AC PAVING TO REMAIN, AT ALLEY WAY
- (E) CONC. PAVING TO REMAIN
- (N) CONC. PAVING
- (N) HEAVY DUTY CONC. PAVING
- (N) AC PAVING
- (N) TURF
- (N) LANDSCAPING - MATERIAL TO BE DETERMINE
- (N) COBBLE IMPROVEMENTS
- (N) CHAINLINK FENCE
- (N) DECORATIVE METAL FENCE
- (E) TREE TO REMAIN
- (N) TREE
- (N) ACCESSIBLE BOYS TOILET ROOM (1ST FLOOR) (THIS DSA APPLICATION NUMBER)
- (N) ACCESSIBLE GIRLS TOILET ROOM (1ST FLOOR) (THIS DSA APPLICATION NUMBER)
- (N) ACCESSIBLE STAFF TOILET ROOM (2ND FLOOR) (THIS DSA APPLICATION NUMBER)
- (N) ACCESSIBLE DRINKING FOUNTAIN (THIS DSA APPLICATION NUMBER)
- (E) F.H. EXISTING FIRE HYDRANT
- ASSUMED PROPERTY LINE
- ACCESSIBLE ROUTE, 2% MAX SLOPE ALL DIRECTIONS UNLESS RAMP OR SLOPED WALK DESIGNATES OTHER COMPLIANCE PER (2022 C.B.C. SECTION 11B - 206)
- (N) CONCRETE MASONRY WALL (C.M.U.)

GATE SCHEDULE

MARK	CLEAR WIDTH	HEIGHT	MATERIAL	REMARKS
G-1	20' - 0"	6' - 0"	DECORATIVE/ ROLLING GATE	B
G-2	20' - 0"	6' - 0"	DECORATIVE/ ROLLING GATE	B
G-3	4' - 0"	6' - 0"	DECORATIVE	A,C
G-4	4' - 0"	6' - 0"	DECORATIVE	A,C
G-5	8' - 0"	6' - 0"	DECORATIVE	A
G-6	10' - 0"	6' - 0"	DECORATIVE	B
G-7	4' - 0"	6' - 0"	DECORATIVE	B
G-8	4' - 0"	6' - 0"	DECORATIVE	B
G-9	4' - 0"	6' - 0"	SOLID UTILITY YARD GATE	B
G-10	4' - 0"	6' - 0"	SOLID TRASH ENCLOSURE GATE	B
G-11	3' - 0"	6' - 0"	DECORATIVE	B
G-12	6' - 4"	3' - 0"	STEEL PIPE POST	B

REMARKS:
A. EGGRESS 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 4/A110-02 FOR ACCESSIBLE MANUVERING CLEARANCES

PARKING INFORMATION:

TOTAL NUMBER OF SPACES PROVIDED: 34

ACCESSIBLE PARKING SPACES
REQUIRED: 2: 26-50 (CBC TABLE 11B-208.2)
PROVIDED (TOTAL): 2
STANDARD ACCESSIBLE: 1
VAN ACCESSIBLE: 1
NOTE: THE NUMBER OF SPACES WITH EV CHARGING EQUIPMENT MAY BE DEDUCTED FROM THE TOTAL NUMBER OF SPACES FOR THE PURPOSE OF DETERMINING THE NUMBER OF ACCESSINBLE PARKING SPACES REQUIRED (CBC 11B-208.1)

EV CAPABLE SPACES
REQUIRED: 8: 26-50
2 OF 8 TO BE PROVIDED WITH CHARGING EQUIPMENT (CGBSC TABLE 5.106.5.6.1)
PROVIDED:
EV CAPABLE W/O EQUIP.:
EV WITH CHARGING EQUIP: 2

ACCESSIBLE EV CHARGING SPACES
(CBC TABLE 11B-228.3.2.1)
VAN ACCESSIBLE
REQUIRED: 1
PROVIDED: 1
STANDARD ACCESSIBLE
REQUIRED: 1
(NOTE: 1 STD ACCESSIBLE REQUIRED WHEN 5 OR MORE EV CHARGING STATIONS PROVIDED)
PROVIDED: 1
AMBULATORY
REQUIRED: 0
PROVIDED: 0

NOTE:

SHEET NOT REVIEWED FOR DSA ACCESS COMPLIANCE AS PART OF THIS DSA INCREMENT 1 APPLICATION. SHEET TO BE REVIEWED AS PART OF THE DSA INCREMENT 2 APPLICATION

IDENTIFICATION STAMP
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OVERALL PROPOSED SITE PLAN

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A100-02

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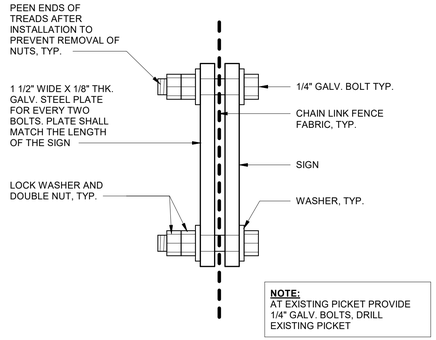
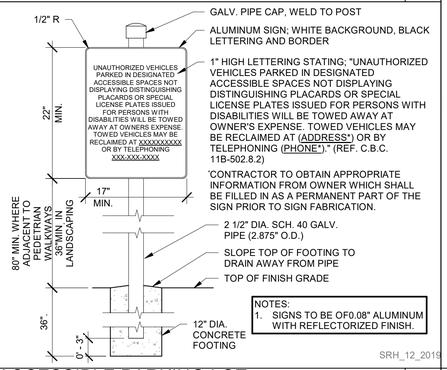
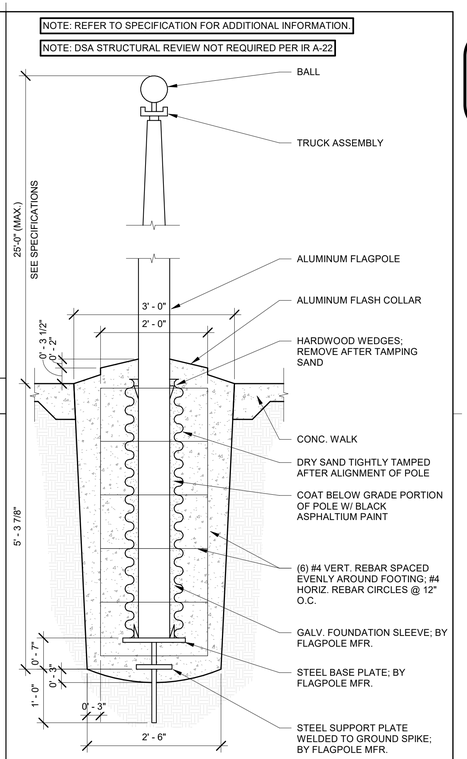


FENCE SIGN MOUNTING 3" = 1'-0" 5

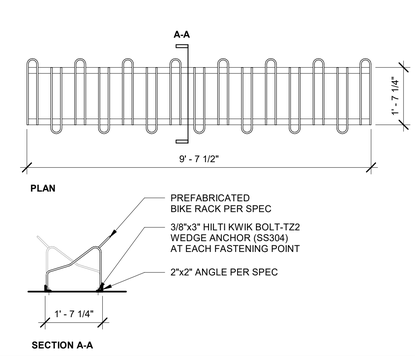


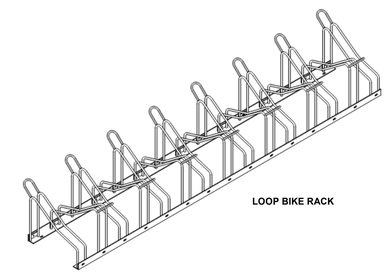
SRH_12_2019

ACCESSIBLE PARKING LOT ENTRANCE SIGN 1" = 1' - 0" 6



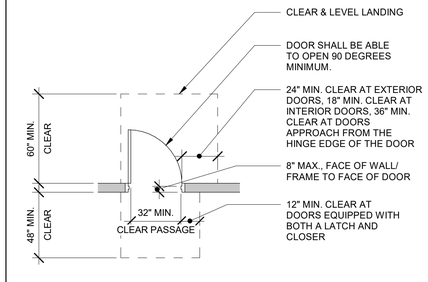
FLAGPOLE 3/4" = 1'-0" 2





NOTE:
1. SIZE: NUMBER OF BIKES/ SIZE OF RACK PER SPECIFICATIONS AND/ OR DWGS.
2. CONFIRM/VERIFY DIMENSIONS W/ MANUFACTURER.
3. TYPE OF MOUNTING PER SPECIFICATIONS (IN-GROUND MOUNT OR SURFACE MOUNT).

BIKE RACK 1/2" = 1'-0" 3



SRH_12_2019

ACCESSIBLE MANEUVERING CLEARANCE AT DOORS 1/4" = 1'-0" 4

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LICENSED ARCHITECT CHRISTOPHER NIKKEL C - 35953 REGISTERED PROFESSIONAL STATE OF CALIFORNIA

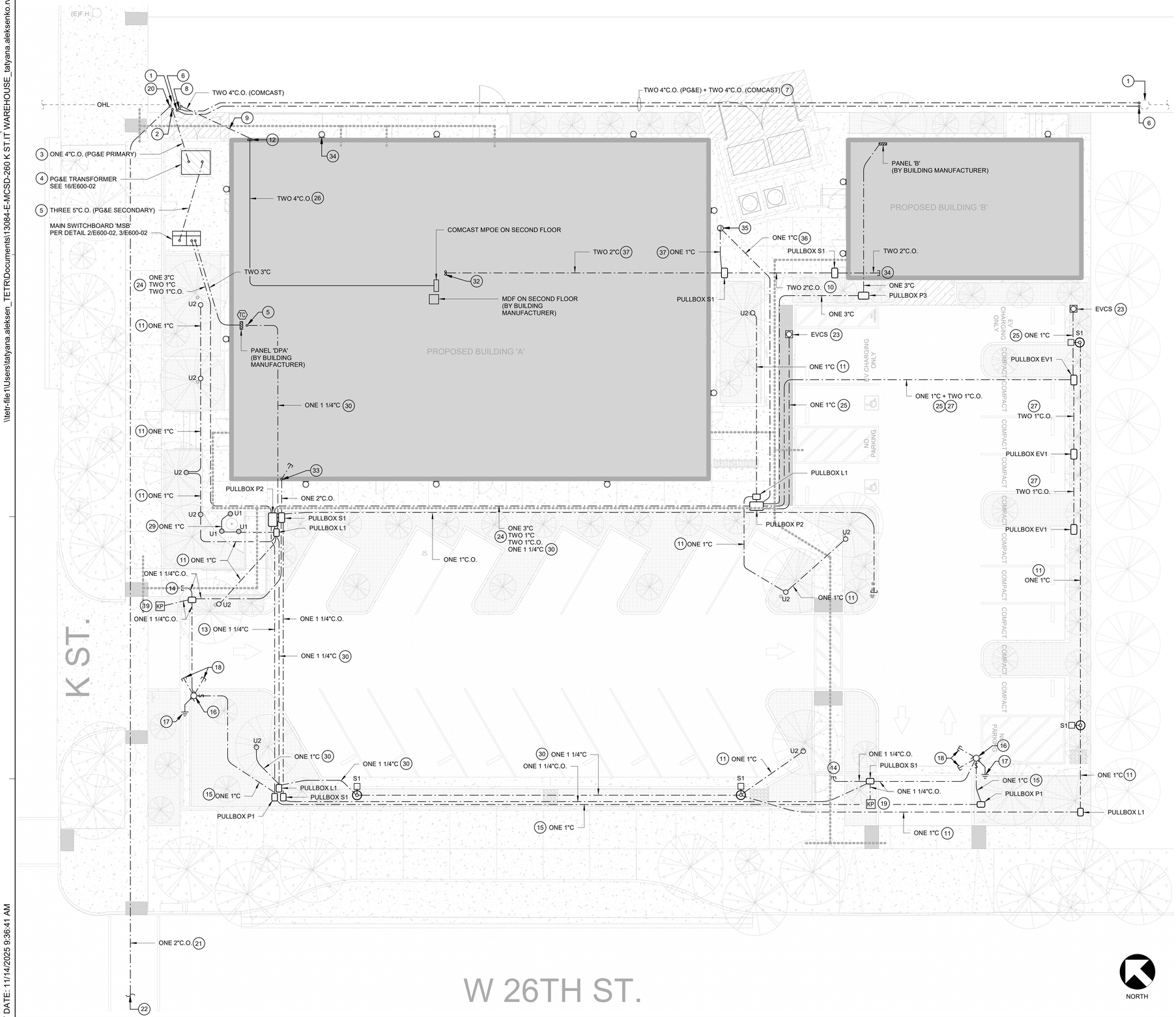
TETER, INC.
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE
SITE DETAILS

PROJECT NO.
24-13084.00

DRAWING
A110-02



ELECTRICAL SITE PLAN

1" = 10'-0"

1

KEYNOTES

1. (E) UTILITY COMPANY JOINT POLE.
2. PROVIDE (N) RISER FOR (N) ELECTRICAL SERVICE UP (E) POLE. INSTALL PER PG&E REQUIREMENTS.
3. ONE 4"C (PG&E PRIMARY). INSTALL PER PG&E REQUIREMENTS.
4. (N) PG&E TRANSFORMER. PROVIDE (N) TRANSFORMER PAD AND GROUNDING PER PG&E REQUIREMENTS.
5. THREE 5"C.O. (PG&E SECONDARY). INSTALL PER PG&E REQUIREMENTS.
6. PROVIDE (N) PG&E AND COMCAST RISERS UP (E) POLE TO ACCOMMODATE UNDERGROUNDING OF CONDUIT BETWEEN POLES.
7. PROVIDE TWO 4"C.O. (PG&E PRIMARY) AND TWO 4"C.O. (COMCAST) IN JOINT TRENCH.
8. PROVIDE (N) RISER FOR (N) COMCAST SERVICE UP (E) POLE. INSTALL PER COMCAST REQUIREMENTS.
9. UNDERGROUND COMCAST SERVICE CONDUIT TO BUILDING PER INCREMENT 2 DRAWINGS.
10. PROVIDE TWO 2"C FOR SIGNAL CONNECTIONS BETWEEN BUILDINGS.
11. ONE 1"C, 2#10 CU THWN, 1#10 CU GND (SITE LIGHTING).
12. PROVIDE TWO 4"C.O. RISERS CONCEALED IN BUILDING EXTERIOR WALL UP TO SECOND FLOOR ATTIC SPACE.
13. ONE 1 1/4"C, 4#10 CU THWN, 1#10 CU GND (MOTORIZED GATE BRANCH CIRCUITS).
14. PROVIDE ONE 1 1/4"C.O. TO STRIKE SIDE OF PEDESTRIAN GATE FOR ACCESS CONTROL WIRING.
15. ONE 1"C, 2#10 CU THWN, 1#10 CU GND (MOTORIZED GATE BRANCH CIRCUIT).
16. PROVIDE WEATHERPROOF MOTOR RATED AC SNAP SWITCH DISCONNECT. PROVIDE POWER CONNECTION FOR 120V, 1PH, ACCESS GATE MOTOR OPERATOR.
17. PROVIDE GROUND WELL AND GROUND ROD FOR MOTOR OPERATOR PER 15/E600-02. PROVIDE 1#6 CU GND FROM MOTOR OPERATOR TO GROUND ROD.
18. STUB TWO 1"C.O. FROM GATE MOTOR OPERATOR FOR EXIT LOOP DETECTOR, SHADOW LOOP DETECTOR, AND INTERRUPT LOOP DETECTOR. COORDINATE EXACT LOCATIONS WITH GATE OPERATOR MANUFACTURER DATA.
19. STUB CONDUIT ABOVE GRADE AT LOCATION OF GATE ACCESS KEYPAD.
20. PROVIDE (N) RISER UP (E) POLE FOR UNDERGROUNDED STREETLIGHT CONNECTION. INSTALL PER PG&E REQUIREMENTS.
21. PROVIDE ONE 2"C.O. UNDERGROUND FOR REROUTING OF (E) STREETLIGHT CONNECTION. INSTALL PER PG&E REQUIREMENTS.
22. PROVIDE BORING UNDER 26TH STREET FOR ROUTING OF (N) UNDERGROUND CONDUIT TO RECONNECT (E) STREETLIGHT AT SOUTH SIDE OF 26TH STREET. PROVIDE CONDUIT RISER UP (E) POLE TO (E) STREETLIGHT AT SOUTH SIDE OF 26TH STREET. CONTRACTOR SHALL OBTAIN A CITY OF MERCED ENCROACHMENT PERMIT FOR CONDUIT INSTALLATION UNDER STREET.
23. PROVIDE SINGLE-PORT LEVEL 2 ELECTRIC VEHICLE CHARGING STATION, CHARGEPOINT CP6000 OR EQUAL. INSTALL PER DETAIL 4/E601-02. PROVIDE 208V, 1PH, 40A POWER CONNECTION TO ELECTRIC VEHICLE CHARGING STATION.
24. ONE 1"C, 4#8 CU THWN, 1#10 CU GND (EVCS BRANCH CIRCUITS) + ONE 1"C, 2# 10 CU THWN, 1#10 CU GND (IRRIGATION CONTROLLER BRANCH CIRCUIT) + TWO 1"C.O. (FUTURE EVCS).
25. ONE 1"C, 2#8 CU THWN, 1#10 CU GND (EVCS BRANCH CIRCUIT).
26. PROVIDE TWO 4"C.O. (COMCAST SERVICE) IN SECOND FLOOR ATTIC SPACE. ROUTE TO (N) COMCAST MPOE LOCATION IN SECOND FLOOR CONTROL ROOM.
27. TWO 1"C.O. (FUTURE EVCS).
28. ONE 1"C.O. (FUTURE EVCS).
29. ONE 1"C, 2#10 CU THWN, 1#10 CU GND; TYP. BETWEEN FLAG UPLIGHTS. INSTALL UPLIGHTS PER 19/E600-02.
30. ONE 1 1/4"C, 4#10 CU THWN, 1#10 CU GND (SITE LIGHTING).
31. ROUTE CONDUIT TO EXTERIOR LIGHTING TIME CLOCK IN MODULAR BUILDING FIRST FLOOR ELECTRICAL ROOM. TIME CLOCK BY MODULAR MANUFACTURER, COORDINATE EXACT LOCATION IN FIELD. CONNECT POLE MOUNTED AREA LIGHTING FIXTURES AND UPLIGHTS TO SEPARATE RELAYS AT EXTERIOR LIGHTING TIME CLOCK.
32. ROUTE TWO 2"C.O. CONCEALED IN MODULAR BUILDING INTERIOR WALL UP TO SECOND FLOOR. STUB CONDUITS INTO ATTIC SPACE ABOVE TELECOMMUNICATION ROOM ON SECOND FLOOR.
33. ROUTE ONE 2"C.O. CONCEALED IN MODULAR BUILDING EXTERIOR WALL UP TO SECOND FLOOR ATTIC SPACE. STUB CONDUITS INTO SECOND FLOOR ATTIC SPACE TO FACILITATE CABLE ROUTING TO TELECOMMUNICATIONS ROOM ON SECOND FLOOR.
34. WALL-MOUNTED EXTERIOR LIGHTING FIXTURE BY MODULAR BUILDING MANUFACTURER TO PROVIDE ILLUMINATION ALONG THE PATH OF EGRESS TRAVEL, TYPICAL.
35. PROVIDE CONNECTION TO 120V, 1PH, IRRIGATION CONTROLLER.
36. ONE 1"C, 2#10 CU THWN, 1#10 CU GND (IRRIGATION CONTROLLER).
37. PROVIDE ONE OUTDOOR-RATED CATEGORY 6 DATA CABLE BACK TO MDF IN BUILDING.

GENERAL NOTES

A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

B. SITE CONDUITS OF TRADE SIZE 2" AND LARGER SHALL BE GROUPED AND INSTALLED PER DETAIL 11/E600-02. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINAL GRADE TO TOP OF CONDUIT.

C. PROVIDE PULLBOXES PER DETAIL 12/E600-02.

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.

IDENTIFICATION STAMP
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REGISTERED PROFESSIONAL ENGINEER
CIVIL
No. E19509
Exp. 6-30-27
STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
ELECTRICAL SITE PLAN - INCREMENT 2

PROJECT NO.
24-13084.00

DRAWING
E101-02

PLOT DATE: 11/14/2025 9:36:41 AM

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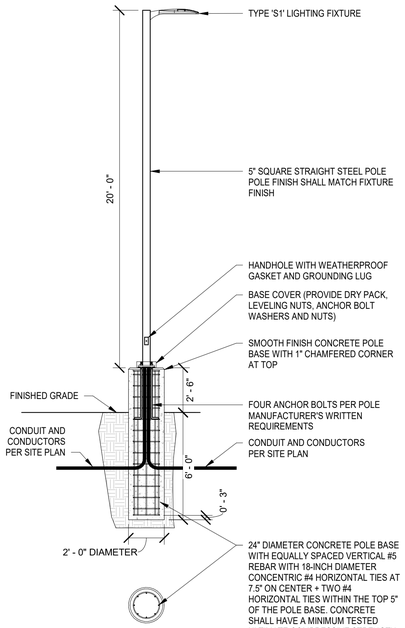
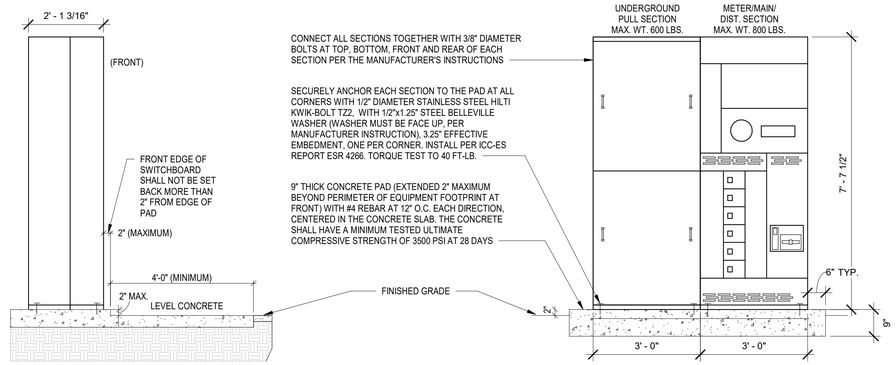


NOTE:
DSA STRUCTURAL REVIEW NOT REQUIRED PER IR A-22

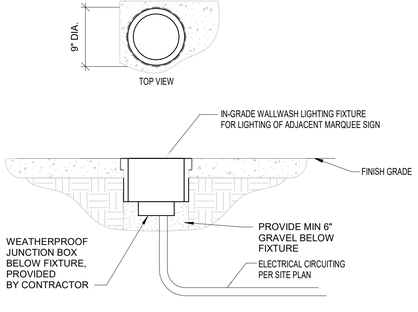
SINGLE HEAD POLE MT'D FIXTURE N.T.S. 18



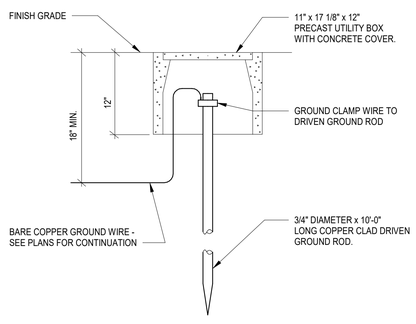
MAIN SWITCHBOARD 'MSB' ELEVATION N.T.S. 2

PROVIDE ALL OF THE FOLLOWING GROUNDING ELECTRODES WITHIN THE CONCRETE SERVICE ENTRANCE EQUIPMENT PAD:

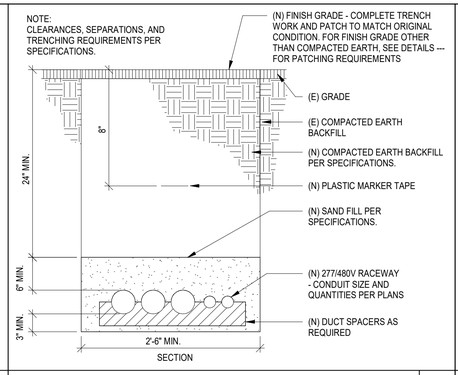
1. A CONCRETE-ENCASED ELECTRODE CONSISTING OF AT LEAST 20-FT OF BARE #3/0 COPPER CONDUCTOR AND BONDED TO THE SERVICE ENTRANCE EQUIPMENT GROUNDING BUS.
2. A 3/4"-DIAMETER x 10-FT LENGTH, COPPER-CLAD STEEL GROUNDING ROD.
3. BOND STRUCTURAL TO THE GROUNDING ROD
4. CONNECTION TO U.G. WATER PIPE



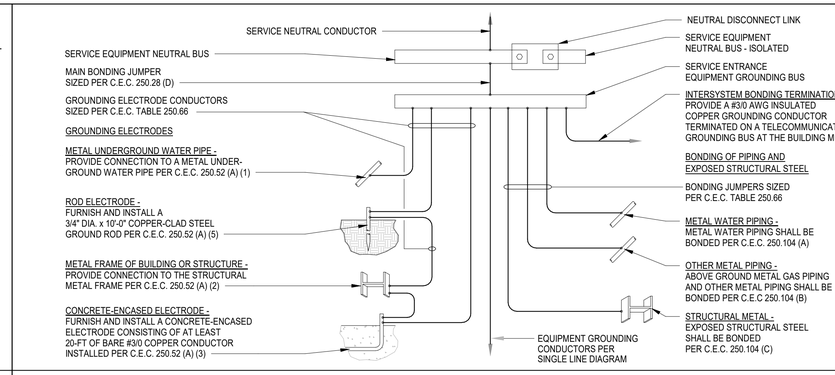
IN-GRADE FIXTURE MOUNTING N.T.S. 19



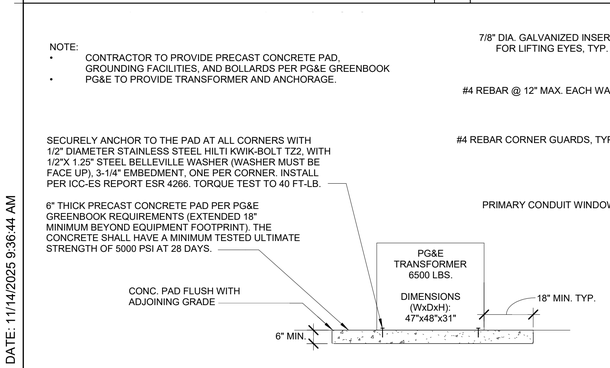
GROUND WELL N.T.S. 15



TYPICAL TRENCH SECTION N.T.S. 11



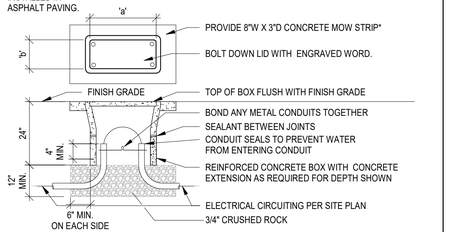
GROUNDING ELECTRODE SYSTEM AT MAIN SWITCHBOARD N.T.S. 3



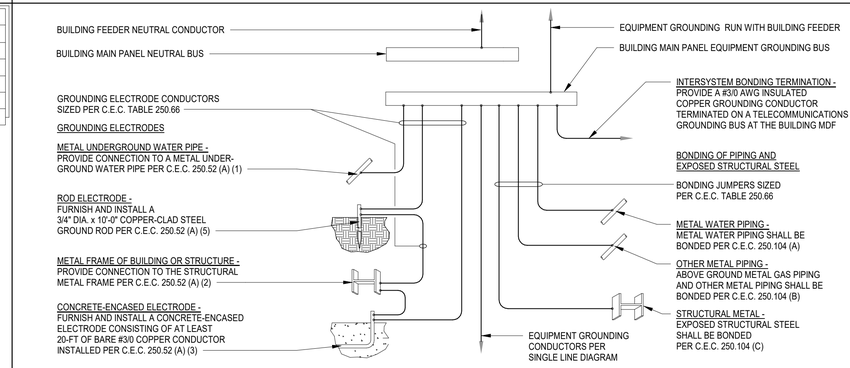
PG&E TRANSFORMER 16

*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	22"	12"	ELECTRICAL	CONCRETE
P2	36"	24"	ELECTRICAL	CONCRETE
P3	24"	13"	ELECTRICAL	CONCRETE
S1	22"	12"	SIGNAL	CONCRETE
L1	22"	12"	LIGHTING	CONCRETE
EV1	22"	12"	EVCS	CONCRETE



UNDERGROUND PULLBOX N.T.S. 12



REMOTE BUILDING GROUNDING ELECTRODE SYSTEM N.T.S. 4

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REGISTERED PROFESSIONAL ENGINEER ★ CIVIL ★ No. E19509 Exp. 6-30-27 ★ TATYANA BASTIAN ★ CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

PROJECT NO.
24-13084.00

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ELECTRICAL DETAILS - INCREMENT 2

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E600-02

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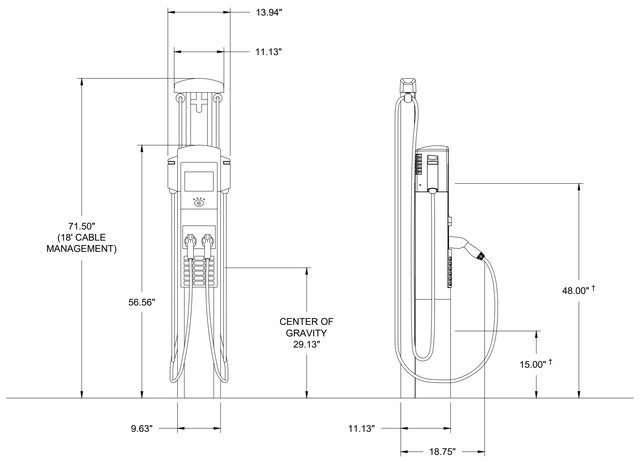
FRONT



SIDE

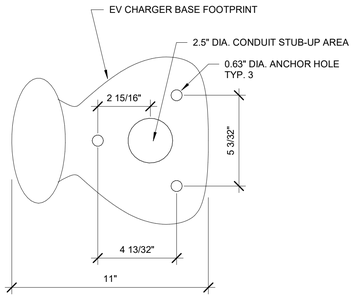
APPROXIMATE STATION WEIGHTS

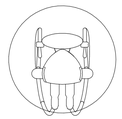
SINGLE PORT STATIONS: 160 lb (~73 kg)
DUAL PORT STATIONS: 170 lb (~77 kg)

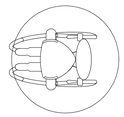
† OPERABLE PARTS MEET RECOMMENDATIONS FOR AN UNOBSTRUCTURED SIDE REACH AS OUTLINED IN "DESIGN RECOMMENDATIONS FOR ACCESSIBLE ELECTRIC VEHICLE CHARGING STATIONS" DATED JULY 17, 2023 BY THE U.S. ACCESS BOARD.

EVCS DIMENSIONAL INFO FROM MANUFACTURER CUT SHEET

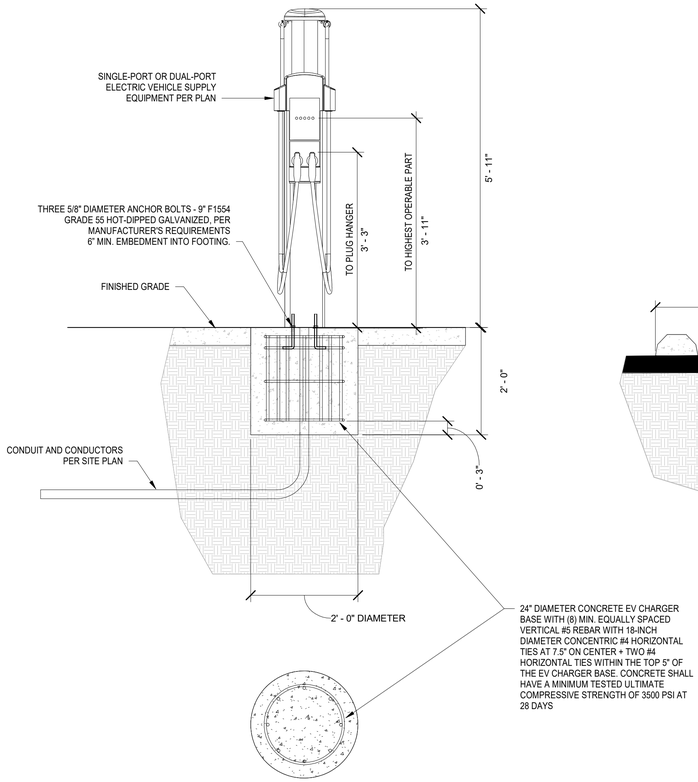
GROUNDING

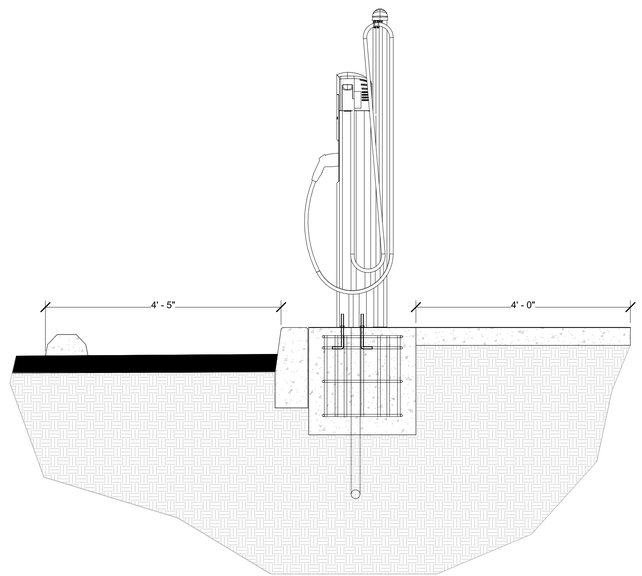






CHARGER STATION WEIGHT IS
150 LBS. MAX





ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) INSTALLATION

N.T.S. | 4

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2600 K STREET
MERCED, CA 95348

DRAWING TITLE
ELECTRICAL DETAILS - INCREMENT 2

PROJECT NO.
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DRAWING
E601-02

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PANEL: MSB

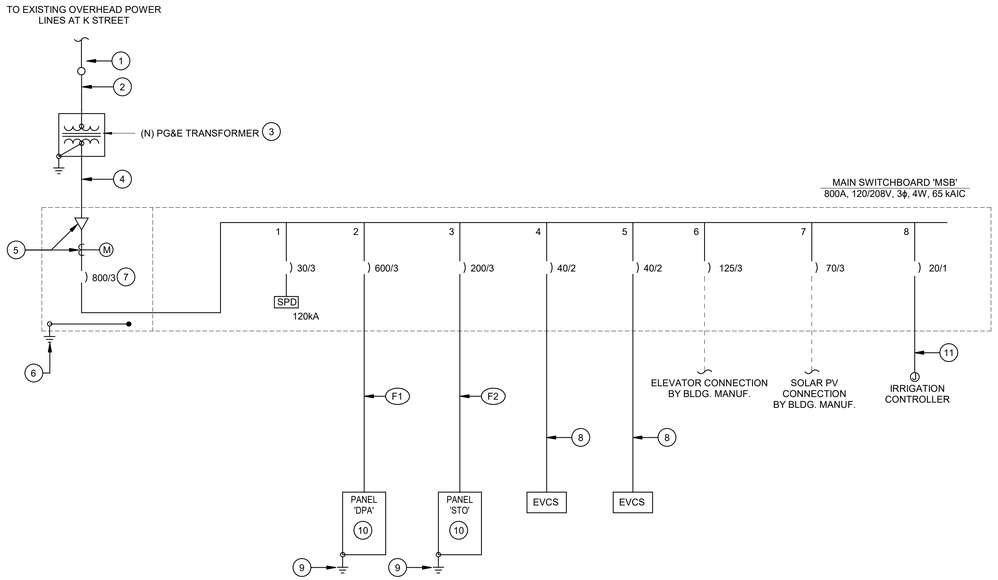
NEW MAIN SWITCHBOARD
QED2 STYLE OR EQUAL

BUS: 800 AMP BUS
VOLTAGE: 120/208V, 3 PH, 4 W
NEUTRAL: 100% RATED NEUTRAL

MAIN: 800A CB GFP
TRIP: ELECTRONIC LSIG
A.I.C.: 65 kAIC

LOCATION: BUILDING A NORTHWEST EXTERIOR
MOUNTING: PAD PER DETAIL 1/E600-02
ENCLOSURE: NEMA 3R

CIRCUIT		...			VOLT-AMPERES			
CKT NO.	PNL SPACE	AMP	POLE	SERVES	LOAD	A	B	C
1	1	30	3	SURGE PROTECTIVE DEVICE (SPD) 120kA	0	0		
					0		0	
					0			0
2	2	600	3	PANEL 'DPA'	55900	55900		
					54000		54000	
					50800			50800
3	3	200	3	PANEL 'STO'	2900	2900		
					1900		1900	
					1300			1300
4	4	40	2	EVCS	3328	3328		
					3328		3328	
5	5	40	2	EVCS	3328	3328		
					3328		3328	
6	6	125	3	ELEVATOR	11040	11040		
					11040		11040	
					11040			11040
7	7	70	3	SOLAR PV	7814	7814		
					7814		7814	
					7814			7814
8	8	20	1	IRRIGATION CONTROLLER	360	360		
					0		0	
					0			0
9	9		3		0	0		
					0		0	
					0			0
10	10		3		0	0		
					0		0	
					0			0
				TOTAL CONNECTED LOAD (VA) :		84670	81410	70954
				25% LCL/LML (VA) :		2760	2760	2760
				TOTAL CALCULATED LOAD (VA) :		87430	84170	73714
				TOTAL CALCULATED LOAD (AMPS) :		728.6	701.4	614.3



FEEDER SCHEDULE

FEEDER	ORIGIN	DESTINATION	CONDUIT	CONDUCTORS	CALCULATED VOLTAGE DROP	REMARKS
F1	MAIN SWBD 'MSB'	PANEL 'DPA'	TWO 3"C	4#350 KCMIL CU THWN, 1#1 CU GND, IN EACH CONDUIT	0.38%	PARALLEL FEEDER (TWO)
F2	MAIN SWBD 'MSB'	PANEL 'STO'	ONE 3"C	4#300 KCMIL CU THWN, 1#2 CU GND	2.74%	FEEDER UPSIZED FOR VOLTAGE DROP

KEYNOTES

1. PROVIDE (N) RISER FOR (N) ELECTRICAL SERVICE UP (E) POLE. INSTALL PER PG&E REQUIREMENTS.
2. TWO 4"C.O. (PG&E PRIMARY). INSTALL PER PG&E REQUIREMENTS.
3. (N) PG&E TRANSFORMER. PROVIDE (N) TRANSFORMER PAD AND GROUNDING PER PG&E REQUIREMENTS. SEE 16/E600-02.
4. THREE 5"C.O. (PG&E SECONDARY). INSTALL PER PG&E REQUIREMENTS.
5. LANDING LUGS AND METERING FACILITIES PER PG&E REQUIREMENTS.
6. PROVIDE GROUNDING ELECTRODE SYSTEM AT MAIN SWITCHBOARD PER DETAIL 3/E600-02.
7. GROUND FAULT PROTECTION FEATURE OF MAIN CIRCUIT BREAKER SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH NETA SPECIFICATIONS AND A REPORT SHALL BE SUBMITTED TO THE ENGINEER.
8. 2#8 CU THWN, 1#10 CU GND IN CONDUIT PER SITE PLAN.
9. PROVIDE GROUNDING ELECTRODE SYSTEM AT PANEL PER DETAIL 4/E600-02.
10. PANEL BY BUILDING MANUFACTURER.
11. ONE 1"C, 2#10 CU THWN, 1#10 CU GND.

GENERAL NOTES

A. ARC-FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AT ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS AND PANELBOARDS IN ACCORDANCE WITH CEC 110.16.

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).

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

Teter, Inc. expressly reserves its common law copyright and other property rights in these plans. This document, the ideas and designs incorporated herein, as an instrument of professional service, is not to be used in whole or in part, for any other project without prior written authorization.

MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER
CIVIL
No. E19509
Exp. 6-30-27
STATE OF CALIFORNIA

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

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET
MERCED, CA 95348

DRAWING TITLE
SINGLE LINE DIAGRAM - INCREMENT 2

PROJECT NO.
24-13084.00

DRAWING
E700-02

PLOT DATE: 11/14/2025 9:36:48 AM

\\tet-file1\Users\tatyana.aleksen_TETR\Documents\13084-E-MCSD-260 K ST_IT WAREHOUSE_tatyana.aleksenko.rvt

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(c)6, 180.1(a) and 180.2(b)4Bs for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: MCSD MARS ELOP FACILITY INCREMENT 1 **Report Page:** (Page 1 of 8)
Project Address: **Date Prepared:** 2025-05-22T19:29:27-04:00

A. GENERAL INFORMATION

01	Project Location (city)	MERCED			
02	Climate Zone	12	04	Total Illuminated Hardscape Area (ft²)	14277
03	Outdoor Lighting Zone per Table 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ):			

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Urban Clusters ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Rural Areas ☒ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project
• School or Classroom

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(c)6 or 141.0(b)2L / 180.2(b)4Bs for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(c)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[2]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ <10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.
[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E
Project Name: MCSD MARS ELOP FACILITY INCREMENT 1 **Report Page:** (Page 2 of 8)
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C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(c)6 or 141.0(b)2L / 180.2(b)4Bv										Compliance Results		
01		02		03		04		05	06	07	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(c)6i (See Table I)	+	Per Application 140.7(d)2 / 170.2(c)6ii (See Table J)	+	Sales Frontage 140.7(d)3 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(c)6ii (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(c)6ii (See Table M) OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	Total Allowed (Watts)	x Total Actual (Watts)	07 must be >= 08
671.82	+	—	+	—	+	—	+	— OR	—	671.82	≥ 408	COMPLIES
Shielding Compliance (See Table G for Details)												COMPLIES
Controls Compliance (See Table H for Details)												COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with unedtable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E
Project Name: MCSD MARS ELOP FACILITY INCREMENT 1 **Report Page:** (Page 3 of 8)
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE
For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(c)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires[1]	Luminaire Status[1]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output= 130.2(b) / 160.5(c)1*	Pass	Field Inspector Fail
S1	LED AREA LIGHT 25' POLE	☐ Linear	102	Mfr. Spec	4	New	☐	408	Provided	☐ ☐
U1	IN-GRADE UPLIGHT	☐ Linear	10	Mfr. Spec	17	New	☒	—	NA, < 6200 lumens	☐ ☐
						Total Design Watts:		406		

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

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G. SHIELDING REQUIREMENTS (BUG)
This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8

01	02	03	04	05	06	07	08	09	10	11	12	
		Backlight Rating[4]			Uplight Rating[4]			Glare Rating (Lumens)[2]				Field Inspector
Name or Item Tag	Complete Luminaire Description	Mounting Height[1]	Max Allowable Backlight Rating[4]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[4]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[4]	Glare Rating Per Design	Pass	Fail
S1	LED AREA LIGHT 25' POLE	Back hemisphere is 0.5 – 1 MH from prop line	B3	B2	Area Lighting	U0	U0	Front hemisphere is 1 - 2 MH from prop line	G1	G1	☐	☐

FOOTNOTES: Mounting Height is labeled MH in this table.
[1] Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)
[2] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

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CERTIFICATE OF COMPLIANCE NRCC-LTO-E
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H. OUTDOOR LIGHTING CONTROLS
This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut Off 130.2(c)1 / 160.5(c)	Auto Schedule 130.2(c)3 / 160.5(c)	Motion Sensor 130.2(c)5 / 160.5(c)	Field Inspector	
				Pass	Fail
PARKING LOT: "S1"	Astronomical Timer	Provided	Provided	☐	☐
PARKING LOT: "U1"	Astronomical Timer	Provided	N/A: >=24 ft	☐	☐

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[1] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[2] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from it and iii.

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CERTIFICATE OF COMPLIANCE NRCC-LTO-E
Project Name: MCSD MARS ELOP FACILITY INCREMENT 1 **Report Page:** (Page 6 of 8)
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I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(c))
This table includes areas using allowance calculations per 140.7 / 170.2(c). General Hardscape Allowance is per Table 140.7-A/Table 170.2-B while "Use it or lose it" Allowances are per Table 140.7-B/Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01					
	"Use it or lose it" Allowance (select all that apply)					(select all that apply)
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M		

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)		Linear Wattage Allowance (LWA)				Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	
PARKING LOT	14277	0.021	299.82	610	0.2	122	421.82
Initial Wattage Allowance for Entire Site (Watts)							250
Instances of Initial Wattage Allowance (LZ-0 only)							
Total General Hardscape Allowance (Watts):							671.82

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-LTO-E
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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title	
NRCI-LTO-E - Must be submitted for all buildings	

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	PARKING LOT: "S1", PARKING LOT: "U1"

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-E
Project Name: MCSD MARS ELOP FACILITY INCREMENT 1 **Report Page:** (Page 8 of 8)
Project Address: **Date Prepared:** 2025-05-22T19:29:27-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Evan Bastian	Documentation Author Signature:
Company: TETER, Inc.	Signature Date: 5/22/2025
Address: 7535 N. Palm Ave #201	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Fresno, CA 93711	Phone: 559-437-0697

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. I am responsible for the building design or system design identified on this Certificate of Compliance and for the preparation of the drawings and specifications, or portions of the drawings and specifications, that are subject 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 provided to the building owner at occupancy.

Responsible Designer Name: Evan Bastian	Responsible Designer Signature:
Company: TETER, Inc.	Date Signed: 5/22/2025
Address: 7535 N. Palm Ave #201	License: E 19509
City/State/Zip: Fresno, CA 93711	Phone: 559-437-0697

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.

C.E.C. TITLE 24 COMPLIANCE

THE LIGHTING AND LIGHTING CONTROL SYSTEMS DESIGN DEPICTED HEREIN IS IN COMPLIANCE WITH REQUIREMENTS OF THE CURRENT CALIFORNIA ENERGY COMMISSION EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS.

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, MOVEABLE 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 FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 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., 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), AND ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECFIC NOTES AND DETAILS

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAi (OSHPD) PREAPPROVAL (OPM#)_____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

GENERAL NOTES N.T.S. 11

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
E.P.	DENOTES EXPLOSION PROOF CONSTRUCTION	$_a	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N. / LOWER CASE SUBSCRIPT INDICATES CONTROLLED SWITCHLEG OF CIRCUIT
D.T.	DENOTES DUST TIGHT CONSTRUCTION	$_2	TWO POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
O.C.	DENOTES SPACING DIMENSION ON CENTER LINE OF DEVICE	$_3	THREE WAY AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
R.T.	DENOTES RAIN TIGHT CONSTRUCTION	$_4	FOUR WAY AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
U.G.	DENOTES UNDERGROUND INSTALLATION	$_M	HORSEPOWER RATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
V.P.	DENOTES VAPOR TIGHT CONSTRUCTION	$_P	SINGLE POLE AC SNAP SWITCH WITH PILOT LAMP @ +48" TO TOP OF BOX U.O.N.
W.P.	DENOTES WEATHERPROOF CONSTRUCTION	$_T	DIGITAL TIMER SWITCH, FLUSH MOUNTED @ +48" TO TOP OF BOX U.O.N.
W.T.	DENOTES WATER TIGHT CONSTRUCTION	$_A	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
A.F.F.	DENOTES ABOVE FINISHED FLOOR	$_K	KEY OPERATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
A.F.G.	DENOTES ABOVE FINISHED GRADE	$_CS	SYSTEM CONTROL SWITCH PER PLANS, @ 48" TO TOP OF BOX U.O.N.
F.B.O.	DENOTES FURNISHED BY OTHERS	$	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +48" TO TOP OF BOX, U.O.N.
U.O.N.	DENOTES UNLESS OTHERWISE NOTED	(M)	OCCUPANCY SENSOR - CEILING MOUNTED
(E)	DENOTES EXISTING TO REMAIN, NO WORK U.O.N.	(M)_W	OCCUPANCY SENSOR - WALL MOUNTED @ +90" TO TOP OF BOX, U.O.N.
(N)	DENOTES NEW	(P)	LIGHTING CONTROL SYSTEM DIMMING/POWER PACK MOUNTED IN ATTIC
(1)	ELECTRICAL KEYNOTES: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET	(RP)	LIGHTING CONTROL SYSTEM PLUG LOAD RELAY PACK MOUNTED IN ATTIC
A-3	CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, - 3/4"C. MINIMUM, U.O.N.	(C1)	LIGHTING CONTROL SYSTEM 2-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.
(1)	CIRCUIT FEEDER: DENOTES FEEDER 'F1' PER SYSTEM FEEDER SCHEDULE	(C4)	LIGHTING CONTROL SYSTEM 4-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.
———	CONDUIT IN ATTIC/WALL: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	(C1)_L	LIGHTING CONTROL SYSTEM DIMMING WALL SWITCH WITH LOCKING COVER @ +48" TO TOP OF BOX, U.O.N.
—·—	CONDUIT IN FLOOR/U.G.: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	(DS)	LIGHTING CONTROL SYSTEM DAYLIGHT SENSOR - CEILING MOUNTED
– – – –	DENOTES EXISTING CONDUIT RUN TO REMAIN	(nB)	LIGHTING CONTROL SYSTEM NETWORK BRIDGE
—]	CONDUIT RUN - STUBBED, CAPPED AND LABELED.	(nG)	LIGHTING CONTROL SYSTEM NETWORK GATEWAY
—//—	CONDUIT RUN: DENOTES 3/4"C - 3 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(AD)	LIGHTING CONTROL SYSTEM AUTOMATED DEMAND RESPONSE MODULE
—//—	CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(TC)	LIGHTING CONTROL SYSTEM TIME CLOCK
—//—	CONDUIT RUN: DENOTES 3/4"C - 5 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(PC)	PHOTOCELL CONTROL MOUNTED ON ROOF
—//—	CONDUIT RUN: DENOTES 1"C - 6 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.		
▽ ◫	SEPARATE POWER AND DATA FLOOR BOXES	(T)	LOW VOLTAGE CONTROL TRANSFORMER
▽ ◫	FLUSH FLOOR BOX WITH DEVICE(S) INSTALLED PER PLANS, U.O.N.		
⊖	TAMPER-RESISTANT SINGLE RECEPTACLE IN WALL @ +18", U.O.N.		ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL
⊖	TAMPER-RESISTANT DUPLEX RECEPTACLE IN WALL @ +18", U.O.N.		ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL
⊖	TAMPER-RESISTANT DUPLEX GFI RECEPTACLE, IN WALL @ 18", U.O.N.		TERMINAL CABINET PER PLANS, FLUSH MOUNTED IN WALL
⊖	TAMPER-RESISTANT SWITCHED GFCI RECEPTACLE IN WALL @ +18" A.F.F. U.O.N. (OCC. SENSOR OR WALL SWITCH CONTOLLED)		TERMINAL CABINET PER PLANS, SURFACE MOUNTED ON WALL
⊖_WP	TAMPER-RESISTANT WEATHER RESISTANT (W/R) DUPLEX GFCI RECEPTACLE W/ W.P. COVER @+18", U.O.N.		CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL
⊕	TAMPER-RESISTANT DUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +18", U.O.N.		CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL
⊕	TAMPER-RESISTANT QUADRUPLEX RECEPTACLE IN WALL @ +18", U.O.N.		LIGHTING CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL
⊜	SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ 18" U.O.N.		LIGHTING CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL
⊖	DUPLEX RECEPTACLE FLUSH IN CEILING		FIRE ALARM PANEL PER PLANS, FLUSH MOUNTED IN WALL
⊕	TAMPER-RESISTANT QUADRUPLEX RECEPTACLE IN WALL @ +18" A.F.F., U.O.N. ONE UNSWITCHED RECEPTACLE AND ONE SWITCHED (OCC. SENSOR CONTROLLED) RECEPTACLE		FIRE ALARM PANEL PER PLANS, SURFACE MOUNTED ON WALL
ⓙ	JUNCTION BOX		
	JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT	KP	ACCESS CONTROL SYSTEM KEYPAD
	NON-FUSIBLE DISCONNECT SWITCH		
	FUSIBLE DISCONNECT SWITCH		RECESSED LED LIGHTING FIXTURE
	FUSIBLE DISCONNECT SWITCH WITH INTEGRAL MAGNETIC STARTER		RECESSED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
	ELECTRIC MOTOR		SURFACE MOUNTED LED LIGHTING FIXTURE
	EXHAUST FAN OR FRACTIONAL HORSEPOWER MOTOR		SURFACE MOUNTED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
	SURFACE MOUNTED RACEWAY, MOUN

MARS/ELOP FACILITY MCSD - 26TH ST. INCREMENT 02

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

DEFERRED APPROVAL SUBMITTAL

NONE

SCOPE OF WORK DESCRIPTION

1. TWO-STORY MARS/ELOP FACILITY WITH MOMENT FRAME STRUCTURAL SYSTEM AND LIGHT GAUGE STEEL FRAMED WALLS.
2. SINGLE-STORY LIGHT GAUGE STEEL STORAGE BUILDING.

BUILDING DATA

MAIN BUILDING:

OCCUPANCY TYPE: A3-COMMUNITY HALL, E-EDUCATION, B-CIVIC ADMIN., S1 STORAGE

CONSTRUCTION TYPE: II-B

AUTOMATIC SPRINKLERS THROUGHOUT: YES

ALLOWABLE AREA AND HEIGHT (C.B.C. 2022 TABLES 504.3, 504.4, 506.2 AND SECTION 506.3):
NUMBER OF STORIES: 2 FOR NON-SPRINKLERED
BUILDING HEIGHT: 55' FOR NON-SPRINKLERED
AREA PER FLOOR: 28,500 S.F. FOR SPRINKLERED MULTI STORY (W/O HEIGHT INCREASE)

NON-SEPARATED OCCUPANCY: A3 (THE MOST STRINGENT) TO ELIMINATE THE OTHERWISE FIRE SEPARATION REQUIREMENT BETWEEN B,S-1 AND A,E OCCUPANCIES PER TABLE 508.4

RISK CATEGORY: III

ACTUAL AREA, STORIES, AND HEIGHT: REFER TO BUILDING AREA TABLE

CALIFORNIA CLIMATE ZONE: 12

STORAGE BUILDING:

OCCUPANCY TYPE: S1 STORAGE

CONSTRUCTION TYPE: V-B

AUTOMATIC SPRINKLERS THROUGHOUT: NO

ALLOWABLE AREA AND HEIGHT (C.B.C. 2022 TABLES 504.3, 504.4, 506.2 AND SECTION 506.3):
NUMBER OF STORIES: 1 FOR NON-SPRINKLERED
BUILDING HEIGHT: 40' FOR NON-SPRINKLERED
AREA FER FLOOR: 9,000 S.F. FOR NON-SPRINKLERED

NON-SEPARATED OCCUPANCY: N/A

RISK CATEGORY: III

ACTUAL AREA, STORIES, AND HEIGHT: REFER TO BUILDING AREA TABLE

CALIFORNIA CLIMATE ZONE: 12

BUILDING AREA TABLE

BUILDING	LEVEL	AREA	BLDG HEIGHT
MAIN BLDG.	FIRST LEVEL	7913 SF	14'-0"
MAIN BLDG.	SECOND LEVEL	3862 SF	22'-6"
BUILDING TOTAL	2 STORIES	11775 SF	36'-6"

BUILDING	LEVEL	AREA	BLDG HEIGHT
STORAGE	FIRST LEVEL	1500 SF	18'-6"
BUILDING TOTAL	1 STORY	1500 SF	18'-6"

GENERAL NOTES

1. ITEMS OF A CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL OR ELECTRICAL NATURE MAY NOT APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE APPROPRIATE DRAWINGS FOR THESE ITEMS.
2. DIVISION OF THE STATE ARCHITECT (DSA) APPROVAL OF THIS APPLICATION DOES NOT INCLUDE FUTURE OR N.I.C. ITEMS.
3. ALL DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND THE APPROPRIATE CONSULTING ENGINEER FOR REVIEW & APPROVAL PRIOR TO SUBMITTING TO DSA FOR CHECKING & APPROVAL.
4. THE FIRE SUPPRESSION SYSTEM, I.E. AUTOMATIC SPRINKLERS, HOOD-DUCT SYSTEM, WET STANDPIPES, AND HYDRANTS SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE FIRE & LIFE SAFETY SECTION AT DSA
5. THE FIRE PROTECTION SIGNALING SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS, INCLUDING FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN SUBMITTED AND APPROVED BY THE STATE FIRE MARSHAL AT DSA.
6. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS & CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAW.
7. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN, OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE, OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE AND/OR FAILURE TO INSPECT THE CONTRACT DOCUMENTS.
8. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF THE NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS & BY THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL EXISTING UTILITIES,
9. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
10. ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE OR REPLACED WITH NEW MATERIALS FINISHED TO MATCH EXISTING.
11. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISRUPTION OF STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF POWER, TELEPHONE, OR HAVC SYSTEMS MUST BE COORDINATED AND APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO ANY WORK COMMENCING
12. COMPLIANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION) AND CBC CHAPTER 33 (SAFEGUARDS DURING CONSTRUCTION) WILL BE ENFORCED.
13. WORK INDICATED AS 'OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) SHALL MEET ALL APPLICABLE CODES AND REGULATORY REQUIREMENTS PRIOR TO FINAL APPROVAL AND OCCUPANCY OF THIS PROJECT.

ADMINISTRATIVE REQUIREMENTS

1. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTION FOR THE PROJECT.
2. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION FOR THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR.)
3. A DSA INSPECTOR WITH CLASS 1 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
4. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DIRECTIVE (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
5. ALL TEST AND INSPECTIONS SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND C.B.C, 1705.
6. ALL WORK SHALL CONFORM TO TITLE 24, 2022 CALIFORNIA CODE OF REGULATIONS (CCR).
7. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
8. THE SCOPE OF WORK - CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
9. ACCEPTANCE TESTS SHALL 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.

SUBSTITUTIONS AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY AND ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATION OR USE.

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	AG102-02	CODE ANALYSIS - STORAGE BUILDING
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	A201-02	REFLECTED CEILING PLANS - MAIN BUILDING
	A202-02	ROOF PLAN - MAIN BUILDING
	A210-02	FLOOR PLAN - STORAGE BUILDING
	A300-02	EXTERIOR ELEVATIONS - MAIN BUILDING
	A301-02	BUILDING SECTIONS - MAIN BUILDING
	A310-02	EXTERIOR ELEVATIONS - STORAGE BUILDING
	A400-02	WALL SECTIONS - MAIN BUILDING
	A401-02	WALL SECTIONS - MAIN BUILDING
	A402-02	ENLARGED STAIR PLANS & SECTIONS
	A403-02	ELEVATOR PLAN AND SECTION
	A410-02	WALL SECTIONS - STORAGE BUILDING
	A500-02	ENLARGED RESTROOMS PLANS AND ELEVATIONS
	A501-02	INTERIOR ELEVATIONS - PERFORMANCE SPACE
	A502-02	INTERIOR ELEVATIONS - PERFORMANCE SPACE
	A503-02	INTERIOR ELEVATIONS
	A504-02	INTERIOR ELEVATIONS - OFFICES
	A505-02	INTERIOR ELEVATIONS - OFFICES
	A506-02	INTERIOR ELEVATIONS
	A507-02	INTERIOR ELEVATIONS
	A600-02	WALL TYPES
	A601-02	WALL TYPES
	A700-02	DOOR AND DOOR HARDWARE SCHEDULE
	A701-02	WINDOW/STOREFRONT SCHEDULE AND FINISH SCHEDULE
	A703-02	SIGNAGE DETAILS
	A800-02	EXTERIOR DETAILS
	A801-02	EXTERIOR DETAILS
	A802-02	EXTERIOR DETAILS
	A803-02	EXTERIOR DETAILS
	A804-02	EXTERIOR DETAILS
	A805-02	EXTERIOR DETAILS
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	A902-02	INTERIOR DETAILS
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*	CW2.00A-02	BUILDING ELEVATIONS
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*	CW5.06-02	SECTION DETAILS
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*	EV1.1-02	PLAN VIEWS - MODULAR MACHINE ROOM
*	EV1.2-02	MACHINE ROOM CONFIGURATIONS WITH HOISTWAY
*	EV1.3-02	ARCHITECTURAL ELEVATIONS
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*	EV2.1-02	FOUNDATION DETAILS
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*	EV2.5-02	MODULAR MACHINE ROOM STRUCTURAL
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*	S006-02	TYPICAL METAL DECK DETAILS
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*	M505-02	TITLE 24
*	M506-02	TITLE 24
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*	P404-02	DETAILS

X	SHEET NUMBER	SHEET TITLE
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*	FP101-02	SITE PLAN - FIRE PROTECTION
*	FP201-02	PIPING PLAN - FIRE PROTECTION
*	FP301-02	CEILING PLAN - FIRE PROTECTION
*	FP401-02	SECTIONS - FIRE PROTECTION
*	FP601-02	DETAILS - FIRE PROTECTION
*	FP602-02	SEISMIC BRACING CALCULATIONS - FIRE PROTECTION
	PHOTOVOLTAIC SYSTEM (7 SHEETS)	
*	PV001-02	GENERAL NOTES, SYMBOLS AND SHEET INDEX
*	PV201-02	PV ROOF PLAN
*	PV301-02	PV DETAILS
*	PV302-02	PV DETAILS
*	PV401-02	SINGLE LINE DIAGRAM
*	PV501-02	TITLE 24
*	PV601-02	PV AND BATTERY SPECS

CODES AND STANDARDS

THE DESIGN OF THIS PROJECT CONFORMS TO THE REQUIREMENTS OF THE FOLLOWING CODES, WITH THE LATEST ADOPTED AMENDMENTS.

LIST OF APPLICABLE CODES:

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCRTITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

2022 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)
2019 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)
2021 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2021 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS
2019 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION
2019 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)
2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)
2019 NFPA 80, FIRE DOORS AND OTHER OPENING PROTECTIVES
2018 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)
2005 (R2010) UL 300, FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT
2003 UL 464, AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES
1999 UL 521, HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
2002 (R2010) UL 1971, SIGNALING DEVICES FOR THE HEARING IMPAIRED
2017 ICC 300, BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

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

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STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND / OR CONSULTANTS.

(APPLICATION NO. 02-123377 FILE NO. 24-35)

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET MARKED WITH ASTERISK (*)
☐ THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS.

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

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

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

I CERTIFY THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET.
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SIGNATURE DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.
PRINT NAME
LICENSE NUMBER EXPIRATION DATE

☒ IS / ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND
☒ HAS / HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

SIGNATURE 12/22/2025 DATE
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PRINT NAME
C-33044 03/31/2027
LICENSE NUMBER EXPIRATION DATE

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CONSULTANT:

CONSULTANT'S SEAL:

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
COVER PAGE

SHEET NUMBER:
AG000-02

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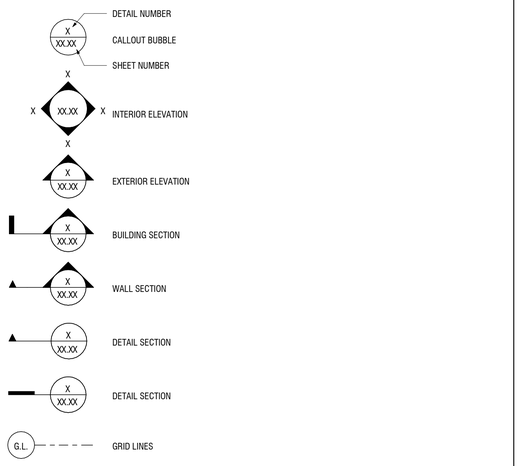
ABBREVIATIONS

A	
AB	ANCHOR BOLT
AC	ACOUSTICAL CEILING
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
ACCB	ACCESSIBLE BENCH
ACST	ACOUSTIC
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
AD	AREA DRAIN
ADDN	ADDITION OR ADDITIONAL
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AV	AVERAGE
AWP	ACOUSTICAL WALL PANEL
B	
BCMU	BURNISHED CONCRETE MASONRY UNIT
BD	BOARD
BET	BETWEEN
BFP	BACKFLOW PREVENTER
BFR	BELOW FLOOR
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BM	BENCH MARK
BOF	BOTTOM OF FOOTING
BOTT	BOTTOM
BRKT	BRACKET
BSMT	BASEMENT
BUR	BUILT UP ROOFING
C	
CBD	CHALKBOARD
CBC	CALIFORNIA BUILDING CODE
CD	CONDENSATE DRAIN
CER	CERAMIC
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CM	CEILING MOUNTED
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITE
COMPR	COMPRESSIBLE
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR OR CONTRACT
CORR	CORRIDOR
CP	COVER PLATE
CPT	CARPET
CR	CORROSION RESISTANT
CS	COUNTERSINK
CSK	COUNTERSUNK
CSTJ	CONSTRUCTION JOINT
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER
CY	CUBIC YARD
D	
D	DEPTH
DBL	DOUBLE
d	PENNY (AS NAIL 10D)
DEG	DEGREE
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DN	DOWN
DN	DOWNSPOUT NOZZLE
DO OR "	DITTO
DPFG	DAMPPROOFING
DR	DOOR
DR	DRAIN
DS	DOWNSPOUT
DSA	DEPARTMENT OF STATE ARCHITECT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	
E	EAST
EA	EACH
EB	EXPANSION BOLT
EE	EACH END
EEW	EMERGENCY EYEWASH
EEWS	EMERGENCY EYEWASH/SHOWER
EF	EACH FACE
EF	EXHAUST FAN
EH	ELECTRICAL HEATER
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAS	ELASTOMERIC
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
ERF	EPOXY RESIN FLOORING
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ES	EXTRA STRONG
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EXT	EXTERIOR
F	
F	FIRELINE
FA	FIRE ALARM
FAB	FABRICATED
FB	FACE BRICK
FC	FOOT CANDLE
FCMU	FLUTED CONCRETE MASONRY UNIT
FCO	FLOOR CLEAN OUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH
FIX	FIXTURE
FL	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLM	FULL LENGTH MIRROR
FM	FIRE MAIN
FO	FACE OF
FO	FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOR	FUEL OIL RETURN
FOS	FACE OF STUD
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FOW	FACE OF WALL
FP	FIREPROOFING
FR	FIRE RESISTIVE
FR	FRAME
FRP	FIBERGLASS REINFORCED PANEL
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
FSS	FOLDING SHOWER SEAT
FT	FEET (FOOT)
FTG	FOOTING
FUT	FUTURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	
G	GRILLE
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GCMU	GLAZED CONCRETE MASONRY UNIT
GD	GARBAGE DISPOSAL
GEN	GENERAL
GEN	GENERATOR
GFA	GROSS FLOOR AREA
GFI	GROUND FAULT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLUE LAMINATED
GL	GLASS
GMU	GLASS MASONRY UNIT
GOVT	GOVERNMENT
GR	GUARD RAIL
GR	GRADE
GR	GRILLE
GRC	GLASS REINFORCED CONCRETE
GRGP	GLASS REINFORCED GYPSUM PLASTER
GRS	GALVANIZED RIGID STEEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
H	HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE
HD	HAND DRYER OR HAIR DRYER
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HANDRAIL
HR	HOUR
HS	HEADSTUD
HSS	HOLLOW STRUCTURAL SECTION
HSTR	HIGH STRENGTH
HT	HEIGHT
HTR	HEATER
HW	DOMESTIC HOT WATER
I	
IAW	IN ACCORDANCE WITH
IC	INTERCOM
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IJ	ISOLATION JOINT
IN	INCH
INC	INCLUDE (ING)
INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
JST	JOIST
JFB	JOINT FILLER BOARD
JT	JOINT
K	
KCJ	KEYED CONSTRUCTION JOINT
KCP	KEENE'S CEMENT PLASTER
KD	KNOCKDOWN
KH	KITCHEN HOOD
L	
L	ANGLE
LAM	LAMINATE(D)
LAV	LAVATORY
LB	POUND
LBR	LUMBER
LBS	POUNDS
LDG	LOADING
LF	LINEAR FOOT (FEET)
LG	LENGTH (LONG)
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LOX	LIQUID OXYGEN
LS	LAWN SPRINKLER
LSC	LIFE SAFETY CODE
LT	LIGHT
LTG	LIGHTING
LV	LOUVER
LW	LONG WAY
M	
MAC	MACHINE
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MOP BASIN
MBD	MARKER BOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFRG	MANUFACTURING
MH	MANHOLE
MH	MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MR	MIRROR
MR/S	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION
MW	MARKER WALL
N	
N	NORTH
N/A	NOT APPLICABLE
NC	NURSE CALL
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
O to O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OF	OUTSIDE FACE
OVFL	OVERFLOW
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OPG	OPENING
OPP	OPPOSITE
OTCS	OPEN TO CEILING SPACE
OVHD	OVERHEAD
P	
P	PAINT
PA	PUBLIC ADDRESS
PAR	PARALLEL
PB	PARTICLE BOARD
PB	PULL BOX
PB	PUSH BUTTON
PC	PRECAST
PCD	PAPER CUP DISPENSER
PCF	POUNDS PER CUBIC FOOT
PCT	PORCELAIN CERAMIC TILE
PERF	PERFORATED
PERP	PERPENDICULAR
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POC	POINT OF CONNECTION
PORC	PORCELAIN
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECTION
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PLASTER TRAP
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWR	POWER
Q	
QT	QUARRY TILE
QTR	QUARTER ROUND
R	
R	RADIUS
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REG	REGISTER
REM	REMOVABLE
REQ(D)	REQUIRE(D)
RESIL	RESILIENT
RET	RETAINING (WALL)
REV	REVISIONS
RF	RUBBER FLOOR
RFM	RECESSED FLOOR MAT
RH	ROBE HOOK
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
S	
S	SINK
S	SANITARY SEWER
S	SOAP DISH
S	SOUTH
S	SPRINKLER LINE
SA	SUPPLY AIR
SAN	SANITARY WASTE
SC	SECURITY
SC	SOLID CORE
SC	SHOWER CURTAIN
SC	SPECIAL COATING
SCD	SEAT COVER DISPENSER
SCH	SHOWER CURTAIN HOOKS
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
SD	STORM DRAIN
SEC	SECONDARY
SECT	SECTION
SECY	SECRETARY
SF	SQUARE FOOT
SFCMU	SPLIT-FACED CONCRETE MASONRY UNIT
SGL	SINGLE
SH	SHOWER
SHEATH	SHEATHING
SHM	SECURITY HOLLOW METAL
SHT	HEET
S	(Cont'd)
SIM	SIMILAR
SL	SHORT LEG
SLNT	SEALANT
SM	SHEET METAL
SM	SPRINKLER MAIN
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SPEC	SPECIFICATIONS
SPL	SPECIAL
SPL	BLK SPLASH BLOCK
SQ	SQUARE
SS	SERVICE SINK
SS	SOLID SURFACE
SSD	SEE STRUCTURAL DRAWINGS
SST	STAINLESS STEEL
ST	STAIR
STAG'D	STAGGERED
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL - STRUCTURE
SUBFL	SUBFLOOR
SURF	SURFACE
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	
T	TEMPERED
T	THERMOSTAT
T & B	TOP & BOTTOM
T& G	TONGUE & GROOVE
T	TREAD
TA	TRANSFER AIR
TAN	TANGENT
TB	TOWEL BAR
TBD	TACK BOARD
TC	TEMPERATURE CONTROL
TC	TIME CLOCK
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERED - TEMPORARY
TERR	TERRAZZO
TEXT	TEXTURED
TH	THRESHOLD
TH	TOWEL HOOK
THK	THICK(NESS)
TMR	TILT MIRROR UNIT
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOIL	TOILET
TOP	TOP OF PAVING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPV	TRAP PRIMER
TR	TRIP
TRANS	TRANSVERSE
TRD	TREAD
TT	TERRAZZO TILE
TTD	TOILET TISSUE DISPENSER
TV	TELEVISION / MONITOR
TW	TACK WALL
TYP	TYPICAL
U	
U	URINAL
UL	UNDERWRITERS LABORATORIES
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
V	
V	VENT
VAV	VARIABLE AIR VOLUME
VB	VAPOR BARRIER
VB	VINYL BASE
VCB	VENTED COVE BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FLOOR
VP	VENEER PLASTER
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALLCOVERING
W	
W	WATER SERVICE
W	WIDE; WIDTH
W	WEST
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WC	WALL COVERING
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WDW	WINDOW
WF	WASH FOUNTAIN
WH	WALL HYDRANT
WH	WATER HEATER
WI	WROUGHT IRON
WNSCT	WAINSCOT
WP	WEATHERPROOF
WR	WATER RESISTANT
WR	WASTE RECEPTACLE
WSP	WET STAND PIPE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	
XFMR	TRANSFORMER
Y	
YD	YARD
YH	YARD HYDRANT
#	
&	AND
@	AT
i.e.	THAT IS
#	NUMBER

GLAZING ABBREVIATIONS:

CG	CLEAR FLOAT GLASS
CIG	CLEAR INSULATING GLASS
CTG	CLEAR TEMPERED FLOAT GLASS
CTIG	CLEAR TEMPERED INSULATING GLASS
FG	FIRE-RATED GLASS
LG	LAMINATED GLASS
LIG	LAMINATED INSULATING GLASS
PG	PATTERN GLASS
PIG	PATTERN INSULATING GLASS
SG	SPANDREL GLASS
SIG	SPANDREL INSULATING GLASS
TG	TINTED FLOAT GLASS
TIG	TINTED INSULATING GLASS
TTG	TINTED TEMPERED FLOAT GLASS
TTIG	TINTED TEMPERED INSULATING GLASS

SYMBOL LEGEND



TESTING AND INSPECTION REQUIREMENTS FOR SCHOOL CONSTRUCTION

I. TEST

THE OWNER WILL SELECT AN INDEPENDENT TESTING LABORATORY TO CONDUCT THE TESTS. SECTION OF THE MATERIAL REQUIRED TO BE TESTED SHALL BE BY THE LABORATORY OR THE OWNER'S REPRESENTATIVE AND NOT BY THE CONTRACTOR.
THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A SUFFICIENT TIME IN ADVANCE OF THE MANUFACTURE OF MATERIAL TO BE SUPPLIED BY HIM UNDER THE CONTRACT DOCUMENTS, WHICH MUST BY TERMS OF THE CONTRACT BE TESTED, IN ORDER THAT THE OWNER MAY ARRANGE FOR THE TESTING OF SAME AT THE SOURCE OF SUPPLY.
ANY MATERIAL SHIPPED BY THE CONTRACTOR FROM THE SOURCE OF SUPPLY PRIOR TO HAVING SATISFACTORY PASSED SUCH TESTING AND INSPECTION OR PRIOR TO THE RECEIPT OF NOTICE FROM SAID REPRESENTATIVE THAT SUCH TESTING AND INSPECTION WILL NOT BE REQUIRED SHALL NOT BE INCORPORATED IN THE JOB.
THE OWNER WILL SELECT AND PAY TESTING LABORATORY COSTS FOR ALL TESTS AND INSPECTIONS, BUT MAY BE REIMBURSED BY THE CONTRACTOR FOR SUCH COSTS UNDER THE CONTRACT DOCUMENTS.

II. TEST REPORTS

ONE COPY OF ALL TEST REPORTS SHALL BE FORWARDED TO THE DIVISION OF THE STATE ARCHITECT BY THE TESTING AGENCY. SUCH REPORTS SHALL INCLUDE ALL TESTS MADE, REGARDLESS OF WHETHER SUCH TEST INDICATE THAT THE MATERIAL IS SATISFACTORY OR UNSATISFACTORY. SAMPLES TAKEN BUT NOT TESTED SHALL ALSO BE REPORTED. RECORDS OF SPECIAL SAMPLING OPERATIONS AS REQUIRED SHALL ALSO BE REPORTED. THE REPORTS SHALL SHOW THAT THE MATERIAL OR MATERIALS WERE SAMPLED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 AND WITH THE APPROVED SPECIFICATIONS. TEST REPORTS SHALL SHOW THE SPECIFIED DESIGN STRENGTH. THEY SHALL ALSO STATE DEFINITELY WHETHER OR NOT THE MATERIAL OR MATERIALS TESTED COMPLY WITH REQUIREMENTS.

III. VERIFICATION OF TEST REPORTS

EACH TESTING AGENCY SHALL SUBMIT TO THE DIVISION OF THE STATE ARCHITECT A VERIFIED REPORT IN DUPLICATE COVERING ALL THE TESTS WHICH ARE REQUIRED TO BE MADE BY THAT AGENCY DURING THE PROGRESS OF THE PROJECT. SUCH REPORT SHALL BE FURNISHED EACH TIME THAT WORK ON THE PROJECT IS SUSPENDED, COVERING THE TESTS UP TO THAT TIME, AND AT THE COMPLETION OF THE PROJECT, COVERING ALL TESTS.

IV. INSPECTION BY THE OWNER

THE OWNER AND HIS REPRESENTATIVES SHALL, AT ALL TIMES HAVE ACCESS FOR THE PURPOSE OF INSPECTION TO ALL PARTS OF THE WORK AND TO THE SHOPS WHEREIN THE WORK IS IN PREPARATION, AND THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN PROPER FACILITIES AND PROVIDE SAFE ACCESS FOR SUCH INSPECTION.
THE OWNER SHALL HAVE THE RIGHT TO REJECT MATERIALS AND WORKMANSHIP, WHICH ARE DEFECTIVE, OR TO REQUIRE THEIR CORRECTION. REJECTED WORKMANSHIP SHALL BE SATISFACTORILY CORRECTED AND REJECTED MATERIALS SHALL BE REMOVED FROM THE PREMISES WITHOUT CHARGE TO THE OWNER. IF THE CONTRACTOR DOES NOT CORRECT SUCH REJECTED WORK WITHIN A REASONABLE TIME, FIXED BY WRITTEN NOTICE, THE OWNER MAY CORRECT SAME AND CHARGE THE EXPENSE TO THE CONTRACTOR.
SHOULD IT BE CONSIDERED NECESSARY OR ADVISABLE BY THE OWNER AT ANY TIME BEFORE FINAL ACCEPTANCE OF THE ENTIRE WORK TO MAKE AN EXAMINATION OF THE WORK ALREADY COMPLETED BY REMOVING OR TEARING OUT THE SAME, THE CONTRACTOR SHALL ON REQUEST PROMPTLY FURNISH ALL NECESSARY FACILITIES, LABOR AND MATERIALS. IF SUCH WORK IS FOUND TO BE DEFECTIVE IN ANY RESPECT DUE TO THE FAULT OF THE CONTRACTOR OR HIS SUBCONTRACTOR, HE SHALL DEFRAY ALL EXPENSES OF SUCH EXAMINATIONS AND OF SATISFACTORY RECONSTRUCTION. IF HOWEVER, SUCH WORK IS FOUND TO MEET THE REQUIREMENTS OF THE CONTRACT, THE ADDITIONAL COST OF LABOR AND MATERIAL NECESSARILY INVOLVED IN THE EXAMINATION AND REPLACEMENT SHALL BE ALLOWED BY THE CONTRACTOR.

V. INSPECTOR - OWNER'S

A DSA CERTIFIED PROJECT INSPECTOR AND SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1, WILL BE ASSIGNED TO THE WORK. HIS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF TITLE 24, PART 1.
THE WORK OF CONSTRUCTION IN ALL STAGES OF PROGRESS SHALL BE SUBJECTED TO THE PERSONAL CONTINUOUS OBSERVATION OF THE INSPECTOR. HE SHALL HAVE FREE ACCESS TO ANY OR ALL PARTS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL FURNISH THE INSPECTOR REASONABLE FACILITIES FOR OBTAINING SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED RESPECTING THE PROGRESS AND MANNER OF THE WORK AND THE CHARACTER OF THE MATERIALS. INSPECTION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO FULFILL THIS CONTRACT.

VI. INSPECTOR - OWNER - FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE FOR THE USE OF THE OWNER'S INSPECTOR A TEMPORARY OFFICE TO BE LOCATED AS DIRECTED BY THE INSPECTOR AND TO BE MAINTAINED UNTIL REMOVAL IS AUTHORIZED BY THE OWNER. THIS OFFICE SHALL BE OF SUBSTANTIAL WATERPROOF CONSTRUCTION WITH ADEQUATE NATURAL LIGHT AND VENTILATION BY MEANS OF STOCK DESIGN WINDOWS. THE DOOR SHALL HAVE A LOCK. A TABLE SATISFACTORY FOR THE STUDY OF PLANS AND TWO CHAIRS SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ADEQUATE ELECTRIC LIGHTS, PRIVATE LOCAL TELEPHONE SERVICE WITH A LOUD EXTERIOR BELL, AND ADEQUATE HEAT FOR THE FIELD OFFICE UNTIL THE COMPLETION OF THE CONTRACT.

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DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

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CONSULTANT'S SEAL:

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

ABBREVIATIONS, SYMBOLS, AND TESTING AND INSPECTION REQUIREMENTS

SHEET NUMBER:

AG001-02

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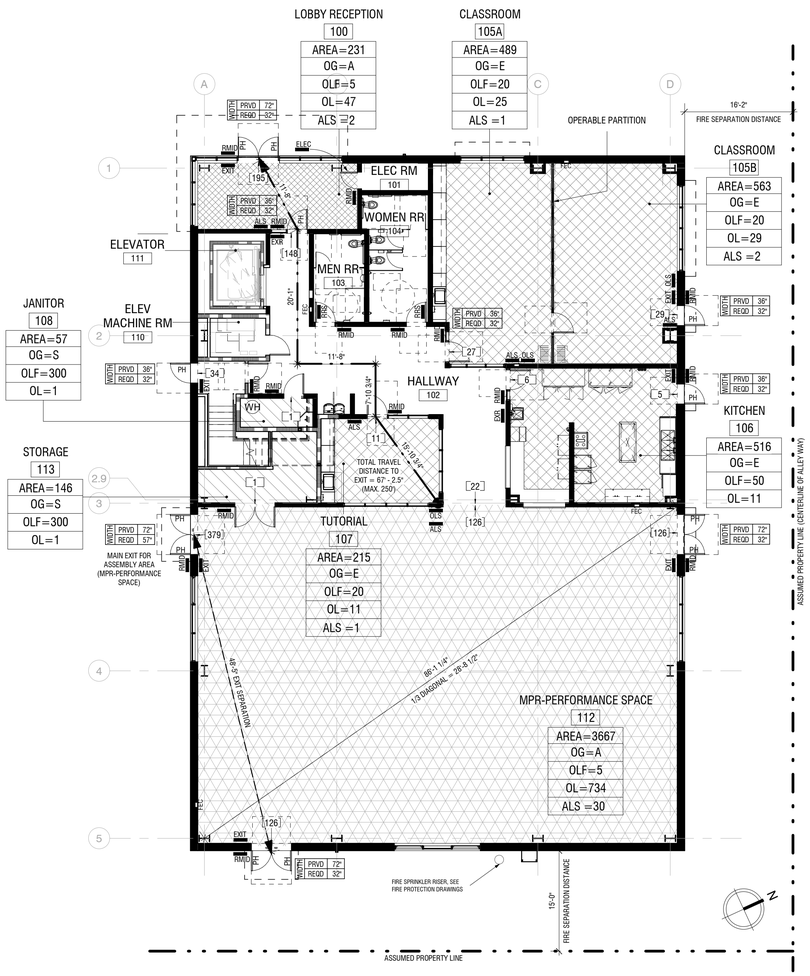
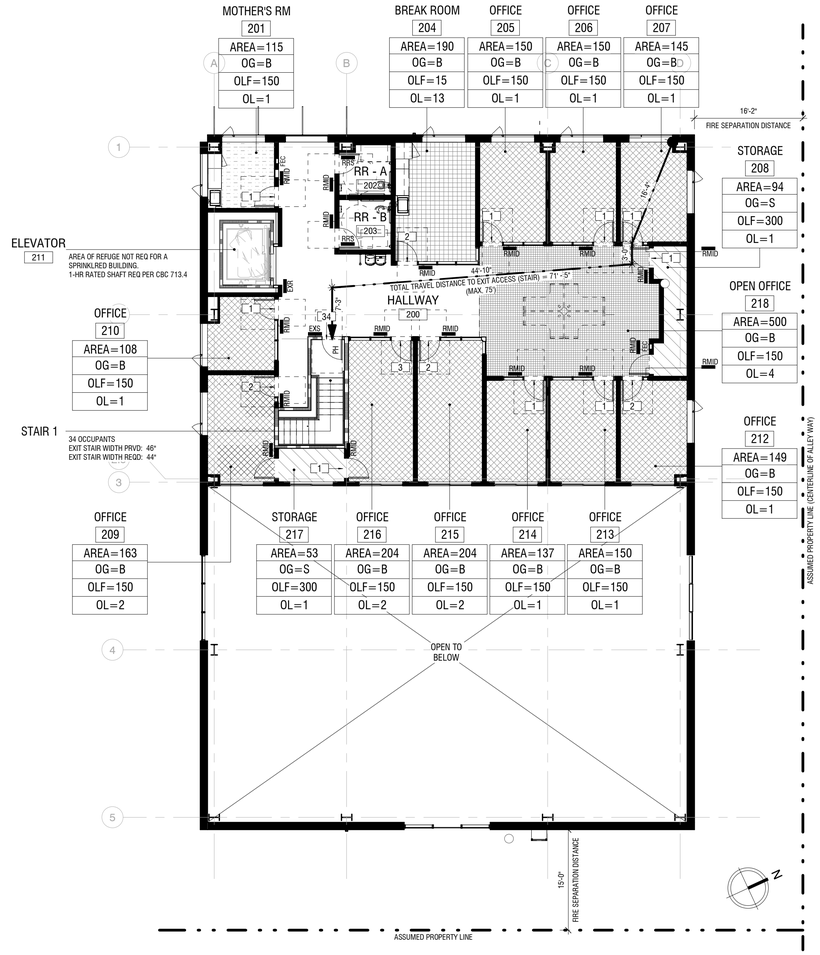
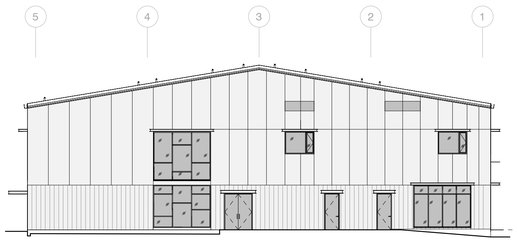


1 CODE ANALYSIS PLAN - FIRST LEVEL
3/32" = 1'-0"



2 CODE ANALYSIS PLAN-SECOND LEVEL
3/32" = 1'-0"

CODE ANALYSIS							
ROOM NUMBER	**ROOM NAME**	**FUNCTION OF SPACE**	**OCCUPANCY GROUP**	**AREA**	**GROSS / NET**	**OCCUPANT LOAD FACTOR**	**NO. OF OCCUPANTS**
FIRST LEVEL							
100	LOBBY RECEPTION	ASSEMBLY W/O FIXED SEATS (STANDING SPACE)	A	231	NET	5	47
105A	CLASSROOM	EDUCATIONAL CLASSROOM	E	489	NET	20	25
105B	CLASSROOM	EDUCATIONAL CLASSROOM	E	563	NET	20	29
106	KITCHEN	CULINARY ARTS CLASSROOM	E	516	NET	50	11
107	TUTORIAL	EDUCATIONAL CLASSROOM	E	215	NET	20	11
108	JANITOR	ACCESSORY STORAGE, MECH. EQUIP. ROOMS	S	57	GROSS	300	1
112	MPR-PERFORMANCE SPACE	ASSEMBLY W/O FIXED SEATS (STANDING SPACE)	A	3667	NET	5	734
113	STORAGE	ACCESSORY STORAGE, MECH. EQUIP. ROOMS	S	146	GROSS	300	1
FIRST LEVEL							859
SECOND LEVEL							
201	MOTHER'S RM	OFFICE	B	115	GROSS	150	1
204	BREAK ROOM	ACCESSORY SPACE TO OFFICES	B	190	NET	15	13
205	OFFICE	OFFICE	B	150	GROSS	150	1
206	OFFICE	OFFICE	B	150	GROSS	150	1
207	OFFICE	OFFICE	B	145	GROSS	150	1
208	STORAGE	ACCESSORY STORAGE, MECH. EQUIP. ROOMS	S	94	GROSS	300	1
209	OFFICE	OFFICE	B	163	GROSS	150	2
210	OFFICE	OFFICE	B	108	GROSS	150	1
212	OFFICE	OFFICE	B	149	GROSS	150	1
213	OFFICE	OFFICE	B	150	GROSS	150	1
214	OFFICE	OFFICE	B	137	GROSS	150	1
215	OFFICE	OFFICE	B	204	GROSS	150	2
216	OFFICE	OFFICE	B	204	GROSS	150	2
217	STORAGE	ACCESSORY STORAGE, MECH. EQUIP. ROOMS	S	53	GROSS	300	1
218	OPEN OFFICE	OPEN OFFICE	B	500	GROSS	150	4
SECOND LEVEL							33
BUILDING TOTAL							**893**



3 EAST ELEVATION - OPENINGS CALCULATION
1/16" = 1'-0"

MAXIMUM AREA OF EXTERIOR WALL OPENINGS

	TOTAL OPENING AREA	SF 586
	TOTAL EXTERIOR WALL AREA	SF 3267
	OPENING TO WALL RATIO	17%
	FIRE SEPARATION DISTANCE (FSD)	16 FT - 2 IN
	MAXIMUM AREA OF EXTERIOR WALL OPENING PER CBC 705.8 UNPROTECTED/ SPRINKLERED FOR FSD 15 FEET TO LESS THAN 20 FEET	75%

BUILDING CODE ANALYSIS NOTES:

1. PARAPETS ARE NOT PROVIDED ON EXTERIOR WALLS OF THIS BUILDING BASED ON CBC 705.11 EXCEPTION 3: THE ROOF, INCLUDING THE DECK OR SLAB AND SUPPORTING CONSTRUCTION, IS CONSTRUCTED ENTIRELY OF NONCOMBUSTIBLE MATERIALS.

SIGNAGE LEGEND

- ALS — ASSISTIVE LISTENING SYSTEM SIGN - REFER TO: 3 / A703-02
- EXIT — EXIT SIGN - REFER TO: 5 / A703-02
- EXR EXS — EXIT ROUTE / EXIT STAIR - REFER TO: 5 / A703-02
- FSR — FIRE SPRINKLER RISER SIGN - REFER TO: 9 / A703-02
- OLS — OCCUPANT LOAD SIGN - REFER TO: 4 / A703-02
- RRS — RESTROOM - UNISEX (ON DOOR) - REFER TO: 7 / A703-02
- RMID — ROOM IDENTIFICATION NAME - REFER TO: 6 / A703-02
- ELEC — ELECTRICAL ROOM - REFER TO: 12 / A703-02

CODE ANALYSIS LEGEND

NAME / XXX	ROOM NAME / ROOM NUMBER
AREA=XXX SF	AREA
OG=XX	OCCUPANCY GROUP
OLF=XX	OCCUPANCY LOAD FACTOR
OL=XXX	OCCUPANCY LOAD
ALS=XXX	ALS DEVICE COUNT
	TOTAL OF OCCUPANTS EXITING AT DOOR
	EXIT PATH
	EMERGENCY EXIT LIGHTS
FEC	FIRE EXTINGUISHER CABINET - WITH UL RATED TYPE 2A-10B:C EXTINGUISHER, SEE DETAIL 2/A900-02
AED	AED CABINET WITH PORTABLE AED EQUIPMENT
2'-0" EXT. 1'-6" INT. / 5'-0" / 1'-0" / 4'-0" / PH	DOOR ACCESSIBLE CLEARANCES SHOWN DASHED PH LABEL INDICATES PANIC HARDWARE REQUIRED
WIDTH PRVD 36" REQD 32"	EXIT WIDTH PROVIDED EXIT WIDTH REQUIRED (OCCUPANT X 0.15") MIN. 32" AT DOORS *BUILDING IS FULLY SPRINKLERED
	ACCESSIBLE TURN AROUND (5'-0" DIA.)
48" / 30"	30" X 48" ACCESSIBLE CLEAR FLOOR AREA
	WALL - NON-RATED
	WALL - 1 HR RATED FIRE BARRIER
	OPERABLE PARTITION

OCCUPANCY FILL LEGEND

- CLASSROOM
- JANITOR
- KITCHEN
- LOBBY RECEPTION
- MPR-PERFORMANCE SPACE
- STORAGE
- TUTORIAL
- BREAK ROOM
- MOTHER'S RM
- OFFICE
- OPEN OFFICE
- STORAGE

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MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

CODE ANALYSIS - MAIN BUILDING

SHEET NUMBER:

AG101-02

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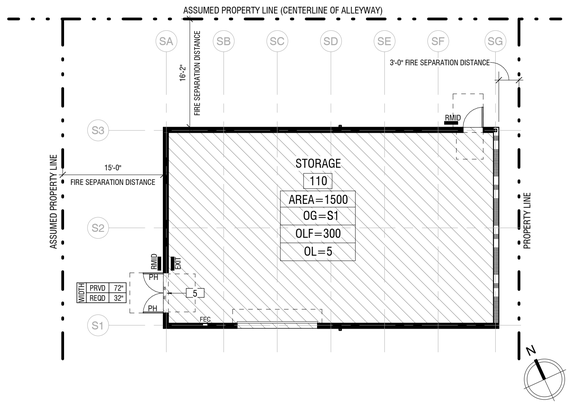
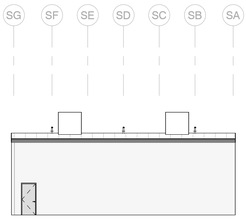


1 CODE ANALYSIS PLAN - STORAGE BUILDING
3/32" = 1'-0"



2 STORAGE BUILDING EAST ELEVATION - OPENINGS CALCULATION
1/16" = 1'-0"

MAXIMUM AREA OF EXTERIOR WALL OPENINGS

	TOTAL OPENING AREA	SF 24
	TOTAL EXTERIOR WALL AREA	SF 843
	OPENING TO WALL RATIO	3 %
	FIRE SEPARATION DISTANCE	16 FT - 2 IN
	MAXIMUM AREA OF EXTERIOR WALL OPENING PER CBC 705.8 UNPROTECTED/ NONSPRINKLERED FOR FSD 15 FEET TO LESS THAN 20 FEET	25%

BUILDING CODE ANALYSIS NOTES:

1. THERE SHALL BE NO HAZARDOUS MATERIALS STORED ABOVE THE MINIMUM ALLOWABLE QUANTITIES OF CBC 307.1.

2. PARAPETS ARE NOT PROVIDED ON EXTERIOR WALLS OF THIS BUILDING BASED ON CBC 705.11 EXCEPTION 3: THE ROOF, INCLUDING THE DECK OR SLAB AND SUPPORTING CONSTRUCTION, IS CONSTRUCTED ENTIRELY OF NONCOMBUSTIBLE MATERIALS.

SIGNAGE LEGEND

- ALS — ASSISTIVE LISTENING SYSTEM SIGN - REFER TO: 3 / A703-02
- EXIT — EXIT SIGN - REFER TO: 5 / A703-02
- EXR EXS — EXIT ROUTE / EXIT STAIR - REFER TO: 5 / A703-02
- FSR — FIRE SPRINKLER RISER SIGN - REFER TO: 9 / A703-02
- OLS — OCCUPANT LOAD SIGN - REFER TO: 4 / A703-02
- RRS — RESTROOM - UNISEX (ON DOOR) - REFER TO: 7 / A703-02
- RMID — ROOM IDENTIFICATION NAME - REFER TO: 6 / A703-02
- ELEC — ELECTRICAL ROOM - REFER TO: 12 / A703-02

CODE ANALYSIS LEGEND

NAME / XXX	ROOM NAME / ROOM NUMBER
AREA=XXX SF	AREA
OG=XX	OCCUPANCY GROUP
OLF=XX	OCCUPANCY LOAD FACTOR
OL=XXX	OCCUPANCY LOAD
ALS=XXX	ALS DEVICE COUNT
	TOTAL OF OCCUPANTS EXITING AT DOOR
	EXIT PATH
	EMERGENCY EXIT LIGHTS
FEC	FIRE EXTINGUISHER CABINET - WITH UL RATED TYPE 2A-10B:C EXTINGUISHER, SEE DETAIL 2/A900-02
AED	AED CABINET WITH PORTABLE AED EQUIPMENT
2'-0" EXT. 1'-0" INT. / 5'-0" / 1'-0" / 4'-0" / PH	DOOR ACCESSIBLE CLEARANCES SHOWN DASHED PH LABEL INDICATES PANIC HARDWARE REQUIRED
WIDTH PRVD 36" REQD 32"	EXIT WIDTH PROVIDED EXIT WIDTH REQUIRED (OCCUPANT X 0.15") MIN. 32" AT DOORS *BUILDING IS FULLY SPRINKLERED
	ACCESSIBLE TURN AROUND (5'-0" DIA.)
48" / 30"	30" X 48" ACCESSIBLE CLEAR FLOOR AREA
	WALL - NON-RATED
	WALL - 1 HR RATED FIRE BARRIER
	OPERABLE PARTITION

OCCUPANCY FILL LEGEND

- STORAGE

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MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

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CODE ANALYSIS - STORAGE BUILDING

SHEET NUMBER:

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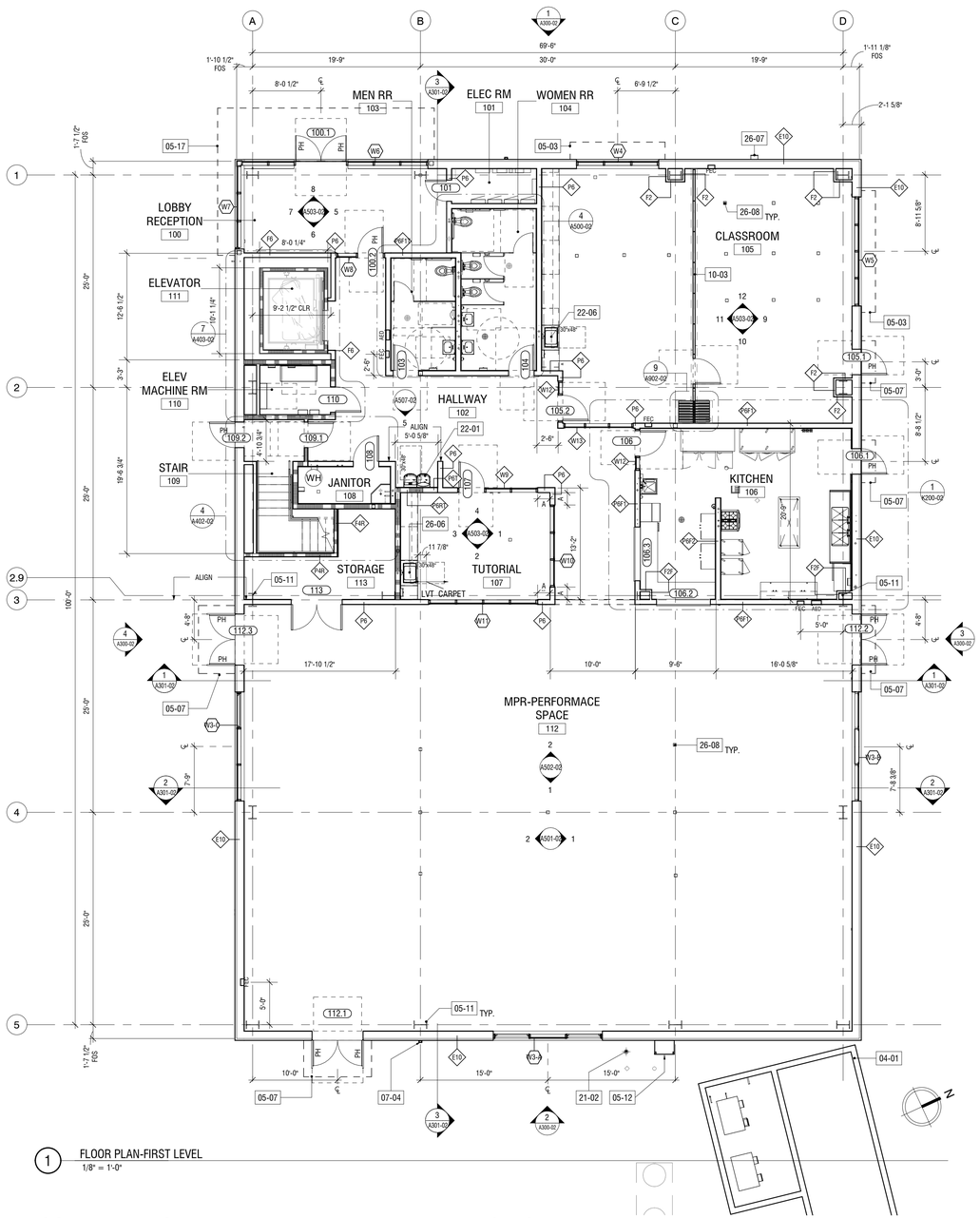

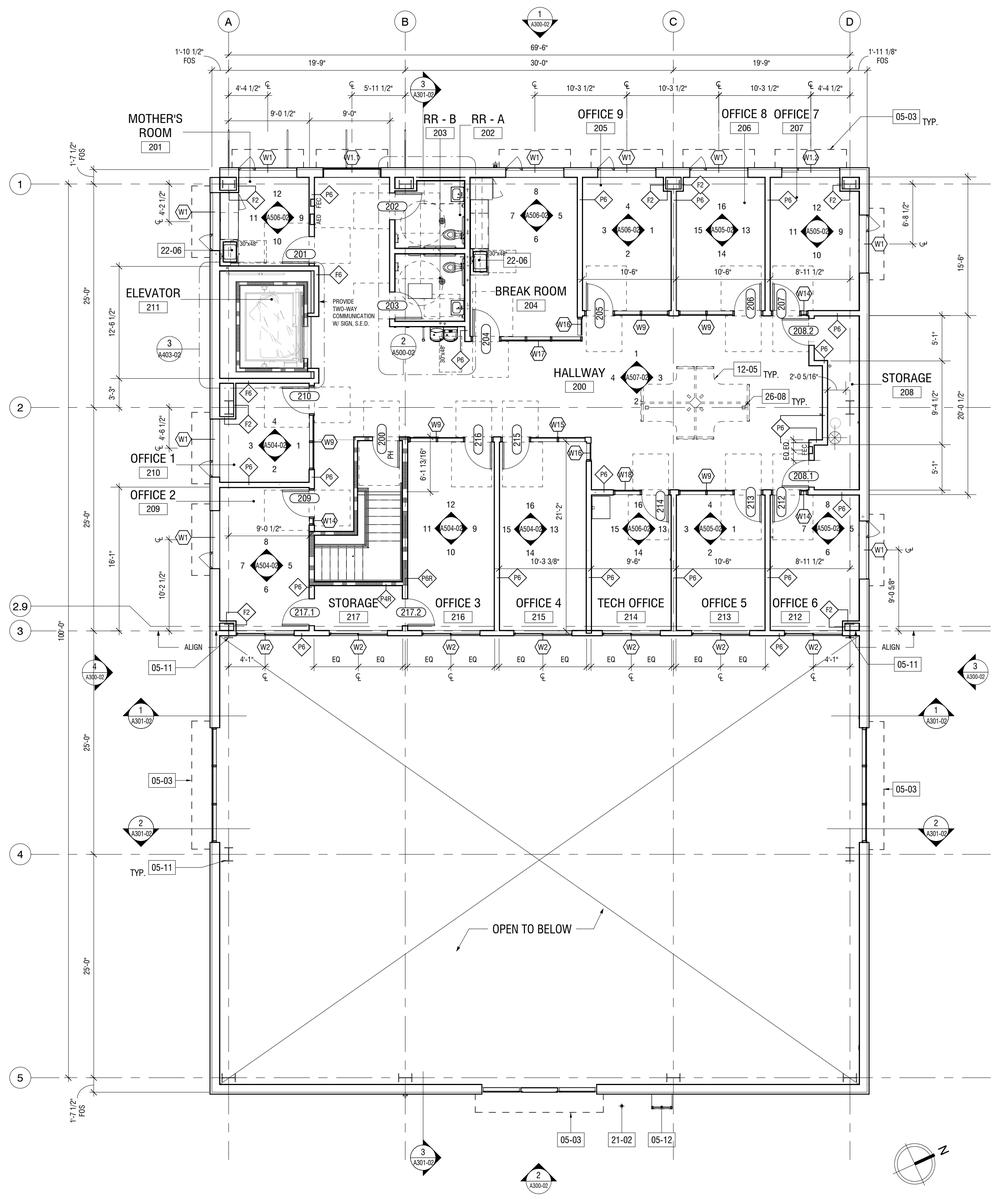

FLOOR PLAN LEGEND

FEC	FIRE EXTINGUISHER CABINET - WITH UL RATED TYPE 2A-10B:C EXTINGUISHER, SEE DETAIL 1/A900-02
AED	AED CABINET WITH PORTABLE AED EQUIPMENT
	WALL - NON-RATED
	WALL - 1 HR RATED FIRE BARRIER
2'-0" EXT. 1'-6" INT. 5'-0" 1'-0" PH 4'-0"	DOOR ACCESSIBLE CLEARANCES SHOWN DASHED PH LABEL INDICATES PANIC HARDWARE REQUIRED
	ACCESSIBLE TURN AROUND (5'-0" DIA.)
48" 30"	30" X 48" ACCESSIBLE CLEAR FLOOR AREA

PLAN NOTES

1. REFER TO ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES
2. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATION OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
3. ALL WALLS EXTEND TO UNDERSIDE OF DECK U.N.O.
4. FLASH DRAINS, CURB, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON PLANS.
5. ALL ROOFING TO BE CLASS A.
6. THE ENTIRE ROOF IS CLEAR OF EQUIPMENT AND PARAPETS. THE ENTIRE ROOF AREA HAS BEEN DESIGNED TO ACCOUNT FOR A SOLAR PV SYSTEM (REFER TO STRUCTURAL BASIC DESIGN LOADS & SPECIAL LOADS). PROVIDE MINIMUM SOLAR ZONE AS SHOWN ON PLAN. PROVIDE 6-FOOT WIDE ACCESS PERIMETER AROUND THE EDGES OF THE ROOF.

KEYNOTE LEGEND

04-01	CMU REFUSE ENCLOSURE, SEE CIVIL DRAWINGS
05-03	PERFORATED METAL CANOPY OVER WINDOW FOR SHADE ONLY, DIMENSIONS PER PLAN, SEE DETAIL 1 AND 2/A804-02
05-07	SOLID LID METAL CANOPY OVER DOOR, DIMENSIONS PER PLAN, SEE DETAILS 3 AND 6/A800-02
05-11	STEEL COLUMN, S.S.D.
05-12	ROOF ACCESS LADDER WITH PLATFORM, SEE A803-02
05-17	ENTRY CANOPY, SEE DETAIL 3/A804-02
07-04	DOWNSPOUT, SEE DETAIL 8/A800-02
10-03	OPERABLE PANEL PARTITION WITH PASS-THRU DOOR, S.S.D. AND SEE DETAIL 7, 8 AND 9/A902-02
12-05	OFOI SYSTEMS FURNITURE
21-02	FIRE SPRINKLER RISER, SEE FIRE PROTECTION DRAWINGS
22-01	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE DETAILS 12/A901-02
22-06	ACCESSIBLE SINK, SEE DETAIL 11/A900-02 AND S.P.D.
26-06	LIGHT FIXTURE, S.E.D.
26-07	ELECTRICAL EQUIPMENT, S.E.D.
26-08	ELECTRICAL FIXTURE, S.E.D.

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MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

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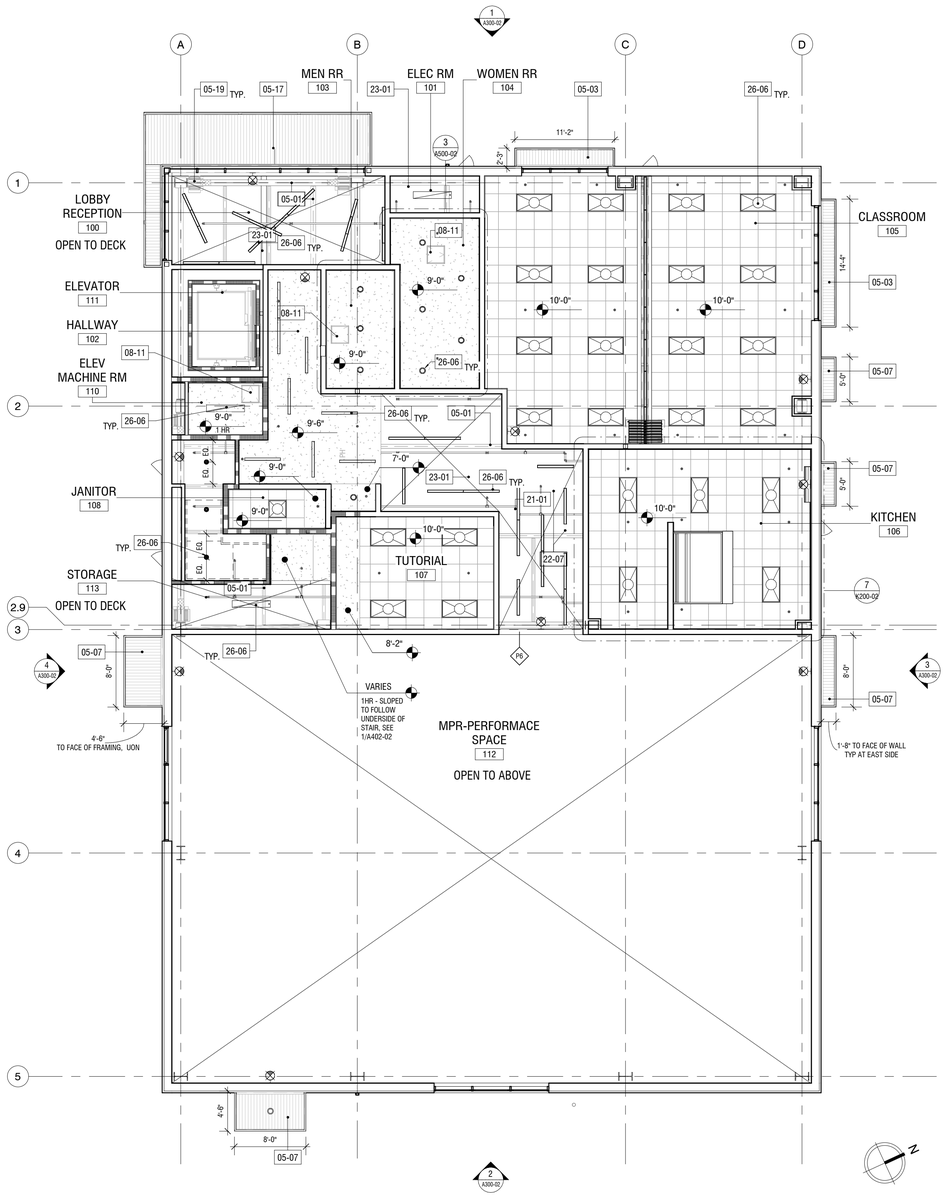
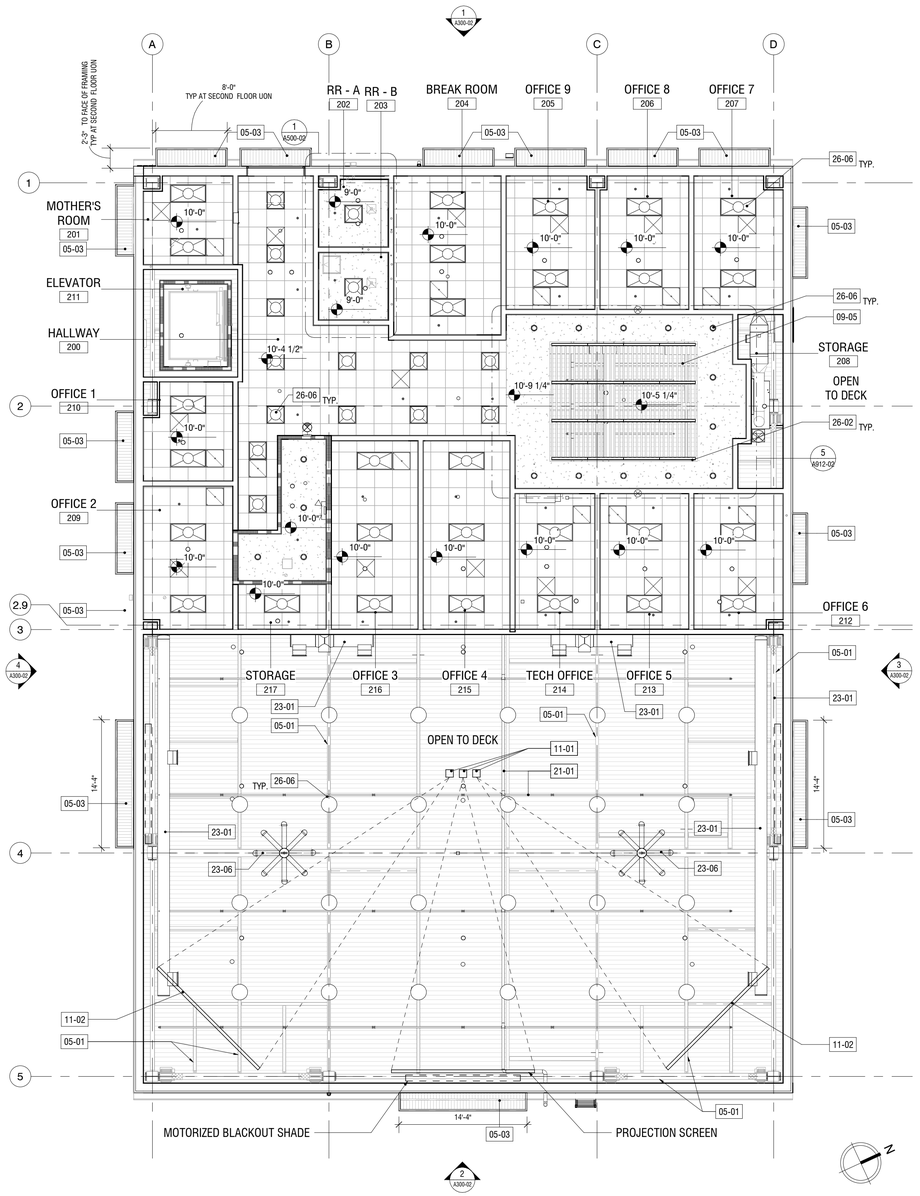
FLOOR PLANS - MAIN BUILDING

SHEET NUMBER:

A200-02



1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

EXPOSED METAL DECK, S.S.D.

GYPSUM BOARD CEILING, FOR FRAMING S.S.D.
(MOISTURE RESISTANT AT RESTROOMS)

SUSPENDED ACOUSTICAL CEILING,
SEE PAGE A902
(MOISTURE RESISTANT AT KITCHEN)

LIGHTING FIXTURES, S.E.D.

CEILING MOUNTED / WALL MOUNTED — EMERGENCY EXIT SIGN

PLAN NOTES

1. REFER TO ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES
2. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATION OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
3. ALL WALLS EXTEND TO UNDERSIDE OF DECK U.N.O.
4. FLASH DRAINS, CURB, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON PLANS.
5. ALL ROOFING TO BE CLASS A.
6. THE ENTIRE ROOF IS CLEAR OF EQUIPMENT AND PARAPETS. THE ENTIRE ROOF AREA HAS BEEN DESIGNED TO ACCOUNT FOR A SOLAR PV SYSTEM (REFER TO STRUCTURAL BASIC DESIGN LOADS & SPECIAL LOADS). PROVIDE MINIMUM SOLAR ZONE AS SHOWN ON PLAN. PROVIDE 6-FOOT WIDE ACCESS PERIMETER AROUND THE EDGES OF THE ROOF.

KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.	26-06	LIGHT FIXTURE, S.E.D.
05-03	PERFORATED METAL CANOPY OVER WINDOW FOR SHADE ONLY, DIMENSIONS PER PLAN, SEE DETAIL 1 AND 2/A804-02		
05-07	SOLID LID METAL CANOPY OVER DOOR, DIMENSIONS PER PLAN, SEE DETAILS 3 AND 6/A800-02		
05-17	ENTRY CANOPY, SEE DETAIL 3/A804-02		
05-19	STEEL CONNECTION SYSTEM, S.S.D.		
08-11	2' X 2' CEILING ACCESS PANEL		
09-05	SUSPENDED ACOUSTICAL BAFFLE CEILING, SEE DETAIL A912-02		
11-01	OFCI AV EQUIPMENT - PROJECTOR		
11-02	OFCI AV EQUIPMENT - PROJECTION SCREEN		
21-01	FIRE SPRINKLER PIPE, SEE FIRE PROTECTION DRAWINGS		
22-07	PLUMBING PIPING, S.P.D.		
23-01	HVAC DUCT, S.M.D.		
23-06	7' DIAMETER HIGH VOLUME LOW SPEED TYPE CEILING FAN, SEE DETAIL 3/A901-02 AND S.M.D.		
26-02	LINEAR LIGHT FIXTURE, S.E.D.		

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STATE OF CALIFORNIA

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MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
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SHEET TITLE
REFLECTED CEILING PLANS - MAIN BUILDING

SHEET NUMBER:
A201-02

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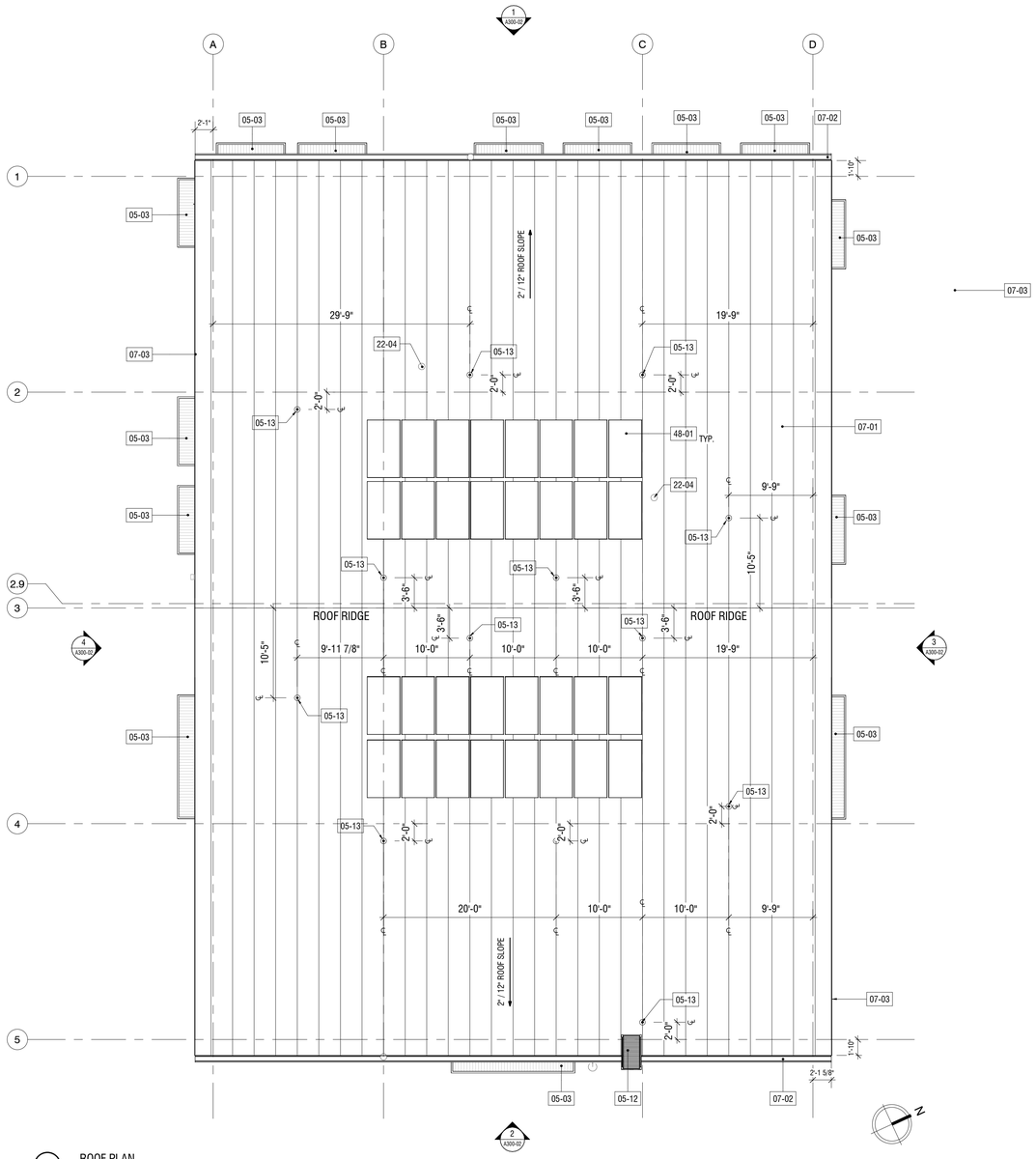

1 ROOF PLAN
1/8" = 1'-0"

ROOF PLAN LEGEND

INSULATED METAL ROOF PANEL WITH STANDING SEAM

PLAN NOTES

1. REFER TO ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES
2. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATION OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
3. ALL WALLS EXTEND TO UNDERSIDE OF DECK U.N.O.
4. FLASH DRAINS, CURB, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON PLANS.
5. ALL ROOFING TO BE CLASS A.
6. THE ENTIRE ROOF IS CLEAR OF EQUIPMENT AND PARAPETS. THE ENTIRE ROOF AREA HAS BEEN DESIGNED TO ACCOUNT FOR A SOLAR PV SYSTEM (REFER TO STRUCTURAL BASIC DESIGN LOADS & SPECIAL LOADS). PROVIDE MINIMUM SOLAR ZONE AS SHOWN ON PLAN. PROVIDE 6-FOOT WIDE ACCESS PERIMETER AROUND THE EDGES OF THE ROOF.

KEYNOTE LEGEND

05-03	PERFORATED METAL CANOPY OVER WINDOW FOR SHADE ONLY, DIMENSIONS PER PLAN, SEE DETAIL 1 AND 2/A804-02
05-12	ROOF ACCESS LADDER WITH PLATFORM, SEE A803-02
05-13	TIE-ON STANCHION, S.S.D. AND 7/A803-02 FOR FLASHING AROUND PIPE
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02
22-04	PLUMBING VENT, S.P.D. AND DETAIL 7/A803-02 FOR FLASHING
48-01	PV PANEL, SEE PV DRAWINGS

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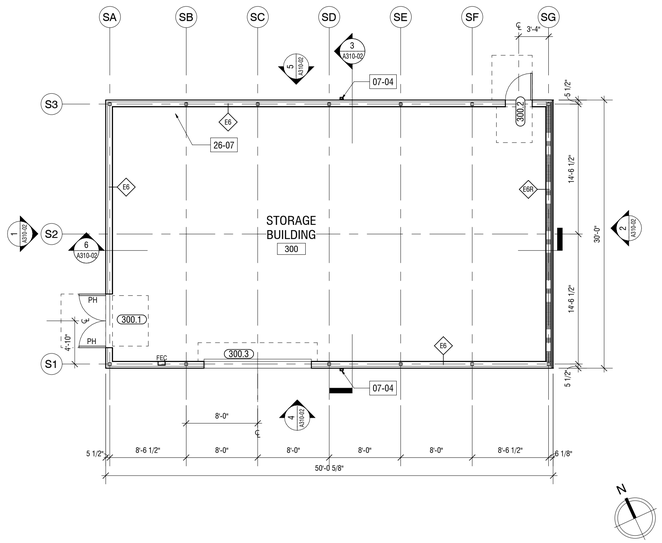
SHEET TITLE

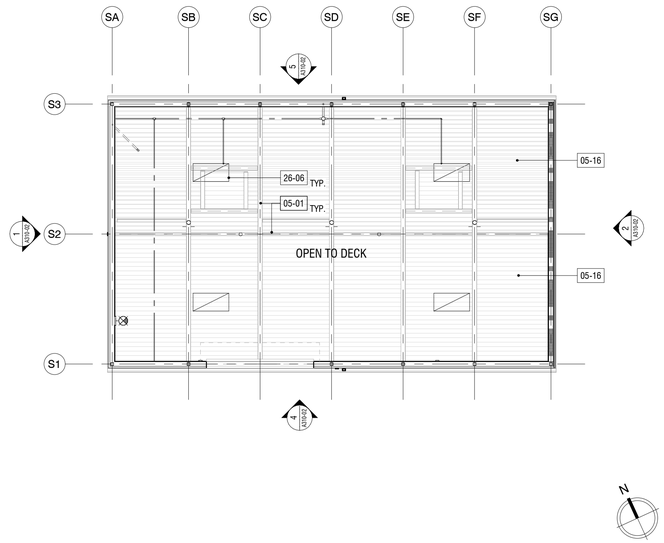
ROOF PLAN - MAIN BUILDING

SHEET NUMBER:

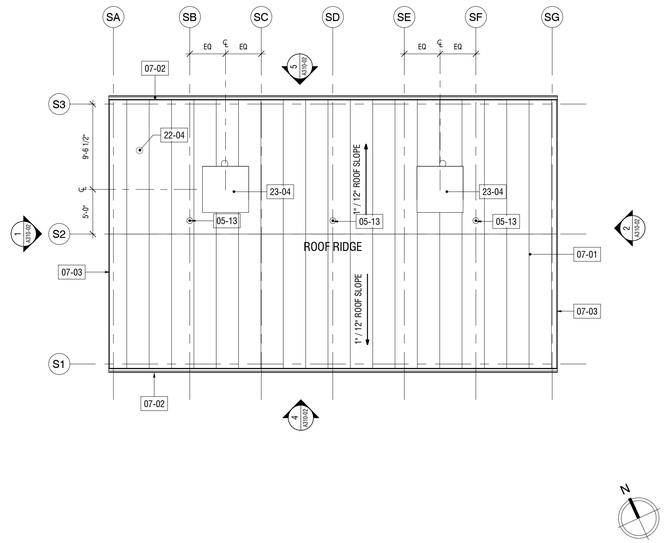
A202-02



1 STORAGE BUILDING FLOOR PLAN
1/8" = 1'-0"



2 STORAGE BUILDING RCP
1/8" = 1'-0"



3 STORAGE ROOF PLAN
1/8" = 1'-0"

FLOOR PLAN LEGEND

FEC	FIRE EXTINGUISHER CABINET - WITH UL RATED TYPE 2A-10B:C EXTINGUISHER EXTINGUISHER, SEE DETAIL 2/A900-02
	WALL - NON-RATED
	WALL - 1 HR RATED FIRE BARRIER
2'-0" EXT. 1'-6" INT. 1'-0" PH 5'-0" 4'-0"	DOOR ACCESSIBLE CLEARANCES SHOWN DASHED PH LABEL INDICATES PANIC HARDWARE REQUIRED

PLAN NOTES

1. REFER TO ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES
2. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATION OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
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KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.
05-13	TIE-ON STANCHION, S.S.D. AND 7/A803-02 FOR FLASHING AROUND PIPE
05-16	STRUCTURAL METAL DECK, S.S.D.
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02
07-04	DOWNSPOUT, SEE DETAIL 8/A800-02
22-04	PLUMBING VENT, S.P.D. AND DETAIL 7/A803-02 FOR FLASHING
23-04	ROOF MOUNTED MECHANICAL UNIT, S.M.D. MOUNTING AND FLASHING, SEE DETAIL 3/A803-02
26-06	LIGHT FIXTURE, S.E.D.
26-07	ELECTRICAL EQUIPMENT, S.E.D.

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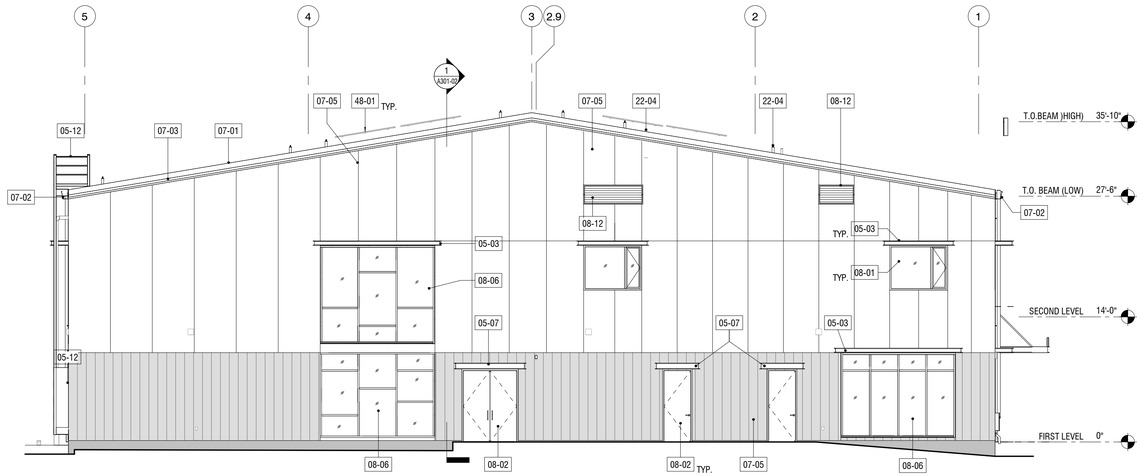
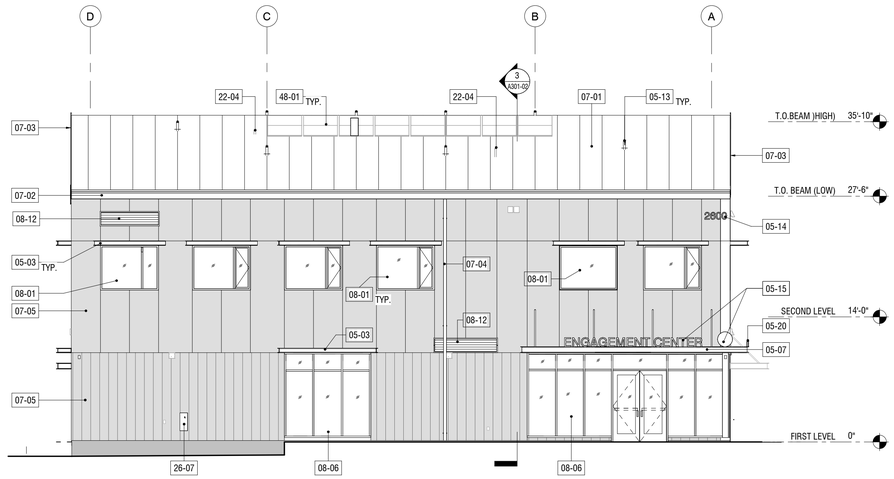
DSA SUBMITTAL

SHEET TITLE
FLOOR PLAN - STORAGE BUILDING

SHEET NUMBER:
A210-02



3 NORTH ELEVATION
1/8" = 1'-0"
1/A200-02



1 WEST ELEVATION
1/8" = 1'-0"
1/A200-02

4 SOUTH ELEVATION
1/8" = 1'-0"
1/A200-02

2 EAST ELEVATION
1/8" = 1'-0"
1/A200-02

ELEVATION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
2. DOORS, EXTERIOR FACING LOUVERS AND WINDOWS SHALL BE FLASHED AND SEALED, REFER TO A800 SERIES DETAILS.
3. PROVIDE FLASHING AND FLASHING COLLARS. SEAL ALL WALL AND ROOF PENETRATIONS. ALL PENETRATIONS THROUGH INSULATED BUILDING ENVELOPE SHALL BE PACKED WITH INSULATION.
4. REFER TO MECH. AND ELECTRICAL DRAWINGS FOR BALANCE OF INFORMATION AND LOCATION OF REGISTERS, VENTS AND ELECTRICAL COMPONENTS NOT SHOWN

KEYNOTE LEGEND

05-03	PERFORATED METAL CANOPY OVER WINDOW FOR SHADE ONLY, DIMENSIONS PER PLAN, SEE DETAIL 1 AND 2/A804-02
05-07	SOLID LID METAL CANOPY OVER DOOR, DIMENSIONS PER PLAN, SEE DETAILS 3 AND 6/A800-02
05-12	ROOF ACCESS LADDER WITH PLATFORM, SEE A803-02
05-13	TIE-ON STANCHION, S.S.D. AND 7/A803-02 FOR FLASHING AROUND PIPE
05-14	10" ANODIZED ALUMINUM NUMBER SIGN, SEE DETAIL 11/A800-02 FOR ATTACHMENT
05-15	12" ANODIZED ALUMINUM LETTER SIGN, SEE DETAIL 5/A804-02
05-17	ENTRY CANOPY, SEE DETAIL 3/A804-02
05-20	7" ANODIZED ALUMINUM LETTER SIGN, SEE DETAIL 5/A804-02
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02
07-04	DOWNSPOUT, SEE DETAIL 8/A800-02
07-05	2-1/2" THK. X 36" WIDE, 24 GA EXTERIOR FACE, 26 GA INTERIOR FACE INSULATED HORIZONTAL WALL PANEL PER DETAILS ON SHEET A801-02
08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-12	LOUVER WITH BLANKOFF PANEL AS REQ
21-02	FIRE SPRINKLER RISER, SEE FIRE PROTECTION DRAWINGS
22-04	PLUMBING VENT, S.P.D. AND DETAIL 7/A803-02 FOR FLASHING
26-07	ELECTRICAL EQUIPMENT, S.E.D.
48-01	PV PANEL, SEE PV DRAWINGS

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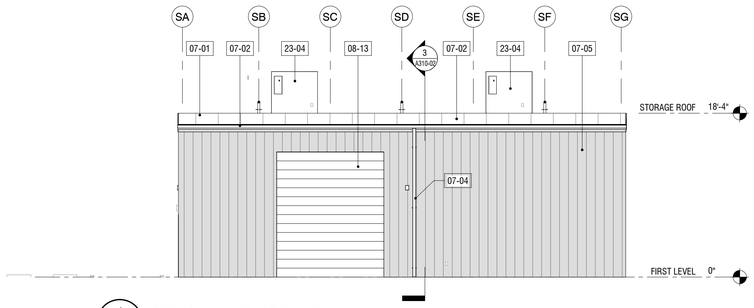
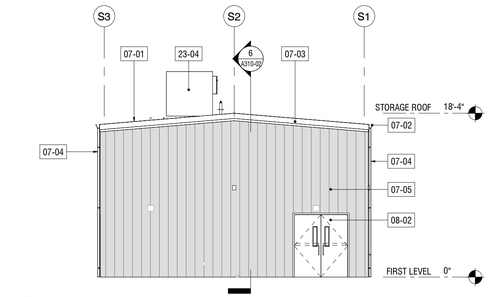
SHEET TITLE
EXTERIOR ELEVATIONS - MAIN BUILDING

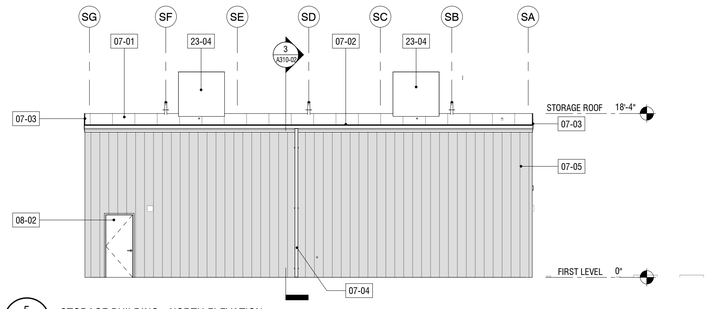
SHEET NUMBER:
A300-02



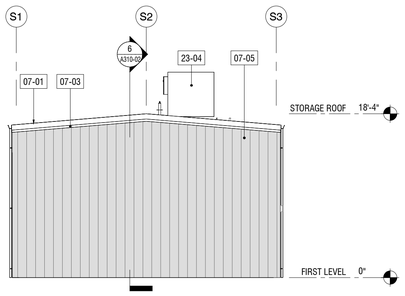
4 1/A200-02 STORAGE BUILDING - SOUTH ELEVATION
1/8" = 1'-0"



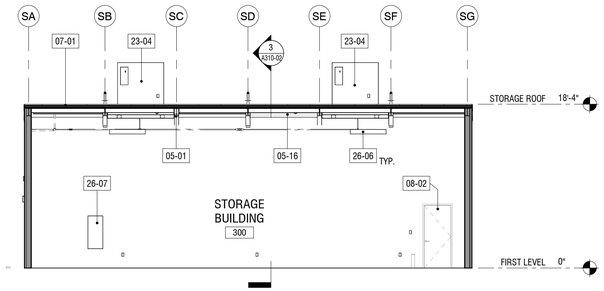
1 1/A210-02 STORAGE BUILDING - WEST ELEVATION
1/8" = 1'-0"



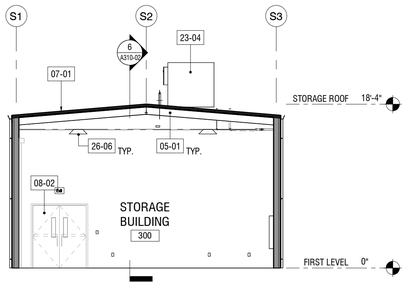
5 1/A200-02 STORAGE BUILDING - NORTH ELEVATION
1/8" = 1'-0"



2 1/A210-02 STORAGE BUILDING - EAST ELEVATION
1/8" = 1'-0"



6 1/A210-02 STORAGE BUILDING - SECTION 2
1/8" = 1'-0"



3 1/A210-02 STORAGE BUILDING - SECTION 1
1/8" = 1'-0"

SECTION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
2. DOORS, EXTERIOR FACING LOUVERS AND WINDOWS SHALL BE FLASHED AND SEALED AS SHOWN IN DETAIL.
3. PROVIDE FLASHING AND FLASHING COLLARS. SEAL ALL WALL AND ROOF PENETRATIONS. ALL PENETRATIONS THROUGH INSULATED BUILDING ENVELOPE SHALL BE PACKED WITH INSULATION.
4. PROVIDE FIRE STOPPING AT CONCEALED SPACES AS DEFINED IN CBC SEC. 718.
1. SEE FINISH SCHEDULE FOR FINISHES AND INFORMATION NOT SHOWN HERE.
2. REFER TO MECH. AND ELECTRICAL DRAWINGS FOR BALANCE OF INFORMATION AND LOCATION OF REGISTERS, VENTS AND ELECTRICAL COMPONENTS NOT SHOWN.

ELEVATION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
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KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.
05-16	STRUCTURAL METAL DECK, S.S.D.
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02
07-04	DOWNSPOUT, SEE DETAIL 8/A800-02
07-05	2-1/2" THK. X 36" WIDE, 24 GA EXTERIOR FACE, 26 GA INTERIOR FACE INSULATED HORIZONTAL WALL PANEL PER DETAILS ON SHEET A801-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-13	OVERHEAD COILING DOOR, SEE SCHEDULE ON A700-02 and DETAILS ON A805-02
23-04	ROOF MOUNTED MECHANICAL UNIT, S.M.D. MOUNTING AND FLASHING, SEE DETAIL 3/A803-02
26-06	LIGHT FIXTURE, S.E.D.
26-07	ELECTRICAL EQUIPMENT, S.E.D.

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

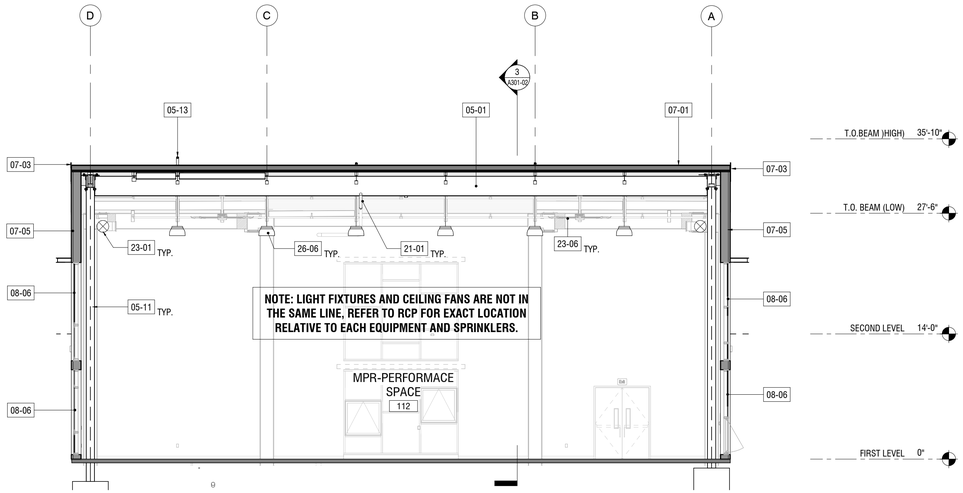
REVISIONS

REV	ISSUE	DATE	TO

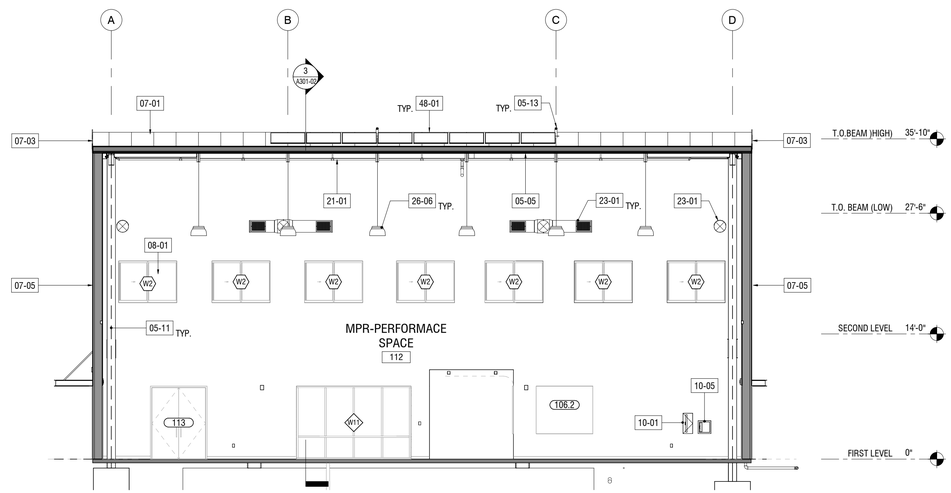
PHASE
DSA SUBMITTAL

SHEET TITLE
EXTERIOR ELEVATIONS - STORAGE BUILDING

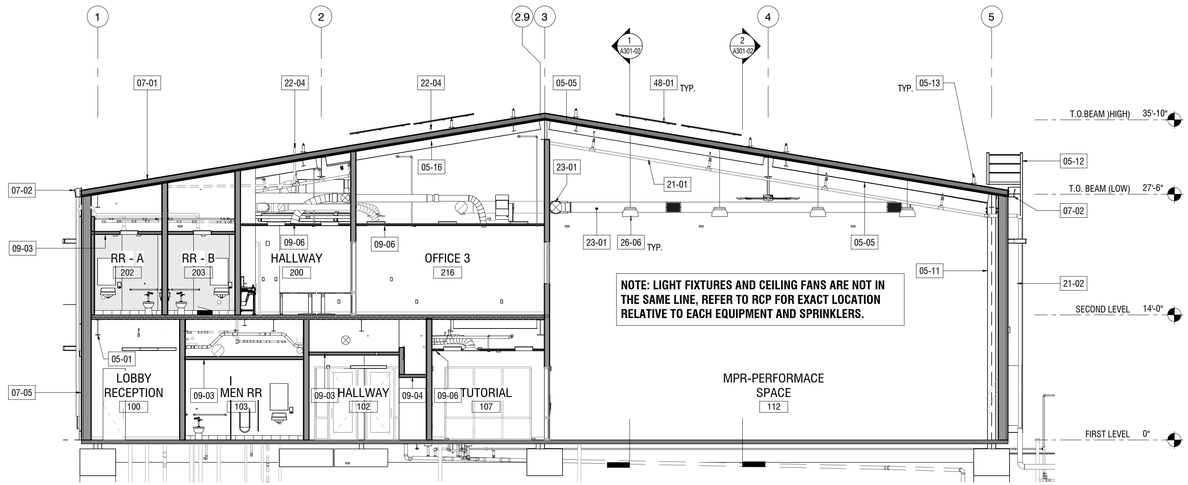
SHEET NUMBER:
A310-02



2 CROSS SECTION B-B
SHT 1/A200-02
1/8" = 1'-0"



1 CROSS SECTION A-A
SHT 1/A200-02
1/8" = 1'-0"



3 LONG SECTION C-C
SHT 1/A200-02
1/8" = 1'-0"

SECTION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.

2. DOORS, EXTERIOR FACING LOUVERS AND WINDOWS SHALL BE FLASHED AND SEALED, REFER TO A800 SERIES DETAILS.

3. PROVIDE FLASHING AND FLASHING COLLARS. SEAL ALL WALL AND ROOF PENETRATIONS. ALL PENETRATIONS THROUGH INSULATED BUILDING ENVELOPE SHALL BE PACKED WITH INSULATION.

4. PROVIDE FIRE STOPPING AT CONCEALED SPACES AS DEFINED IN CBC SEC. 718.

1. SEE FINISH SCHEDULE FOR FINISHES AND INFORMATION NOT SHOWN HERE.

2. REFER TO MECH. AND ELECTRICAL DRAWINGS FOR BALANCE OF INFORMATION AND LOCATION OF REGISTERS, VENTS AND ELECTRICAL COMPONENTS NOT SHOWN.

KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.	09-03	GYPSUM BOARD CEILING, S.S.D. FOR FRAMING AND SEE DETAILS A911-02
05-05	ACOUSTICAL PERFORATED STRUCTURAL METAL DECK, S.S.D.	09-04	GYPSUM BOARD SOFFIT, S.S.D. FOR FRAMING
05-11	STEEL COLUMN, S.S.D.	09-06	SUSPENDED ACOUSTICAL CEILING, SEE DETAILS A911-02
05-12	ROOF ACCESS LADDER WITH PLATFORM, SEE A803-02	10-01	FIRE EXTINGUISHER CABINET, SEE DETAIL 1/A900-02
05-13	TIE-ON STANCHION, S.S.D. AND 7/A803-02 FOR FLASHING AROUND PIPE	10-05	AED CABINET, SEE DETAIL 1/A900-02
05-16	STRUCTURAL METAL DECK, S.S.D.	21-01	FIRE SPRINKLER PIPE, SEE FIRE PROTECTION DRAWINGS
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02	21-02	FIRE SPRINKLER RISER, SEE FIRE PROTECTION DRAWINGS
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02	22-04	PLUMBING VENT, S.P.D. AND DETAIL 7/A803-02 FOR FLASHING
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02	23-01	HVAC DUCT, S.M.D.
07-05	2-1/2" THK. X 36" WIDE, 24 GA EXTERIOR FACE, 26 GA INTERIOR FACE INSULATED HORIZONTAL WALL PANEL PER DETAILS ON SHEET A801-02	23-06	7' DIAMETER HIGH VOLUME LOW SPEED TYPE CEILING FAN, SEE DETAIL 3/A901-02 AND S.M.D.
08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02	26-06	LIGHT FIXTURE, S.E.D.
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02	48-01	PV PANEL, SEE PV DRAWINGS

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yc+d ARCHITECTURE
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DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

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INCREMENT 2

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MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

BUILDING SECTIONS - MAIN BUILDING

SHEET NUMBER:

A301-02

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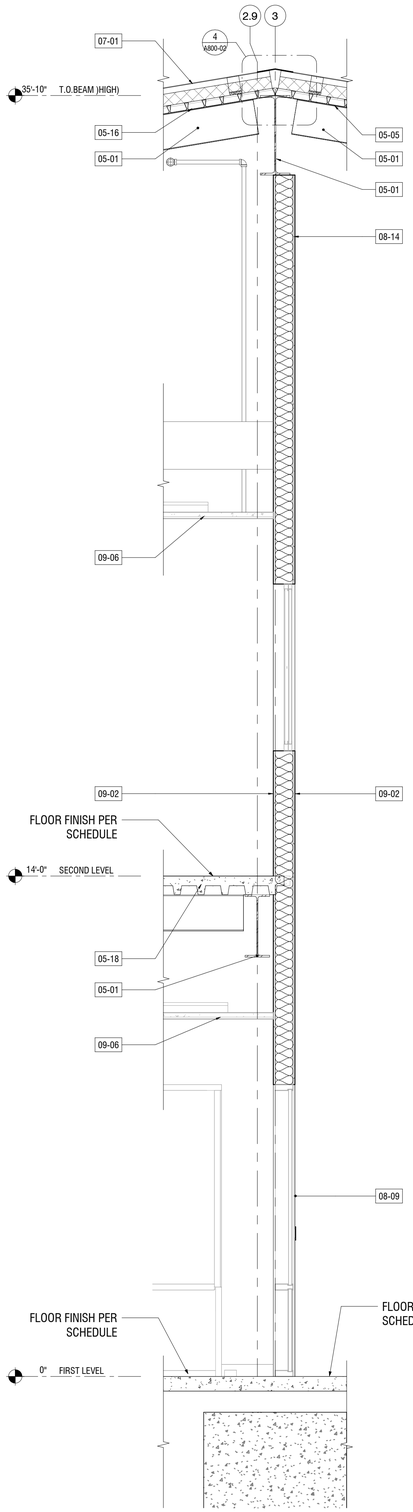
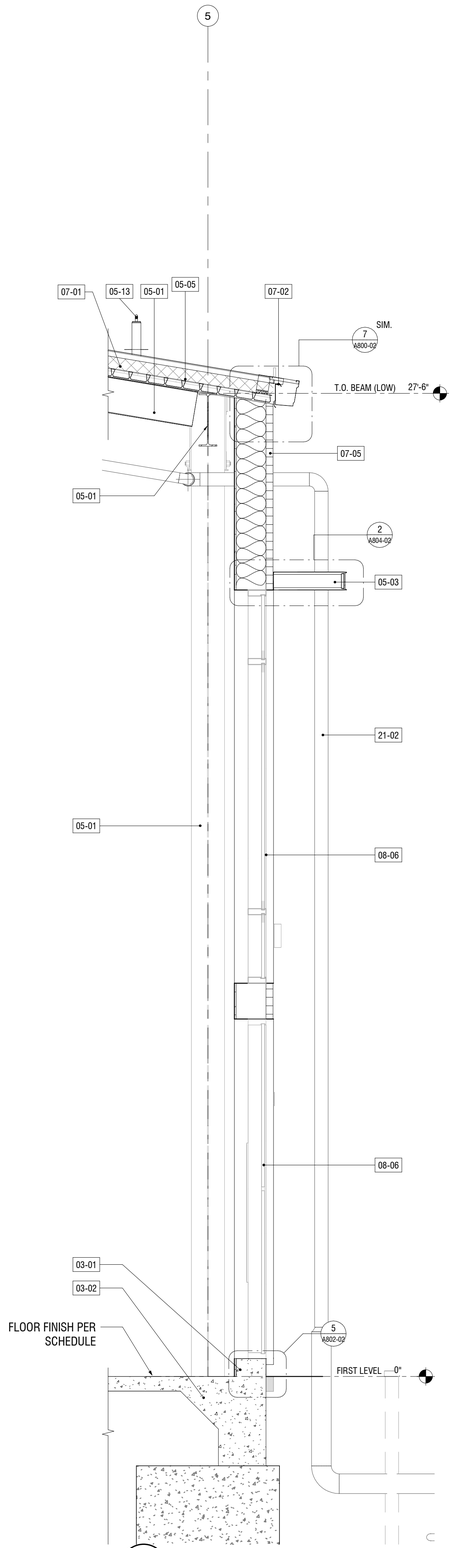
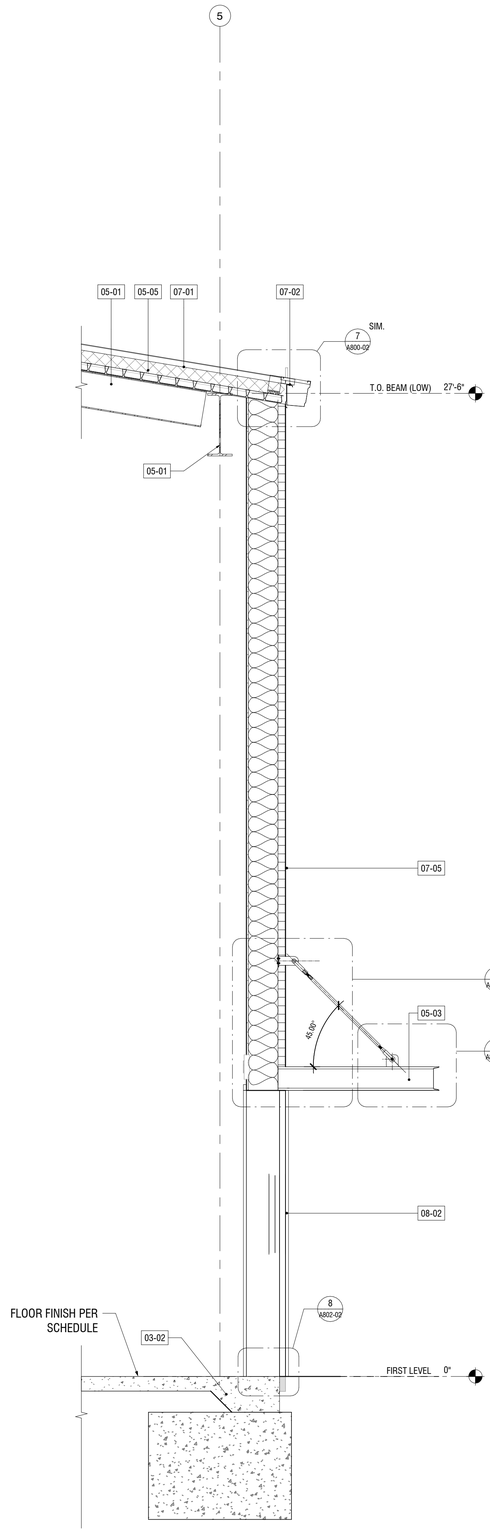


3 KEY/A400-02 WALL SECTION 3/A400
1/2" = 1'-0"



2 KEY/A400-02 WALL SECTION 2/A400
1/2" = 1'-0"



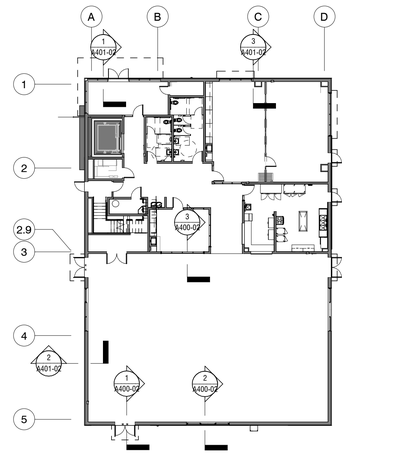
1 KEY/A400-02 WALL SECTION 1/A400
1/2" = 1'-0"

KEYNOTE LEGEND

03-01	6" HIGH CONCRETE CURB
03-02	CONCRETE FOUNDATION, SEE STRUCTURAL DRAWINGS
05-01	STEEL BEAM, S.S.D.
05-03	PERFORATED METAL CANOPY OVER WINDOW FOR SHADE ONLY, DIMENSIONS PER PLAN, SEE DETAIL 1 AND 2/A804-02
05-05	ACOUSTICAL PERFORATED STRUCTURAL METAL DECK, S.S.D.
05-13	TIE-ON STANCHION, S.S.D. AND 7/A803-02 FOR FLASHING AROUND PIPE
05-16	STRUCTURAL METAL DECK, S.S.D.
05-18	CONC. FILLED DECK, S.S.D.
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-05	2-1/2" THK. X 36" WIDE, 24 GA EXTERIOR FACE, 26 GA INTERIOR FACE INSULATED HORIZONTAL WALL PANEL PER DETAILS ON SHEET A801-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-14	INTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-06	SUSPENDED ACOUSTICAL CEILING, SEE DETAILS A911-02
21-02	FIRE SPRINKLER RISER, SEE FIRE PROTECTION DRAWINGS

SECTION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.



KEY WALL SECTION KEY
3/64" = 1'-0"

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yc+d ARCHITECTURE
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DARA DOURAGHI
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MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

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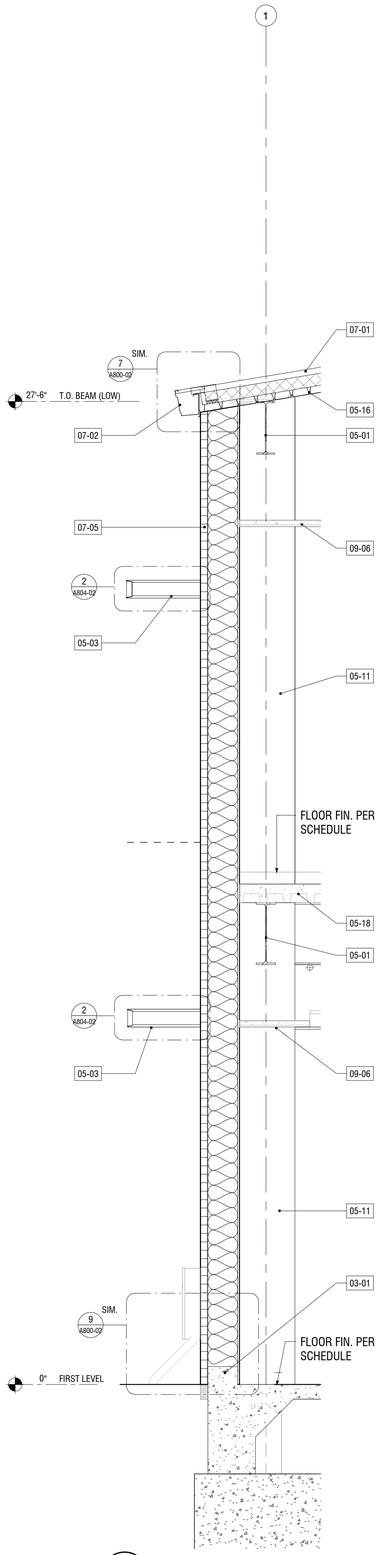
SHEET TITLE

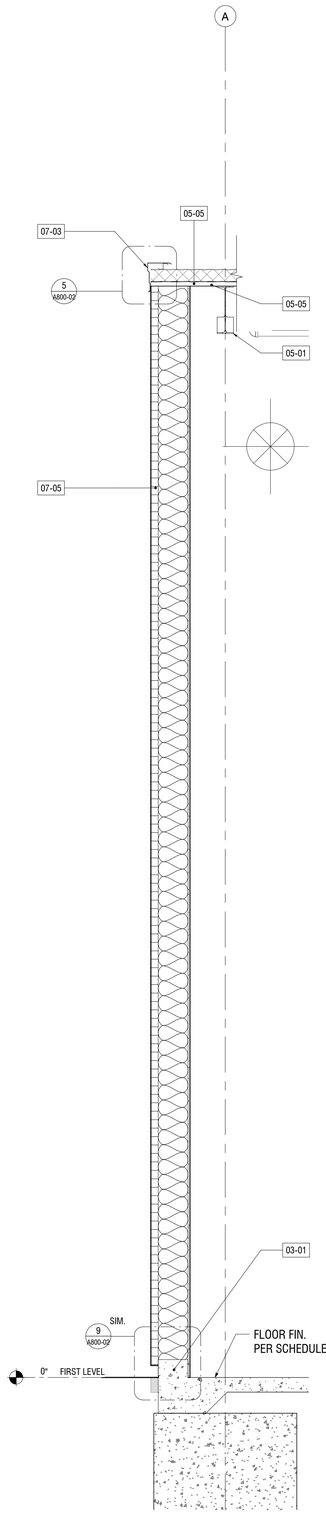
WALL SECTIONS - MAIN BUILDING

SHEET NUMBER:

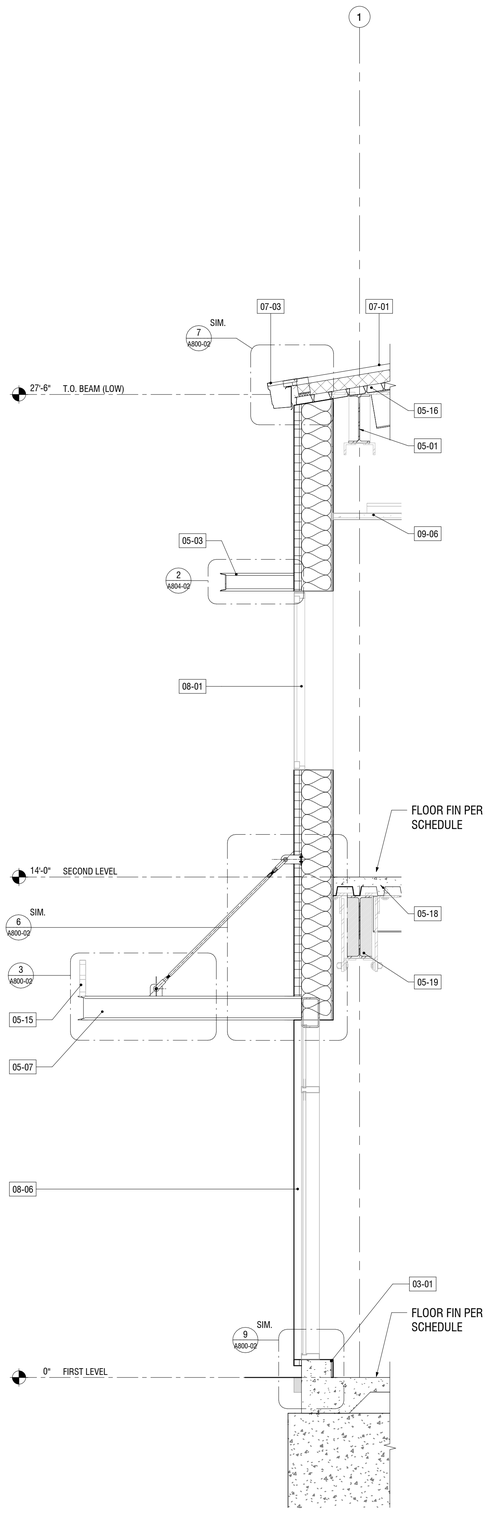
A400-02



3 KEY/A400-02 WALL SECTION 3/A401
1/2" = 1'-0"



2 KEY/A400-02 WALL SECTION 2/A401
1/2" = 1'-0"



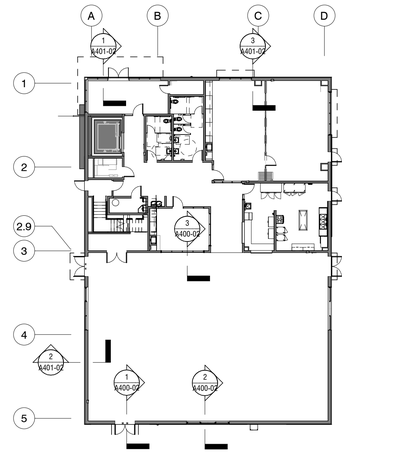
1 KEY/A400-02 WALL SECTION 1/A401
1/2" = 1'-0"

KEYNOTE LEGEND

03-01	6" HIGH CONCRETE CURB
05-01	STEEL BEAM, S.S.D.
05-03	PERFORATED METAL CANOPY OVER WINDOW FOR SHADE ONLY, DIMENSIONS PER PLAN, SEE DETAIL 1 AND 2/A804-02
05-05	ACOUSTICAL PERFORATED STRUCTURAL METAL DECK, S.S.D.
05-07	SOLID LID METAL CANOPY OVER DOOR, DIMENSIONS PER PLAN, SEE DETAILS 3 AND 6/A800-02
05-11	STEEL COLUMN, S.S.D.
05-15	12" ANODIZED ALUMINUM LETTER SIGN, SEE DETAIL 5/A804-02
05-16	STRUCTURAL METAL DECK, S.S.D.
05-18	CONC. FILLED DECK, S.S.D.
05-19	STEEL CONNECTION SYSTEM, S.S.D.
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02
07-05	2-1/2" THK. X 36" WIDE, 24 GA EXTERIOR FACE, 26 GA INTERIOR FACE INSULATED HORIZONTAL WALL PANEL PER DETAILS ON SHEET A801-02
08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
09-06	SUSPENDED ACOUSTICAL CEILING, SEE DETAILS A911-02

SECTION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.



KEY WALL SECTION KEY
3/64" = 1'-0"

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yc+d ARCHITECTURE
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MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

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SHEET TITLE

WALL SECTIONS - MAIN BUILDING

SHEET NUMBER:

A401-02

KEYNOTE LEGEND

05-08	STEEL PAN STAIR W/ CONCRETE TREADS, S.S.D AND SEE A920-02
05-09	PAINTED STEEL GUARDRAIL WITH HANDRAIL, SEE A920-02
05-10	WALL MOUNTED STEEL HANDRAIL, SEE A920-02
05-21	CONTRASTING STRIPE AT NOSING, SEE DETAILS 1, 3, 5/A920-02
22-02	MOP SINK, S.P.D.
22-03	WATER HEATER, S.P.D.

STAIR NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
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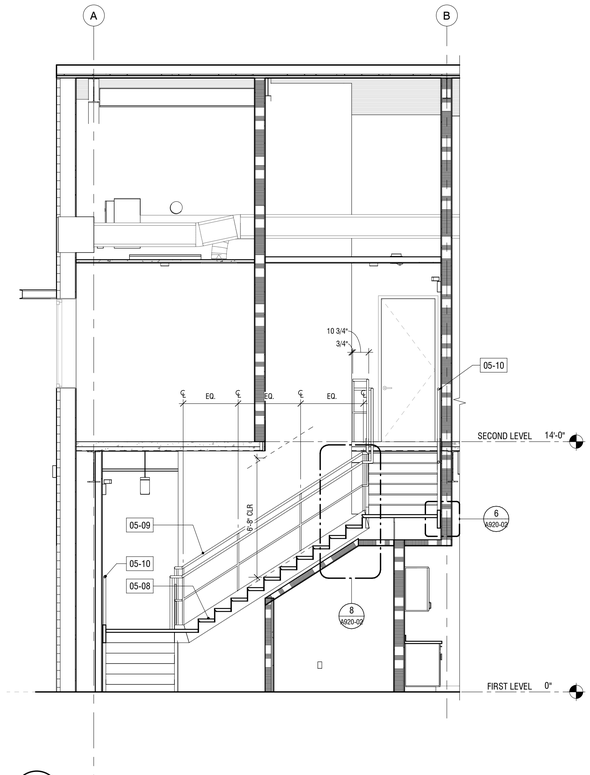
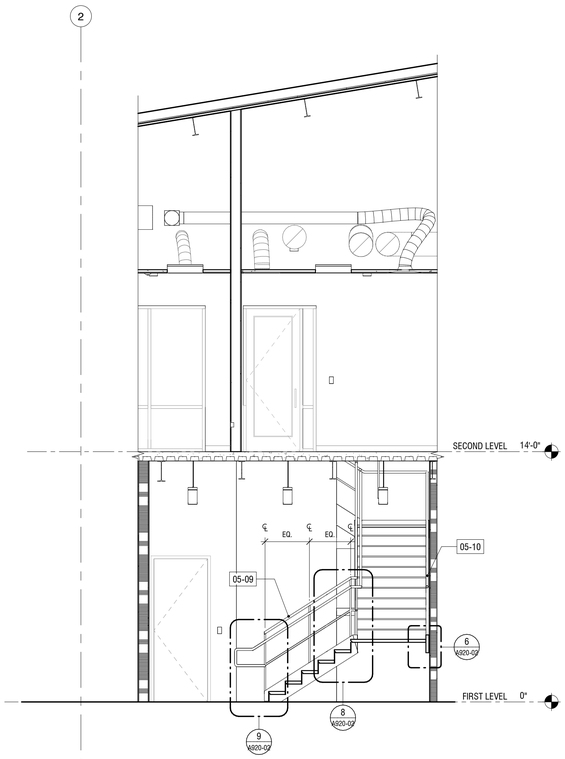
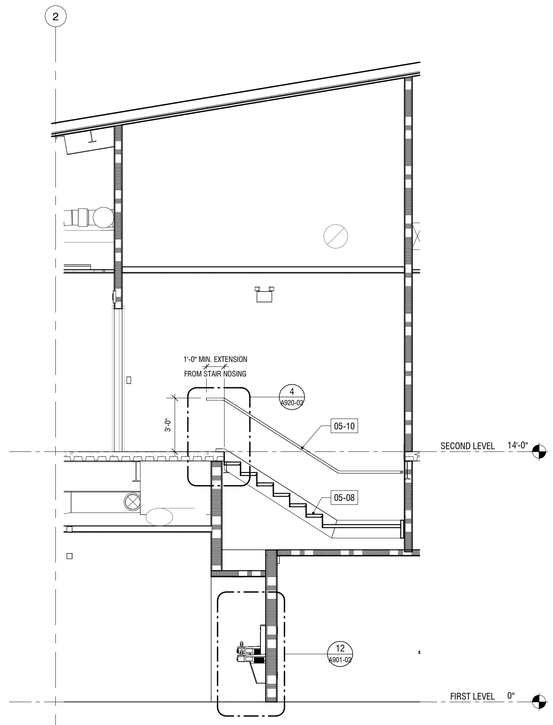


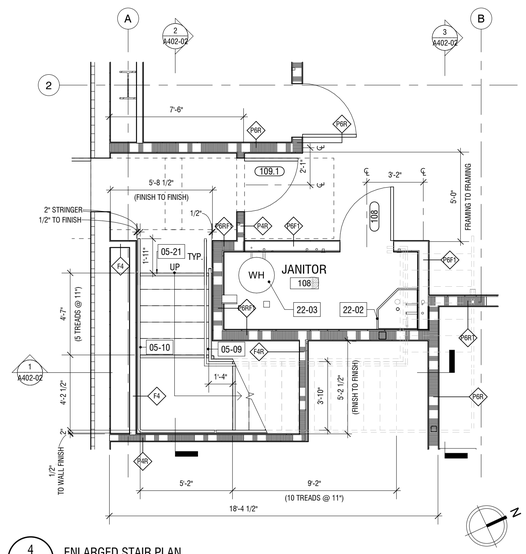
1 ENLARGED SECTION 1 - STAIRS
SEE 4/A402-02 1/4" = 1'-0"



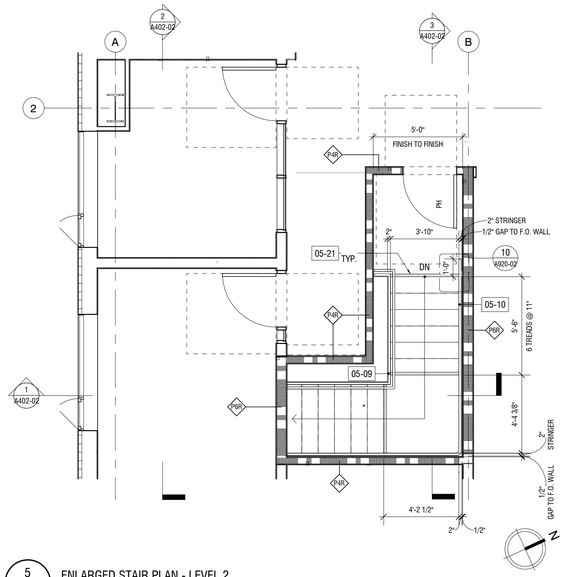
2 ENLARGED SECTION 2 - STAIRS
SEE 4/A402-02 1/4" = 1'-0"



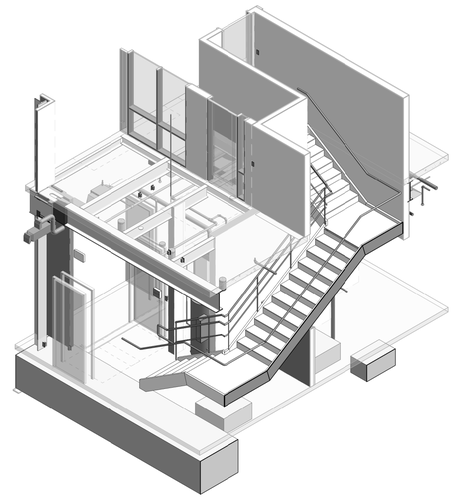
3 ENLARGED SECTION 3 - STAIRS
SEE 4/A402-02 1/4" = 1'-0"



4 ENLARGED STAIR PLAN
SEE 1/A200-02 1/4" = 1'-0"



5 ENLARGED STAIR PLAN - LEVEL 2
1/4" = 1'-0"



6 STAIR AXO (FOR REFERENCE ONLY)

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MERCED CITY SCHOOL DISTRICT

REVISIONS

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SHEET TITLE

ENLARGED STAIR PLANS & SECTIONS

SHEET NUMBER:

A402-02

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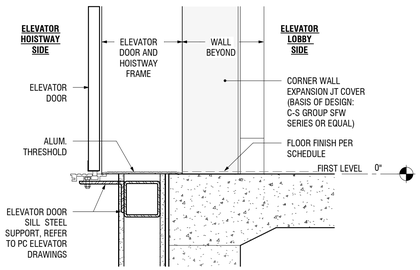
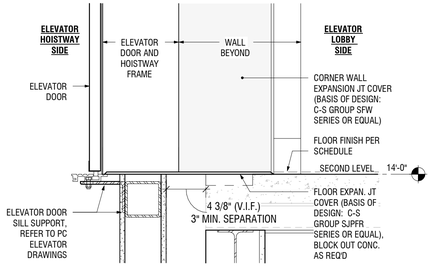
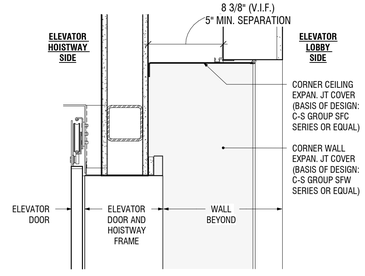


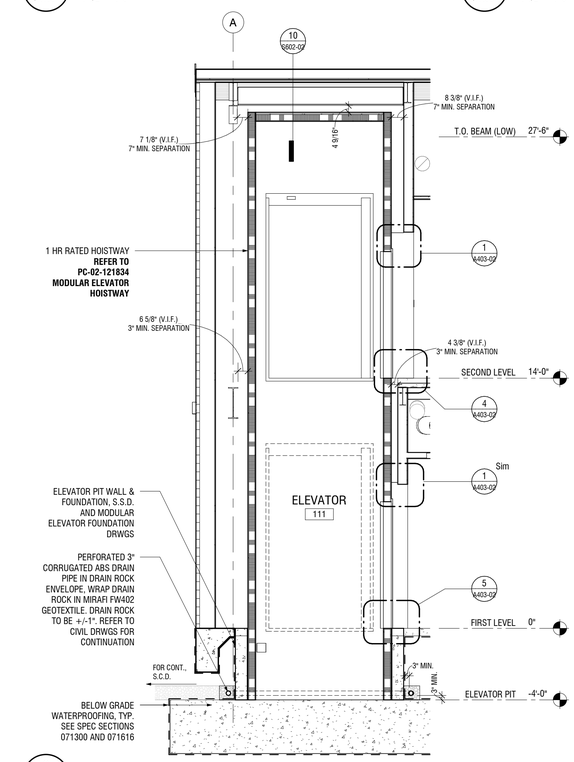
5 6/A403-02 ELEVATOR DOOR SILL - FIRST LEVEL
1 1/2" = 1'-0"



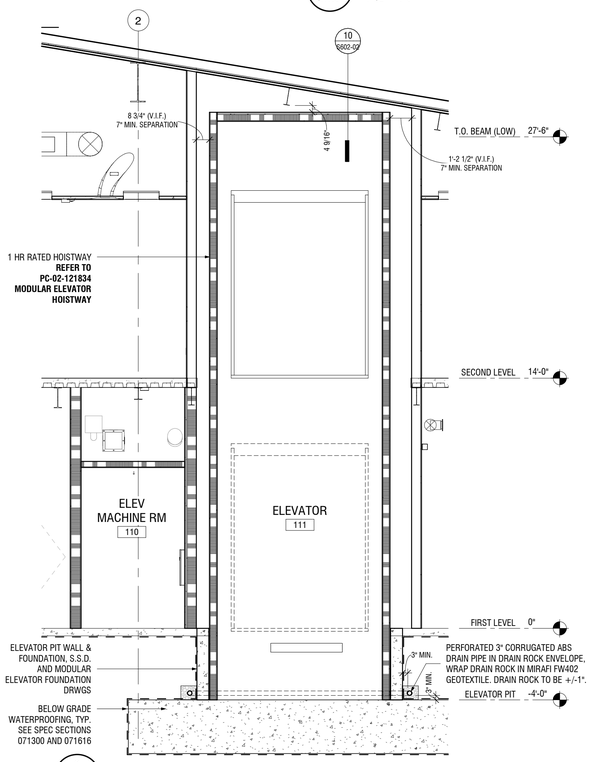
4 6/A403-02 ELEVATOR DOOR SILL - SECOND LEVEL
1 1/2" = 1'-0"



1 6/A403-02 ELEVATOR DOOR HEAD - SECOND LEVEL (SIM. FOR L1)
1 1/2" = 1'-0"



6 3/A403-02 ENLARGED SECTION - ELEVATOR
1/4" = 1'-0"



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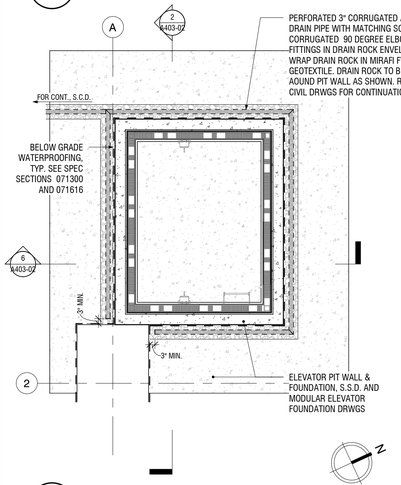
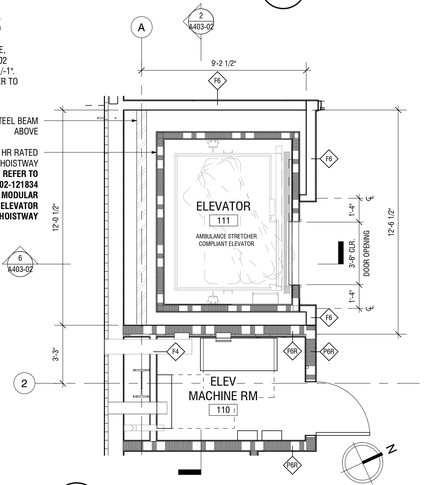
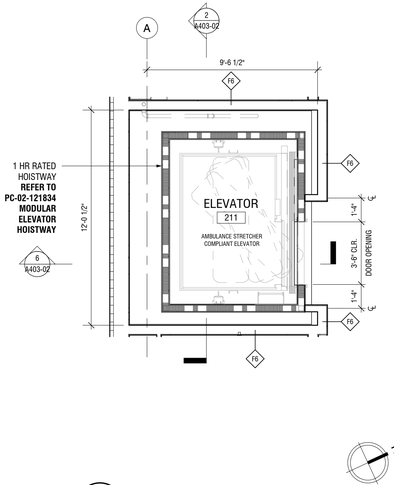
1/4" = 1'-0"



8 1/A300-02 ENLARGED PLAN - ELEVATOR PIT / FOUNDATION
1/4" = 1'-0"



7 1/A200-02 ENLARGED PLAN - ELEVATOR AND MECH ROOM - FIRST LEVEL
1/4" = 1'-0"



3 2/A200-02 ENLARGED PLAN - ELEVATOR - SECOND LEVEL
1/4" = 1'-0"

ELEVATOR NOTES

ELEVATORS PROVIDED FOR PASSENGERS SHALL COMPLY WITH CBC 11B-206.6 AND 11B-407. WHERE MULTIPLE ELEVATORS ARE PROVIDED, EACH ELEVATOR SHALL COMPLY WITH 11B-407.

1. GENERAL – 11B-407.1

A) ELEVATORS SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1 AND SHALL COMPLY WITH 11B-407 AND WITH ASME A17.1.

B) ELEVATOR OPERATION SHALL BE AUTOMATIC.

C) WHEN THE ONLY ELEVATORS PROVIDED FOR USE BY THE PUBLIC AND EMPLOYEES ARE COMBINATION PASSENGER AND FREIGHT ELEVATORS, THEY SHALL COMPLY WITH 11B-407 AND ASME A17.1.

2. ELEVATOR LANDING REQUIREMENTS – 11B-407.2 AND 1007

A) CALL CONTROLS – WHERE ELEVATOR CALL BUTTONS OR KEYPADS ARE PROVIDED, THEY SHALL COMPLY WITH 11B-407.2.1 AND 11B-309.4.
HEIGHT - CALL BUTTONS AND KEYPADS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 11B-308, MEASURED TO THE CENTERLINE OF THE HIGHEST OPERABLE PART.
- SIZE AND SHAPE - CALL BUTTONS SHALL HAVE SQUARE SHOULDERS, BE 3/4 INCH MINIMUM IN THE SMALLEST DIMENSION AND SHALL BE RAISED 1/8 INCH PLUS OR MINUS 1/32 INCH ABOVE THE SURROUNDING SURFACE. THE BUTTONS SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE.
- CLEAR FLOOR OR GROUND SPACE - A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 11B-305 SHALL BE PROVIDED AT CALL CONTROLS.
- LOCATION - THE CALL BUTTON THAT DESIGNATES THE UP DIRECTION SHALL BE LOCATED ABOVE THE CALL BUTTON THAT DESIGNATES THE DOWN DIRECTION.
- SIGNALS - CALL BUTTONS SHALL HAVE VISIBLE SIGNALS THAT WILL ACTIVATE WHEN EACH CALL IS REGISTERED AND WILL EXTINGUISH WHEN EACH CALL IS ANSWERED. CALL BUTTONS SHALL BE INTERNALLY ILLUMINATED WITH A WHITE LIGHT OVER THE ENTIRE SURFACE OF THE BUTTON.
- KEYPADS - KEYPADS, WHERE PROVIDED, SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH 11B-407.4.7.2.

B) HALL SIGNALS – HALL SIGNALS, INCLUDING IN-CAR SIGNALS, SHALL COMPLY WITH 11B-407.2.2
- VISIBLE AND AUDIBLE SIGNALS - A VISIBLE AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE TO INDICATE WHICH CAR IS ANSWERING A CALL AND THE CAR'S DIRECTION OF TRAVEL. WHERE IN-CAR SIGNALS ARE PROVIDED, THEY SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL BUTTONS.
- VISIBLE SIGNALS – VISIBLE SIGNAL FIXTURES SHALL BE CENTERED AT 72 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. THE VISIBLE SIGNAL ELEMENTS SHALL BE A MINIMUM 2 1/2 INCHES HIGH BY 2 1/2 INCHES WIDE. SIGNALS SHALL BE VISIBLE FROM THE FLOOR AREA ADJACENT TO THE HALL CALL BUTTON.
- AUDIBLE SIGNALS – AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION, OR SHALL HAVE VERBAL ANNUNCIATORS THAT INDICATE THE DIRECTION OF ELEVATOR CAR TRAVEL. AUDIBLE SIGNALS SHALL HAVE A FREQUENCY OF 1500 HZ MAXIMUM. VERBAL ANNUNCIATORS SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM AND 3000 HZ MAXIMUM. THE AUDIBLE SIGNAL AND VERBAL MEASURED AT THE HALL CALL BUTTONS.

C) HOISTWAY SIGNS – SIGNS AT ELEVATOR HOISTWAYS SHALL COMPLY WITH 11B-407.2.3.
- FLOOR DESIGNATION – FLOOR DESIGNATIONS COMPLYING WITH 11B-703.2 AND 11B-703.4.1 SHALL BE PROVIDED ON BOTH JAMBS OF ELEVATOR HOISTWAY ENTRANCES. FLOOR DESIGNATIONS SHALL BE PROVIDED IN BOTH RAISED CHARACTERS AND BRAILLE. RAISED CHARACTERS SHALL BE 2 INCHES HIGH. A RAISED STAR, PLACED TO THE LEFT OF THE FLOOR DESIGNATION, SHALL BE PROVIDED ON BOTH JAMBS AT THE MAIN ENTRY LEVEL. THE OUTSIDE DIAMETER OF THE STAR SHALL BE 2 INCHES AND ALL POINTS SHALL BE OF EQUAL LENGTH. RAISED CHARACTERS, INCLUDING THE STAR, SHALL BE WHITE ON A BLACK BACKGROUND. BRAILLE COMPLYING WITH 11B-703.3 SHALL BE PLACED BELOW THE CORRESPONDING RAISED CHARACTERS AND THE STAR. THE BRAILLE TRANSLATION FOR THE STAR SHALL BE "MAIN". APPLIED PLATES ARE ACCEPTABLE IF THEY ARE PERMANENTLY FIXED TO THE JAMB.

D) TWO-WAY COMMUNICATION – 1009.8
- PROVIDE A TWO-WAY COMMUNICATION SYSTEM WITH BOTH AUDIBLE AND VISIBLE SIGNALS AT THE ELEVATOR LANDING ON EACH ACCESSIBLE FLOOR THAT IS ONE OR MORE STORIES ABOVE OR BELOW THE STORY OF EXIT DISCHARGE. SUCH SYSTEMS ARE NOT REQUIRED AT ELEVATOR LANDINGS WHERE THEY ARE PROVIDED WITHIN AREAS OF REFUGE IN ACCORDANCE WITH 1009.6.5
- DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM AND THE INSTRUCTIONS FOR SUMMONING ASSISTANCE VIA SUCH SYSTEM AND WRITTEN IDENTIFICATION OF THE SPECIFIC STORY, FLOOR LOCATION AND BUILDING ADDRESS OR OTHER BUILDING IDENTIFIER SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM. 1009.8.2 (SHOW PLAN REVIEWER, ON FLOOR PLANS AND ELEVATIONS, WITH REFERENCE TO DETAILS, THE LOCATIONS AND CONTENTS OF SUCH POSTED DIRECTIONS)

E) DIRECTIONAL SIGNAGE - 1009.10
- PROVIDE A DIRECTIONAL SIGNAGE COMPLYING WITH 11B-703.5 AT ELEVATOR LANDINGS INDICATING THE LOCATIONS OF THE OTHER MEANS OF EGRESS AND WHICH ARE ACCESSIBLE MEANS OF EGRESS.

3. ELEVATOR DOOR REQUIREMENTS – 11B-407.3

A) TYPE – ELEVATOR DOORS SHALL BE THE HORIZONTAL SLIDING TYPE. CAR GATES SHALL BE PROHIBITED.

B) OPERATION – ELEVATOR HOISTWAY AND CAR DOORS SHALL OPEN AND CLOSE AUTOMATICALLY.

C) REOPENING DEVICE – ELEVATOR DOORS SHALL BE PROVIDED WITH A REOPENING DEVICE COMPLYING WITH 11B-407.3.3 THAT SHALL STOP AND REOPEN A CAR DOOR AND HOISTWAY DOOR AUTOMATICALLY IF THE DOOR BECOMES OBSTRUCTED BY AN OBJECT OR PERSON.
- HEIGHT – THE DEVICE SHALL BE ACTIVATED BY SENSING AN OBSTRUCTION PASSING THROUGH THE OPENING AT 5 INCHES NOMINAL AND 29 INCHES NOMINAL ABOVE THE FINISH FLOOR.
- CONTACT – THE DEVICE SHALL NOT REQUIRE PHYSICAL CONTACT TO BE ACTIVATED, ALTHOUGH CONTACT IS PERMITTED TO OCCUR BEFORE THE DOOR REVERSES.
- DURATION – DOOR REOPENING DEVICES SHALL REMAIN EFFECTIVE FOR 20 SECONDS MINIMUM.

D) DOOR AND SIGNAL TIMING – THE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING A CALL UNTIL THE DOORS OF THAT CAR START TO CLOSE SHALL BE CALCULATED FROM THE FOLLOWING EQUATION:

$$T = D/(1.5\ FT/S)\ OR\ T = D/(457\ MM/S) = 5\ SECONDS\ MINIMUM\ WHERE$$

T EQUALS THE TOTAL TIME IN SECONDS AND D EQUALS THE DISTANCE (IN FEET OR MILLIMETERS) FROM THE POINT IN THE LOBBY OR CORRIDOR 60 INCHES DIRECTLY IN FRONT OF THE FARTHEST CALL BUTTON CONTROLLING THAT CAR TO THE CENTERLINE OF ITS HOISTWAY DOOR.

E) DOOR DELAY – ELEVATOR DOORS SHALL REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL FOR 5 SECONDS MINIMUM.

F) WIDTH – THE WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH TABLE 11B-407.4.1.

4. ELEVATOR CAR REQUIREMENTS – 11B-407.4

A) CAR DIMENSIONS – INSIDE DIMENSIONS OF ELEVATOR CARS AND CLEAR WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH TABLE 407.4.1. WHERE ELEVATORS ARE PROVIDED IN BUILDINGS FOUR OR MORE STORIES ABOVE, OR FOUR OR MORE STORIES BELOW, GRADE PLANE, NOT FEWER THAN ONE ELEVATOR SHALL BE PROVIDED FOR FIRE DEPARTMENT EMERGENCY ACCESS TO ALL FLOORS (80" X 54" INSIDE CAR DIMENSIONS OR OTHERWISE ACCOMMODATE REQUIREMENT) PER 3002.4 AND 3002.4.3A.

B) FLOOR SURFACES – FLOOR SURFACES IN ELEVATOR CARS SHALL COMPLY WITH 11B-302 AND 11B-303.

C) PLATFORM TO HOISTWAY CLEARANCE – THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND THE EDGE OF ANY HOISTWAY LANDING SHALL BE 1 1/4 INCHES MAXIMUM IN COMPLIANCE WITH 11B-407.4.3.

D) LEVELING – EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING AND MAINTAIN THE CAR AT FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2 INCH UNDER RATED LOADING TO ZERO LOADING CONDITIONS.

E) ILLUMINATION – THE LEVEL OF ILLUMINATION AT THE CAR CONTROLS, PLATFORM, CAR THRESHOLD AND CAR LANDING SILL SHALL BE 5 FOOT CANDLES MINIMUM.

F) ELEVATOR CAR CONTROLS – WHERE PROVIDED, THEY SHALL COMPLY WITH 11B-407.4.6 AND 11B-309.4.
- LOCATION – CONTROLS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 11B-308.
- BUTTONS – CAR CONTROL BUTTONS WITH FLOOR DESIGNATIONS SHALL COMPLY WITH THE FOLLOWING:
  1. SIZE AND SHAPE – BUTTONS SHALL HAVE SQUARE SHOULDERS, BE 3/4 INCH MINIMUM IN THE SMALLEST DIMENSION AND BE RAISED 1/8 INCH PLUS OR MINUS 1/32 INCH ABOVE THE SURROUNDING SURFACE.
  2. ARRANGEMENT – BUTTONS SHALL BE ARRANGED WITH NUMBERS IN ASCENDING ORDER. WHEN TWO OR MORE COLUMNS OF BUTTONS ARE PROVIDED THEY SHALL READ FROM LEFT TO RIGHT.
  3. ILLUMINATION – CAR CONTROL BUTTONS SHALL BE ILLUMINATED.
  4. OPERATION – CAR CONTROL BUTTONS SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE.
- KEYPADS – CAR CONTROL KEYPADS SHALL BE IN A STANDARD TELEPHONE KEYPAD ARRANGEMENT AND SHALL COMPLY WITH 11B-407.4.7.2.
- EMERGENCY CONTROLS – EMERGENCY CONTROLS SHALL COMPLY WITH 11B-407.4.6.4.
  1. HEIGHT – EMERGENCY CONTROL BUTTONS SHALL HAVE THEIR CENTERLINES 35 INCHES MINIMUM ABOVE THE FINISH FLOOR.
  2. LOCATION – EMERGENCY CONTROLS, INCLUDING THE EMERGENCY ALARM, SHALL BE GROUPED AT THE BOTTOM OF THE PANEL.

G) DESIGNATIONS AND INDICATORS OF CAR CONTROLS – THEY SHALL COMPLY WITH 11B-407.4.7.
- BUTTONS – CAR CONTROL BUTTONS SHALL COMPLY WITH 11B-407.4.7.1.
  1. TYPE – CONTROL BUTTONS SHALL BE IDENTIFIED BY RAISED CHARACTERS OR SYMBOLS, WHITE ON A BLACK BACKGROUND, COMPLYING WITH 11B-703.2 AND BRAILLE COMPLYING WITH 11B-703.3.
  2. LOCATION – RAISED CHARACTERS OR SYMBOLS AND BRAILLE DESIGNATIONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON TO WHICH THE DESIGNATIONS APPLY.
  3. SYMBOLS – THE CONTROL BUTTON FOR THE EMERGENCY STOP, ALARM, DOOR OPEN, DOOR CLOSE, MAIN ENTRY FLOOR, AND PHONE, SHALL BE IDENTIFIED WITH RAISED SYMBOLS AND BRAILLE AS SHOWN IN TABLE 11B-407.4.7.1.3.
     A. VISIBLE INDICATORS – BUTTONS WITH FLOOR DESIGNATIONS SHALL BE PROVIDED WITH VISIBLE INDICATORS TO SHOW THAT A CALL HAS BEEN REGISTERED. THE VISIBLE INDICATION SHALL EXTINGUISH WHEN THE CAR ARRIVES AT THE DESIGNATED FLOOR.
     B. BUTTON SPACING – A MINIMUM CLEAR SPACE OF 3/8 INCH OR OTHER SUITABLE MEANS OF SEPARATION SHALL BE PROVIDED BETWEEN ROWS OF CONTROL BUTTONS.
  4. KEYPADS – KEYPADS SHALL BE IDENTIFIED BY CHARACTERS COMPLYING WITH 11B-703.5 AND SHALL BE CENTERED ON THE CORRESPONDING KEYPAD BUTTON. THE NUMBER FIVE KEY SHALL HAVE A SINGLE RAISED DOT. THE DOT SHALL BE 0.118 INCH TO 0.120 INCH BASE DIAMETER AND IN OTHER ASPECTS COMPLY WITH TABLE 11B-703.3.1.

H) CAR POSITION INDICATORS – AUDIBLE AND VISIBLE CAR POSITION INDICATORS SHALL BE PROVIDED IN ELEVATOR CARS.
- VISIBLE INDICATORS – VISIBLE INDICATORS SHALL COMPLY WITH 11B-407.4.8.1.
  1. SIZE – CHARACTERS SHALL BE 1/2 INCH HIGH MINIMUM.
  2. LOCATION – INDICATORS SHALL BE LOCATED ABOVE THE CAR CONTROL PANEL OR ABOVE THE DOOR.
  3. FLOOR ARRIVAL – AS THE CAR PASSES A FLOOR AND WHEN A CAR STOPS AT A FLOOR SERVED BY THE ELEVATOR, THE CORRESPONDING CHARACTER SHALL ILLUMINATE.
- AUDIBLE INDICATORS – AUDIBLE INDICATORS SHALL COMPLY WITH 11B-407.4.8.2.
  1. SIGNAL TYPE – THE SIGNAL SHALL BE AN AUTOMATIC VERBAL ANNUNCIATOR WHICH ANNOUNCES THE FLOOR AT WHICH THE CAR IS ABOUT TO STOP.
  2. SIGNAL LEVEL – THE VERBAL ANNUNCIATOR SHALL BE 10 DB MINIMUM ABOVE AMBIENT, BUT SHALL NOT EXCEED 80 DB, MEASURED AT THE ANNUNCIATOR.
  3. FREQUENCY – THE VERBAL ANNUNCIATOR SHALL HAVE A FREQUENCY OF 300 HZ MINIMUM TO 3000 HZ MAXIMUM.

I) EMERGENCY COMMUNICATION – EMERGENCY TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH 11B-308. RAISED SYMBOLS OR CHARACTERS, WHITE ON A BLACK BACKGROUND, AND BRAILLE SHALL BE PROVIDED ADJACENT TO THE DEVICE AND SHALL COMPLY WITH 11B-703.2 AND 11B-703.3. EMERGENCY TWO-WAY COMMUNICATION SYSTEMS BETWEEN THE ELEVATOR AND A POINT OUTSIDE THE HOISTWAY SHALL COMPLY WITH ASME A17.1.

J) SUPPORT RAIL – SUPPORT RAILS SHALL BE PROVIDED ON AT LEAST ONE WALL OF THE CAR.
- LOCATION – CLEARANCE BETWEEN SUPPORT RAILS AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM. TOP OF SUPPORT RAILS SHALL BE 31 INCHES MINIMUM TO 33 INCHES MAXIMUM ABOVE THE FLOOR OF THE CAR. THE ENDS OF THE SUPPORT RAIL SHALL BE 6 INCHES MAXIMUM FROM ADJACENT WALLS.
- SURFACES – SUPPORT RAILS SHALL BE SMOOTH AND ANY SURFACE ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
- STRUCTURAL STRENGTH – ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SUPPORT RAIL, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

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INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

ELEVATOR PLAN AND SECTION

SHEET NUMBER:

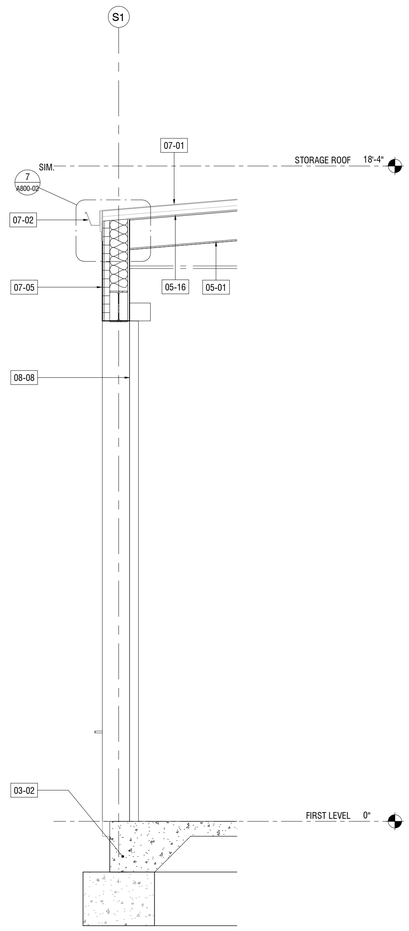
A403-02

KEYNOTE LEGEND

03-01	6" HIGH CONCRETE CURB
03-02	CONCRETE FOUNDATION, SEE STRUCTURAL DRAWINGS
05-01	STEEL BEAM, S.S.D.
05-16	STRUCTURAL METAL DECK, S.S.D.
07-01	INSULATED CLASS 'A' STANDING METAL SEAM ROOF PANEL, SEE DETAILS 4,5, AND 7/A800-02
07-02	ROOF GUTTER, SEE DETAIL 7/A800-02
07-03	ROOF FASCIA, SEE DETAIL 5/A800-02
07-04	DOWNSPOUT, SEE DETAIL 8/A800-02
07-05	2-1/2" THK. X 36" WIDE, 24 GA EXTERIOR FACE, 26 GA INTERIOR FACE INSULATED HORIZONTAL WALL PANEL PER DETAILS ON SHEET A801-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-08	METAL ROLL-UP DOOR, SEE SCHEDULE ON A700-02

SECTION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.



4 KEY/A410-02 WALL SECTION 4/A410
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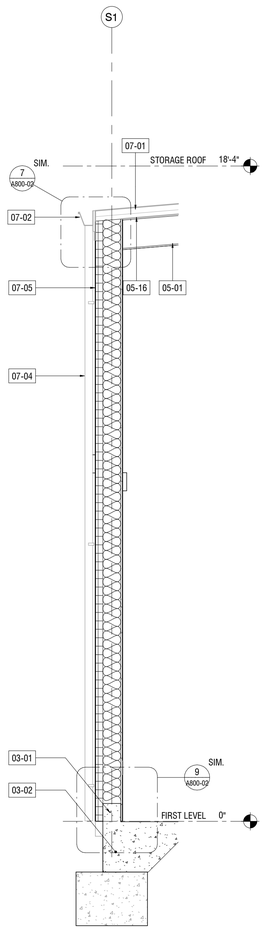

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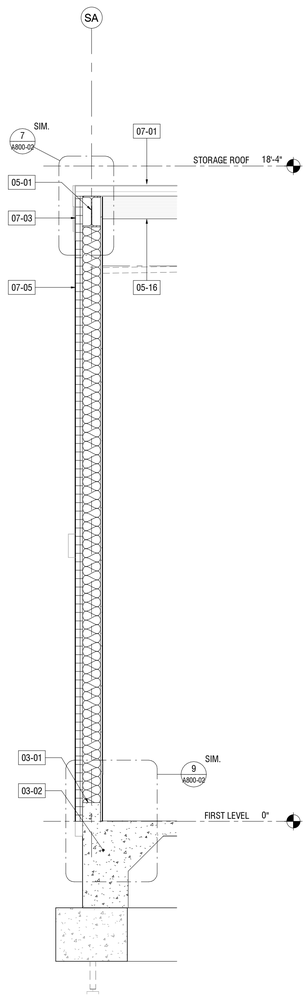

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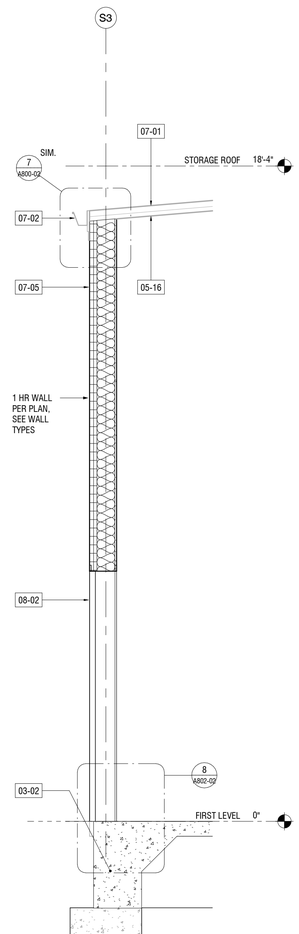

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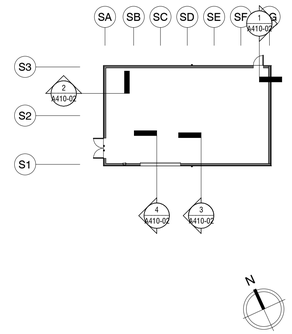

KEY WALL SECTION KEY
3/64" = 1'-0"

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SHEET TITLE

WALL SECTIONS - STORAGE BUILDING

SHEET NUMBER:

A410-02

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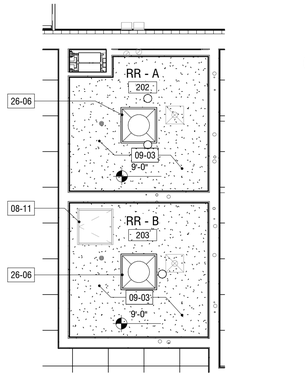
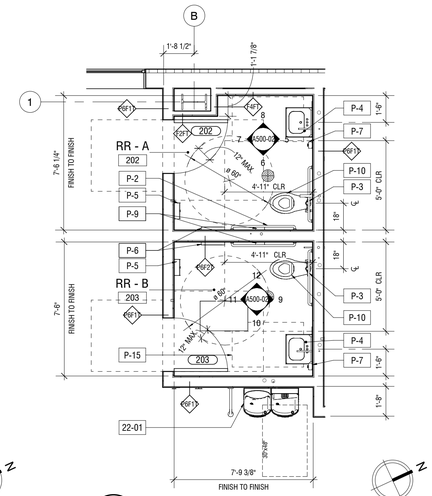
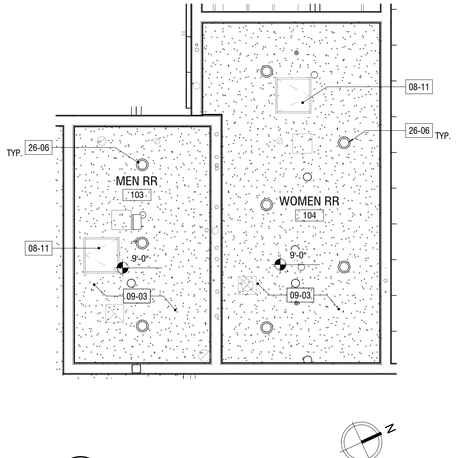


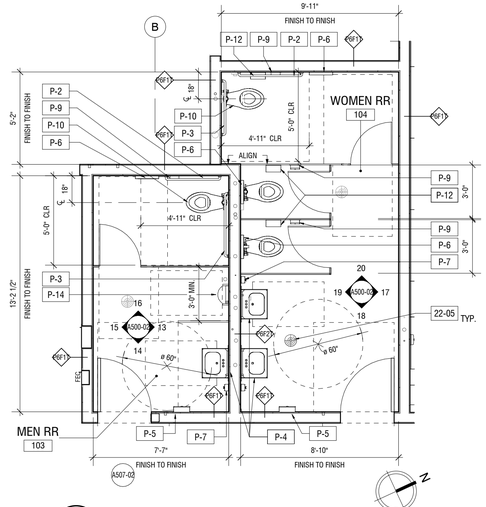
1 SECOND FLOOR RESTROOMS - REFLECTED CEILING PLAN
2/A201-02 1/4" = 1'-0"



2 SECOND FLOOR RESTROOMS - FLOOR PLAN
2/A200-02 1/4" = 1'-0"



3 FIRST FLOOR RESTROOMS - REFLECTED CEILING PLAN
1/A201-02 1/4" = 1'-0"



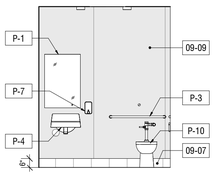
4 FIRST FLOOR RESTROOMS - FLOOR PLAN
1/A200-02 1/4" = 1'-0"

KEYNOTE LEGEND

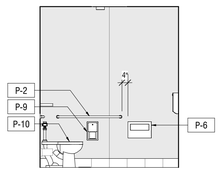
08-11	2' X 2' CEILING ACCESS PANEL
09-03	GYPSUM BOARD CEILING, S.S.D. FOR FRAMING AND SEE DETAILS A911-02
09-07	WALL BASE PER SCHEDULE
09-09	FRP WALL PER SCHEDULE
10-04	TOILET COMPARTMENT PARTITION, SEE DETAILS 10, 11, AND 12/A902-02
22-01	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE DETAILS 12/A901-02
22-05	FLOOR DRAIN, S.P.D. SLOPE FINISH FLOOR 1% MIN / 2% MAX TO DRAIN
26-06	LIGHT FIXTURE, S.E.D.
P-1	24x36 MIRROR, SEE DETAIL 6/A900-01
P-2	SIDE WALL GRAB BAR, SEE DETAIL 3/A900-01
P-3	BACK WALL GRAB BAR SEE DETAIL 3/A900-01
P-4	LAVATORY, SEE PLUMBING DRAWINGS
P-5	WASTE RECEPTACLE WITH PAPER TOWEL DISPENSER
P-6	TOILET SEAT COVER DISPENSER, SURFACE-MOUNTED
P-7	SOAP DISPENSER, SURFACE-MOUNTED
P-9	TOILET PAPER DISPENSER
P-10	ACCESSIBLE TOILET, SEE PLUMBING DRAWINGS
P-12	SANITARY NAPKIN RECEPTACLE
P-13	HAT AND COAT HOOK, SURFACE-MOUNTED
P-14	ACCESSIBLE URINAL, SEE PLUMBING DRAWINGS
P-15	ADA CHANGING TABLE

RESTROOM NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHIC U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
2. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE FIXTURES AND ACCESSORIES SEE 10 / A900-02
3. FOR ADDITIONAL INFORMATION, REFER TO PLUMBING FIXTURE SCHEDULE AND PLUMBING DRAWINGS.



5 RR. A - NORTH
2/A500-02 1/4" = 1'-0"



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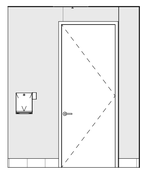
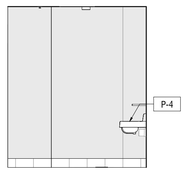
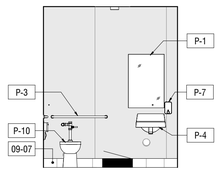
2/A500-02 1/4" = 1'-0"



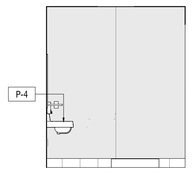
7 RR. A - SOUTH
2/A500-02 1/4" = 1'-0"



8 RR. A - WEST
2/A500-02 1/4" = 1'-0"



9 RR. B-NORTH
2/A500-02 1/4" = 1'-0"



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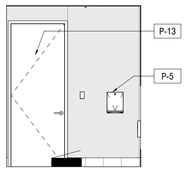
2/A500-02 1/4" = 1'-0"



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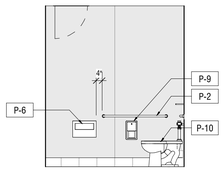
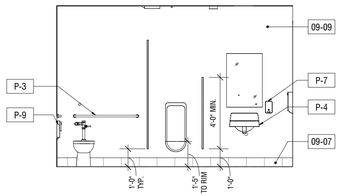
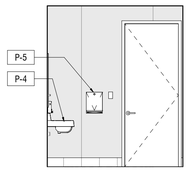
2/A500-02 1/4" = 1'-0"



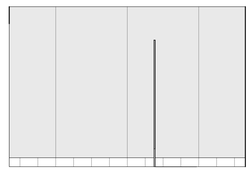
12 RR. B-WEST
2/A500-02 1/4" = 1'-0"



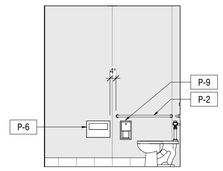
13 MENS RR-NORTH
4/A402-02 1/4" = 1'-0"



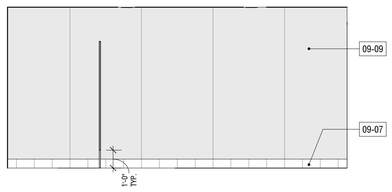
14 MENS RR-EAST
4/A500-02 1/4" = 1'-0"



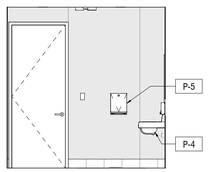
15 MENS RR-SOUTH
4/A402-02 1/4" = 1'-0"



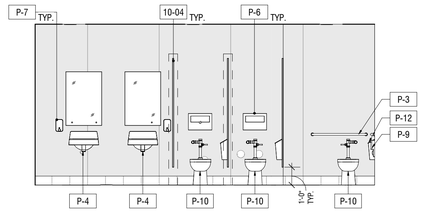
16 MENS RR-WEST
4/A500-02 1/4" = 1'-0"



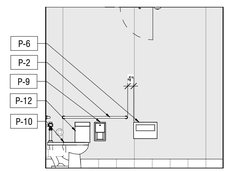
17 WOMENS RR-NORTH
4/A500-02 1/4" = 1'-0"



18 WOMENS RR-EAST
4/A500-02 1/4" = 1'-0"



19 WOMENS RR-SOUTH
4/A500-02 1/4" = 1'-0"



20 WOMENS RR-WEST
4/A500-02 1/4" = 1'-0"

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DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

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ENLARGED RESTROOMS
PLANS AND ELEVATIONS

SHEET NUMBER:

A500-02

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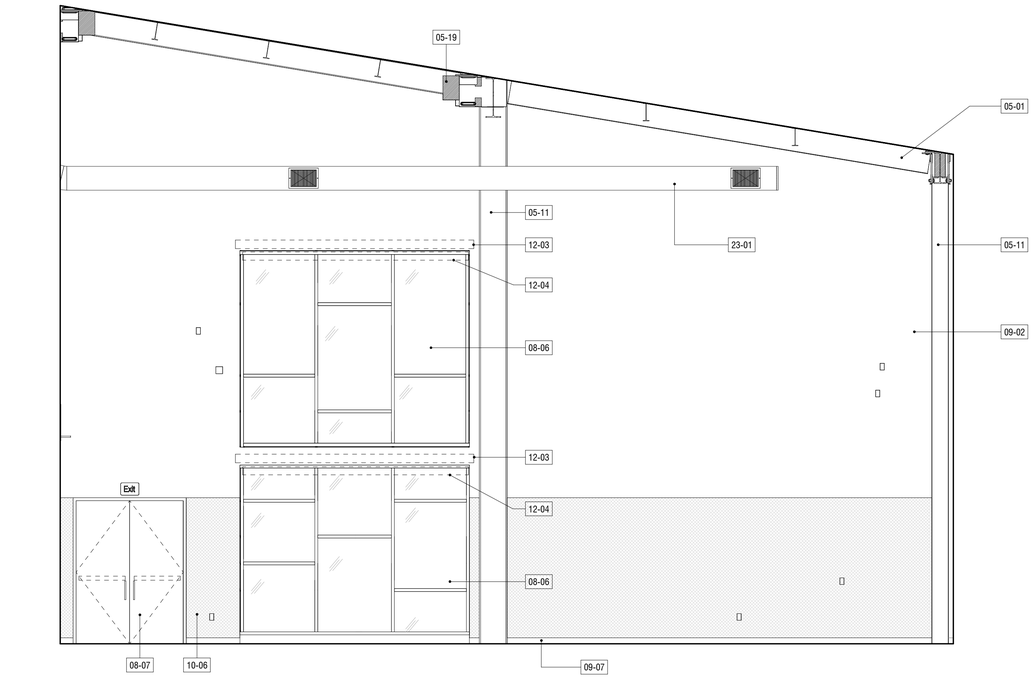
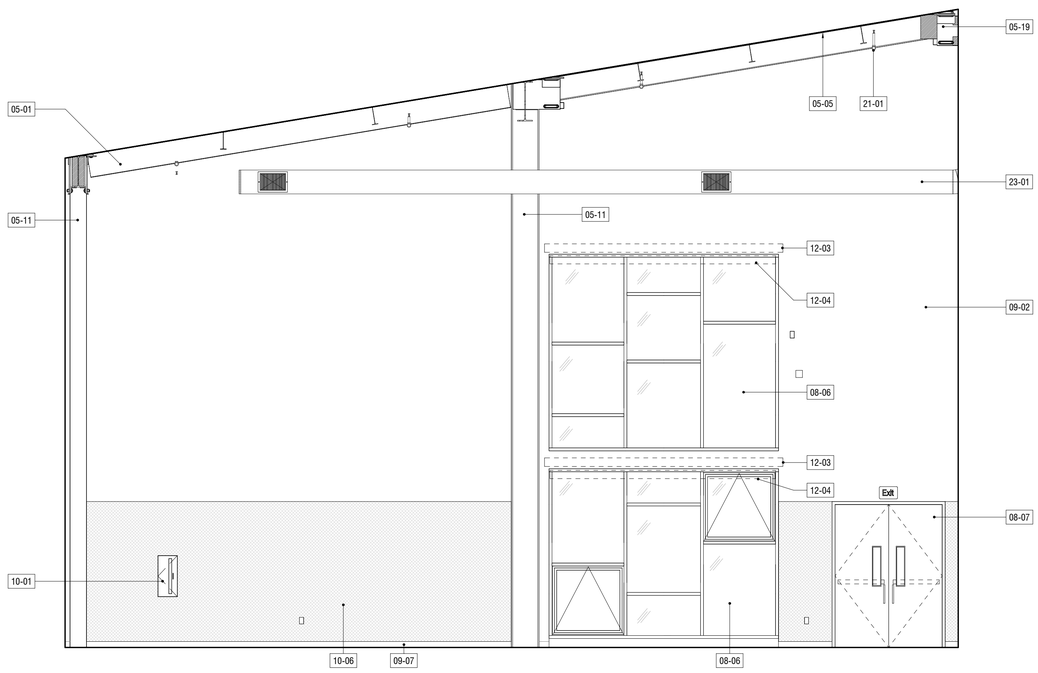


1 PERFORMANCE SPACE- NORTH ELEVATION
1/4" = 1'-0"



2 PERFORMANCE SPACE- SOUTH ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.
05-05	ACOUSTICAL PERFORATED STRUCTURAL METAL DECK, S.S.D.
05-11	STEEL COLUMN, S.S.D.
05-19	STEEL CONNECTION SYSTEM, S.S.D.
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-07	HM DOUBLE DOOR AND FRAME, SEE SCHEDULE ON A700-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-07	WALL BASE PER SCHEDULE
10-01	FIRE EXTINGUISHER CABINET, SEE DETAIL 1/A900-02
10-06	TACKBOARD
12-03	MOTORIZED BLACKOUT ROLLER SHADE, SEE 8/A901-02
12-04	MOTORIZED TRANSLUCENT ROLLER SHADE, SEE 11/A901-02
21-01	FIRE SPRINKLER PIPE, SEE FIRE PROTECTION DRAWINGS
23-01	HVAC DUCT, S.M.D.

INTERIOR ELEVATION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
2. DOORS, EXTERIOR FACING LOUVERS AND WINDOWS SHALL BE FLASHED AND SEALED AS SHOWN IN DETAIL
3. PROVIDE FLASHING AND FLASHING COLLARS. SEAL ALL WALL AND ROOF PENETRATIONS. ALL PENETRATIONS THROUGH INSULATED BUILDING ENVELOPE SHALL BE PACKED WITH INSULATION.
4. PROVIDE FIRE STOPPING AT CONCEALED SPACES AS DEFINED IN CBC SEC. 718,
5. SEE RESTROOM ELEVATIONS AND FINISH SCHEDULE FOR FINISHES AND INFORMATION NOT SHOWN HERE
6. REFER TO MECH. AND ELECTRICAL DRAWINGS FOR BALANCE OF INFORMATION AND LOCATION OF REGISTERS, VENTS AND ELECTRICAL COMPONENTS NOT SHOWN

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INTERIOR ELEVATIONS - PERFORMANCE SPACE

SHEET NUMBER:

A501-02

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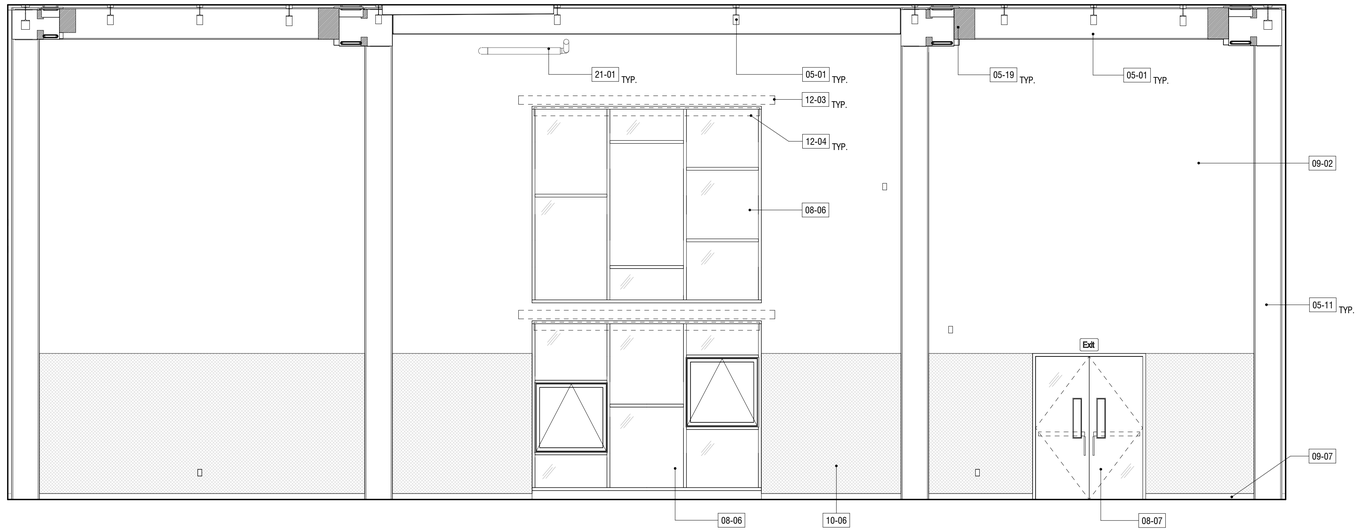
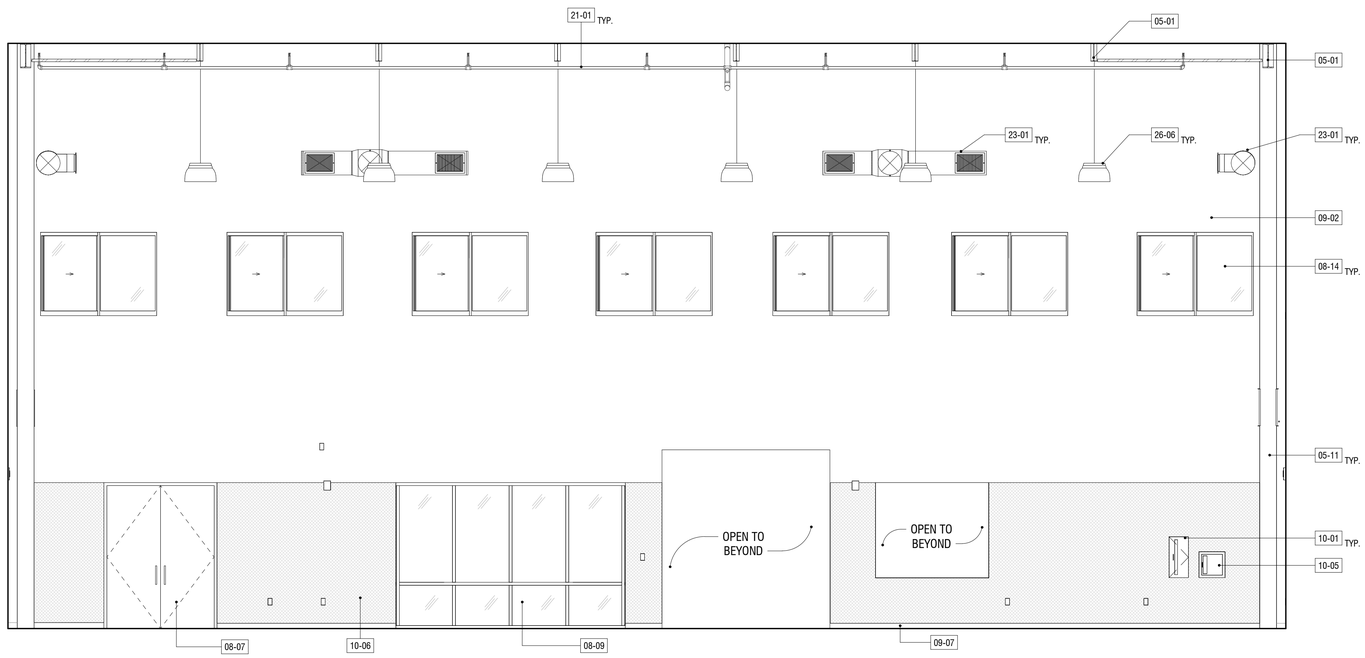


1 PERFORMANCE SPACE- EAST ELEVATION
1/4" = 1'-0"



2 PERFORMANCE SPACE- WEST ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.
05-11	STEEL COLUMN, S.S.D.
05-19	STEEL CONNECTION SYSTEM, S.S.D.
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-07	HM DOUBLE DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-14	INTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-07	WALL BASE PER SCHEDULE
10-01	FIRE EXTINGUISHER CABINET, SEE DETAIL 1/A900-02
10-05	AED CABINET, SEE DETAIL 1/A900-02
10-06	TACKBOARD
12-03	MOTORIZED BLACKOUT ROLLER SHADE, SEE 8/A901-02
12-04	MOTORIZED TRANSLUCENT ROLLER SHADE, SEE 11/A901-02
21-01	FIRE SPRINKLER PIPE, SEE FIRE PROTECTION DRAWINGS
23-01	HVAC DUCT, S.M.D.
26-06	LIGHT FIXTURE, S.E.D.

INTERIOR ELEVATION NOTES

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INTERIOR ELEVATIONS - PERFORMANCE SPACE

SHEET NUMBER:

A502-02

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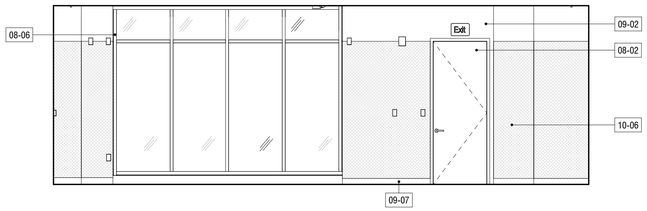
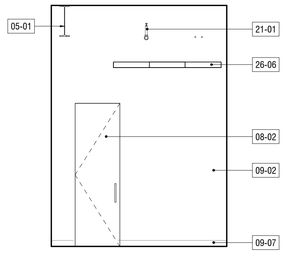
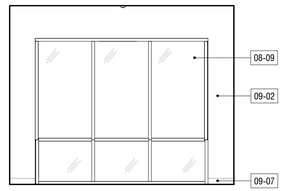


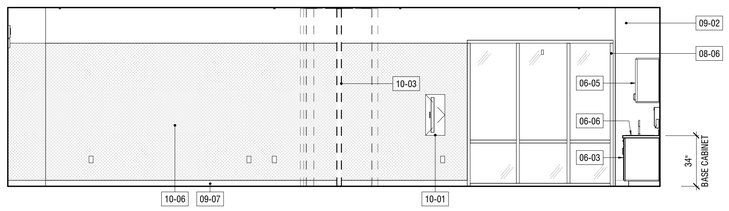
9 / 1/A200-02 CLASSROOM-NORTH ELEVATION
1/4" = 1'-0"



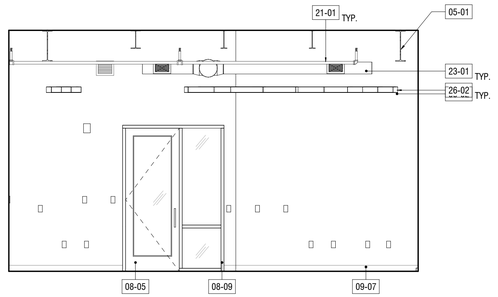
5 / 1/A200-02 LOBBY RECEPTION-NORTH ELEVATION
1/4" = 1'-0"



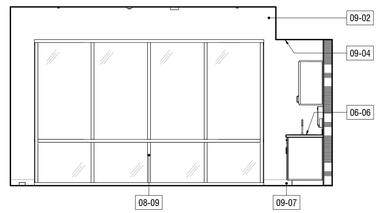
1 / 1/A200-02 TUTORIAL-NORTH ELEVATION
1/4" = 1'-0"



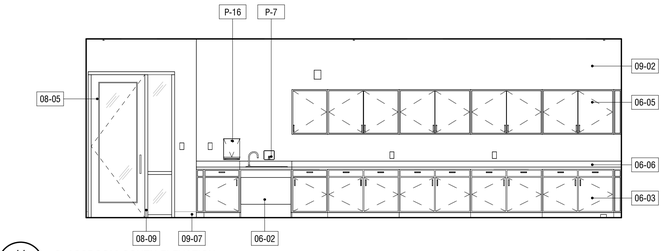
10 / 1/A200-02 CLASSROOM- EAST ELEVATION
1/4" = 1'-0"



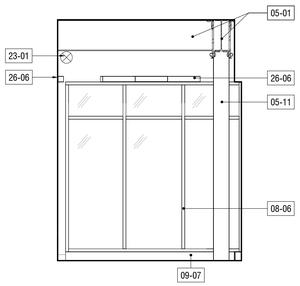
6 / 1/A200-02 LOBBY RECEPTION-EAST ELEVATION
1/4" = 1'-0"



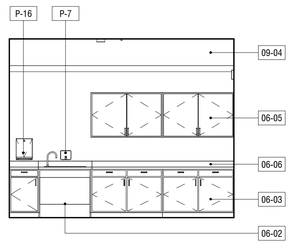
2 / 1/A200-02 TUTORIAL-EAST ELEVATION
1/4" = 1'-0"



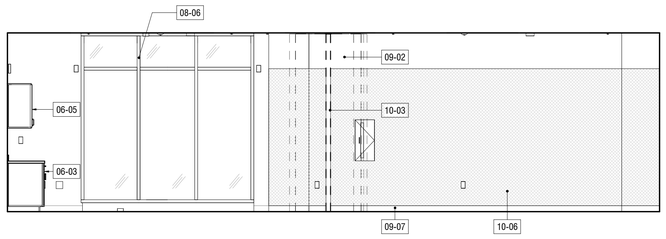
11 / 1/A200-02 CLASSROOM-SOUTH ELEVATION
1/4" = 1'-0"



7 / 1/A200-02 LOBBY RECEPTION-SOUTH ELEVATION
1/4" = 1'-0"



3 / 1/A200-02 TUTORIAL-WEST ELEVATION
1/4" = 1'-0"



12 / 1/A200-02 CLASSROOM-WEST ELEVATION
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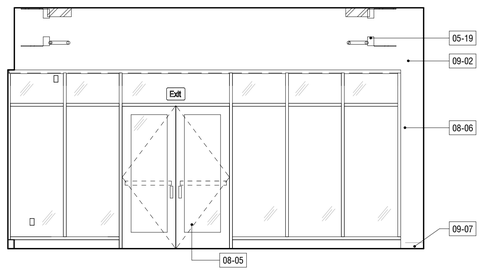

8 / 1/A200-02 LOBBY RECEPTION-WEST ELEVATION
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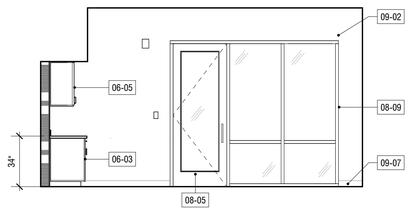

4 / 1/A200-02 TUTORIAL- WEST ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

05-01	STEEL BEAM, S.S.D.
05-11	STEEL COLUMN, S.S.D.
05-19	STEEL CONNECTION SYSTEM, S.S.D.
06-02	ACCESSIBLE BASE CABINET, SEE DETAIL 11/A900-02
06-03	BASE CABINET, SEE DETAIL 3/A902-02
06-05	UPPER WALL CABINET, SEE DETAIL 3/A902-02
06-06	COUNTERTOP WITH BACKSPLASH, SEE DETAIL 2/A902-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-05	DOOR, SEE SCHEDULE ON A700-02
08-06	EXTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-04	GYPSUM BOARD SOFFIT, S.S.D. FOR FRAMING
09-07	WALL BASE PER SCHEDULE
10-01	FIRE EXTINGUISHER CABINET, SEE DETAIL 1/A900-02
10-03	OPERABLE PANEL PARTITION WITH PASS-THRU DOOR, S.S.D. AND SEE DETAIL 7, 8 AND 9/A902-02
10-06	TACKBOARD
21-01	FIRE SPRINKLER PIPE, SEE FIRE PROTECTION DRAWINGS
23-01	HVAC DUCT, S.M.D.
26-02	LINEAR LIGHT FIXTURE, S.E.D.
26-06	LIGHT FIXTURE, S.E.D.
P-7	SOAP DISPENSER, SURFACE-MOUNTED
P-16	PAPER TOWEL DISPENSE

INTERIOR ELEVATION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
2. DOORS, EXTERIOR FACING LOUVERS AND WINDOWS SHALL BE FLASHED AND SEALED AS SHOWN IN DETAIL
3. PROVIDE FLASHING AND FLASHING COLLARS. SEAL ALL WALL AND ROOF PENETRATIONS. ALL PENETRATIONS THROUGH INSULATED BUILDING ENVELOPE SHALL BE PACKED WITH INSULATION.
4. PROVIDE FIRE STOPPING AT CONCEALED SPACES AS DEFINED IN CBC SEC. 718,
5. SEE RESTROOM ELEVATIONS AND FINISH SCHEDULE FOR FINISHES AND INFORMATION NOT SHOWN HERE
6. REFER TO MECH. AND ELECTRICAL DRAWINGS FOR BALANCE OF INFORMATION AND LOCATION OF REGISTERS, VENTS AND ELECTRICAL COMPONENTS NOT SHOWN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

LICENSED ARCHITECT
DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

CONSULTANT'S SEAL:

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

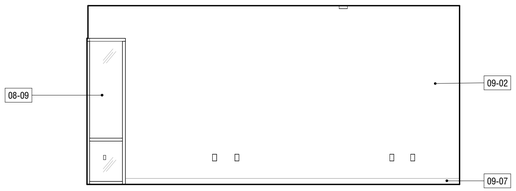
REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

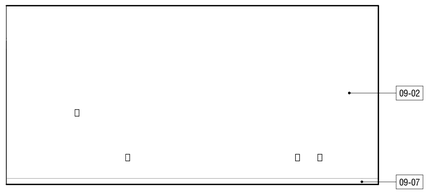
SHEET TITLE
INTERIOR ELEVATIONS

SHEET NUMBER:
A503-02

12/22/2025 1:06:43 AM © YC+D. 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.



13 OFFICE 4 - NORTH
SEE 2/A200-02 1/4" = 1'-0"



9 OFFICE 3 - NORTH
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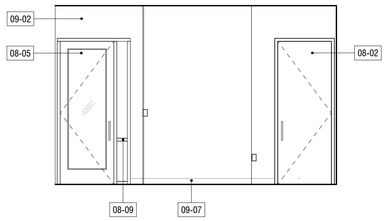

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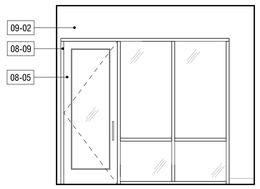
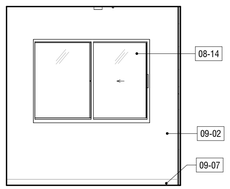


1 OFFICE 1 - NORTH
SEE 2/A200-02 1/4" = 1'-0"



14 OFFICE 4 - EAST
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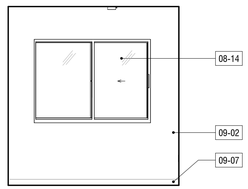

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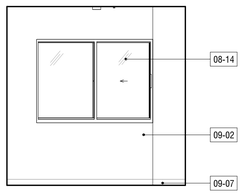
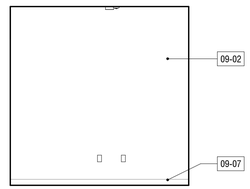
SEE 2/A200-02 1/4" = 1'-0"



6 OFFICE 2 - EAST
SEE 2/A200-02 1/4" = 1'-0"



2 OFFICE 1 - EAST
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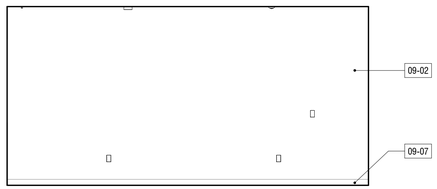
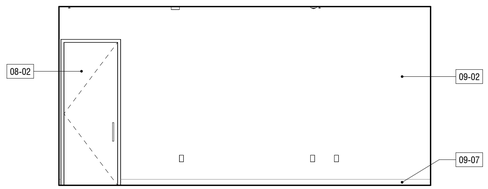
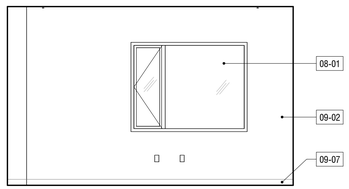


15 OFFICE 4 - SOUTH
SEE 2/A200-02 1/4" = 1'-0"



11 OFFICE 3 - SOUTH
SEE 2/A200-02 1/4" = 1'-0"



7 OFFICE 2 - SOUTH
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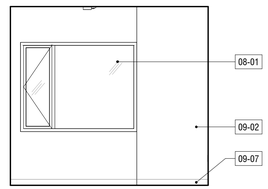

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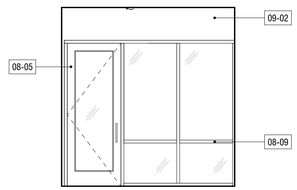
SEE 2/A200-02 1/4" = 1'-0"



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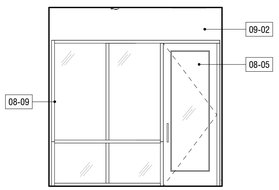
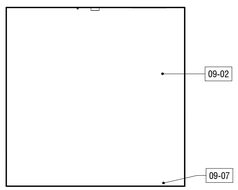
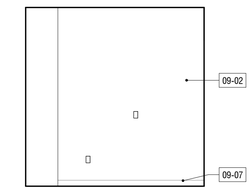


12 OFFICE 3 - WEST
SEE 2/A200-02 1/4" = 1'-0"



8 OFFICE 2 - WEST
SEE 2/A200-02 1/4" = 1'-0"



4 OFFICE 1 - WEST
SEE 2/A200-02 1/4" = 1'-0"

KEYNOTE LEGEND

08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-05	DOOR, SEE SCHEDULE ON A700-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-14	INTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-07	WALL BASE PER SCHEDULE

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

LICENSED ARCHITECT
DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

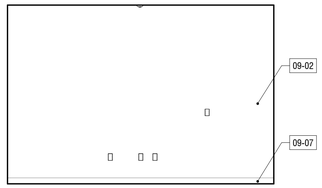
REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
INTERIOR ELEVATIONS - OFFICES

SHEET NUMBER:
A504-02

12/22/2025 1:06:44 AM © YC+D, 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.



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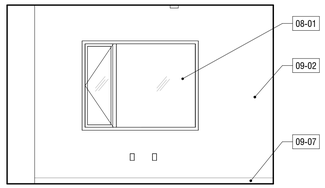

9 2/A200-02 OFFICE 7 - NORTH
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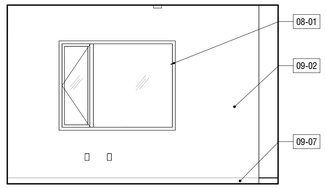

5 2/A200-02 OFFICE 6 - NORTH
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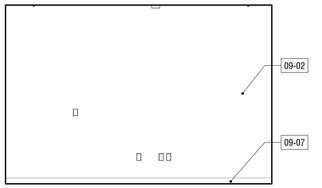

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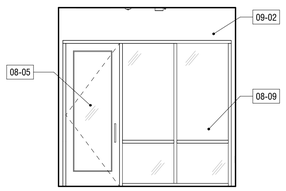

14 2/A200-02 OFFICE 8 - EAST
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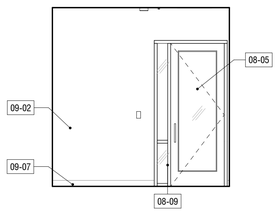

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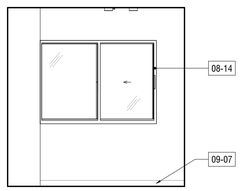

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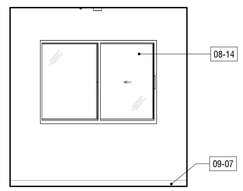

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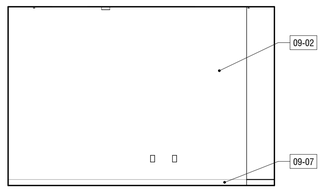

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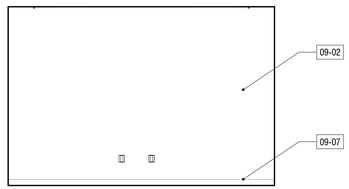

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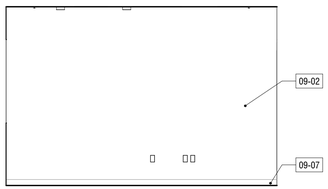

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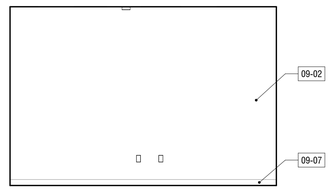

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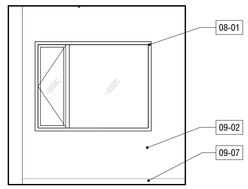
1/4" = 1'-0"



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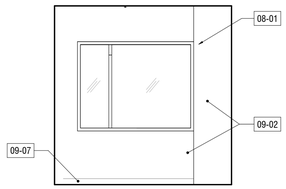

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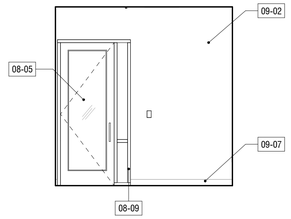

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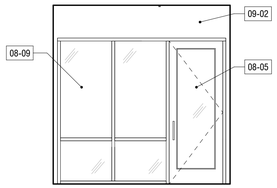

4 2/A200-02 OFFICE 5 - WEST
1/4" = 1'-0"

KEYNOTE LEGEND

08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
08-05	DOOR, SEE SCHEDULE ON A700-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-14	INTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-07	WALL BASE PER SCHEDULE

INTERIOR ELEVATION NOTES

1. KEYNOTES, CALLOUTS AND SYMBOLS ARE APPLICABLE TO ALL AREAS WITH SIMILAR GRAPHICS U.N.O. AFOREMENTIONED ANNOTATIONS ARE LIMITED TO SELECTED AREAS FOR CLARITY.
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DATE: 01/08/2026

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SHEET TITLE

INTERIOR ELEVATIONS - OFFICES

SHEET NUMBER:

A505-02

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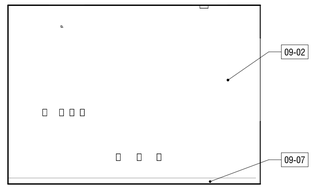

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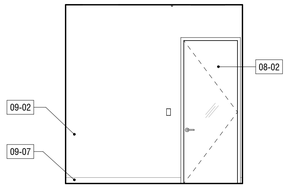
1/4" = 1'-0"



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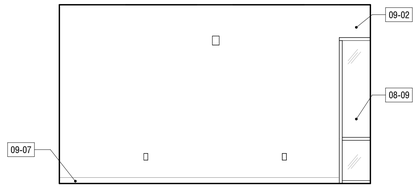
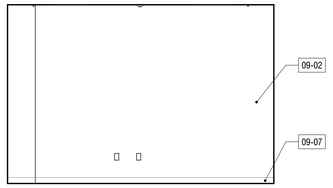


5 SHEET: A200-02 — BREAK ROOM - NORTH
1/4" = 1'-0"



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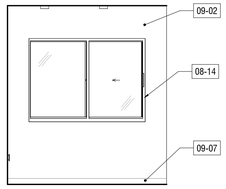
1/4" = 1'-0"



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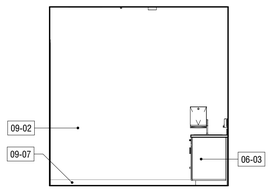

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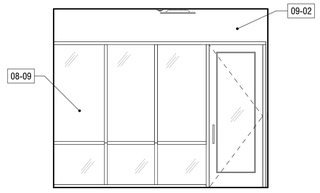

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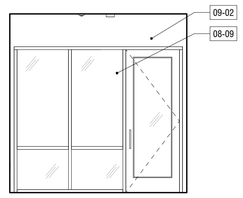

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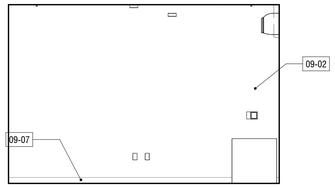
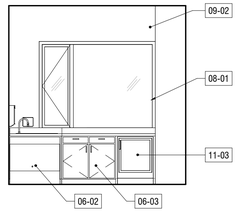


15 SHEET: A200-02 — CONTROL BOOTH - SOUTH
1/4" = 1'-0"



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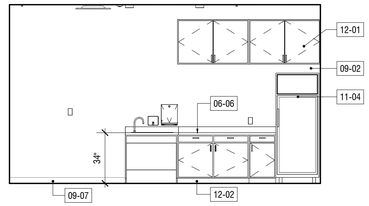

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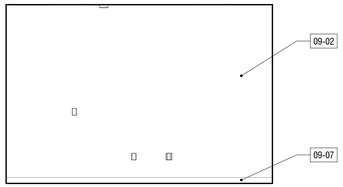
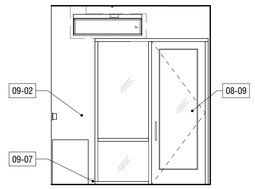
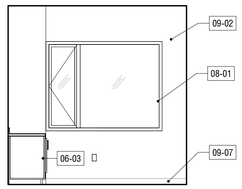
1/4" = 1'-0"



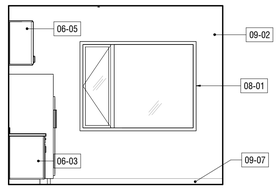
3 SHEET: A200-02 — OFFICE 9 - SOUTH
1/4" = 1'-0"



16 SHEET: A200-02 — CONTROL BOOTH - WEST
1/4" = 1'-0"



12 SHEET: A200-02 — MOTHER'S ROOM - WEST
1/4" = 1'-0"



8 SHEET: A200-02 — BREAK ROOM - WEST
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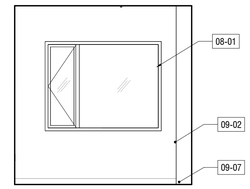

4 SHEET: A200-02 — OFFICE 9 - WEST
1/4" = 1'-0"

KEYNOTE LEGEND

06-02	ACCESSIBLE BASE CABINET, SEE DETAIL 11/A900-02
06-03	BASE CABINET, SEE DETAIL 3/A902-02
06-05	UPPER WALL CABINET, SEE DETAIL 3/A902-02
06-06	COUNTERTOP WITH BACKSPLASH, SEE DETAIL 2/A902-02
08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
08-14	INTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-07	WALL BASE PER SCHEDULE
11-03	UNDERCOUNTER REFRIGERATOR, OFOI
11-04	REFRIGERATOR, OFOI
12-01	PREFINISHED VENEER GRADE PLYWOOD UPPER CABINET - PROVIDE BACKING
12-02	PREFINISHED VENEER GRADE PLYWOOD BASE CABINET

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INTERIOR ELEVATIONS

SHEET NUMBER:

A506-02

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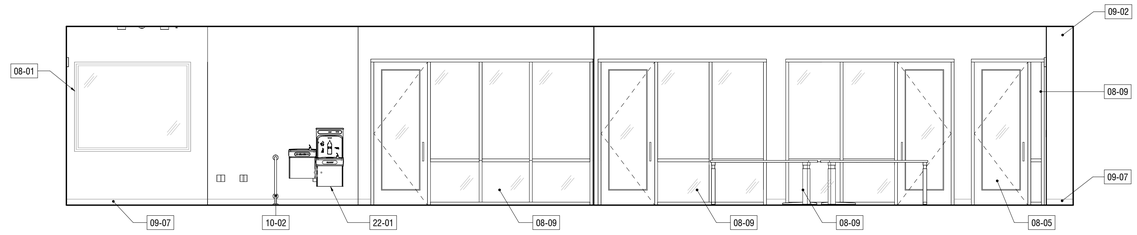
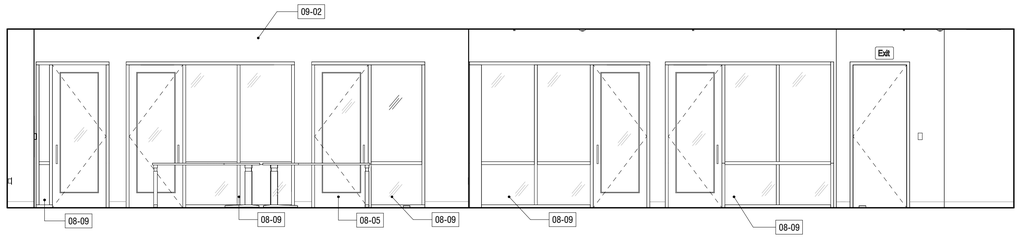
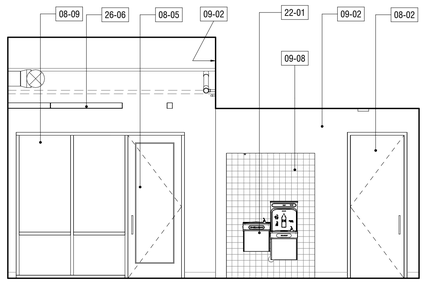


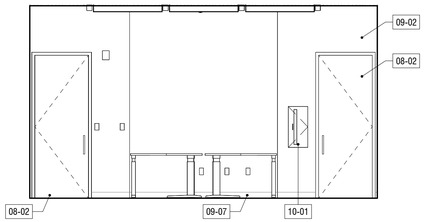
1 2/A200-02 HALLWAY SECOND FLOOR - WEST
1/4" = 1'-0"



2 2/A200-02 HALLWAY SECOND FLOOR - EAST
1/4" = 1'-0"



5 1/A200-02 HALLWAY FIRST FLLOR- DRINKING FOUNTAIN
1/4" = 1'-0"



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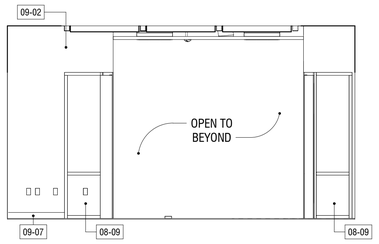
1/4" = 1'-0"



4 2/A200-02 HALLWAY SECOND FLOOR - SOUTH
1/4" = 1'-0"

KEYNOTE LEGEND

08-01	EXTERIOR ALUMINUM WINDOW, SEE SCHEDULE ON A701-02
08-02	HM DOOR AND FRAME, SEE SCHEDULE ON A700-02
08-05	DOOR, SEE SCHEDULE ON A700-02
08-09	INTERIOR ALUMINUM STOREFRONT SYSTEM, SEE SCHEDULE ON A701-02
09-02	GYPSUM BOARD WALL, PAINTED, S.S.D. FOR FRAMING. SEE PLANS AND A600-02 AND A601-02 FOR ALL WALL TYPES AND ASSEMBLIES
09-07	WALL BASE PER SCHEDULE
09-08	CERAMIC TILE PER SCHEDULE
10-01	FIRE EXTINGUISHER CABINET, SEE DETAIL 1/A900-02
10-02	BARRIER RAIL, SEE DETAIL 9/A901-02
22-01	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE DETAILS 12/A901-02
26-06	LIGHT FIXTURE, S.E.D.

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SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER:

A507-02

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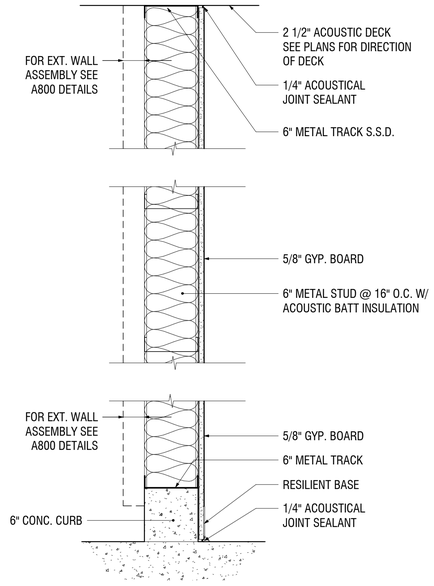
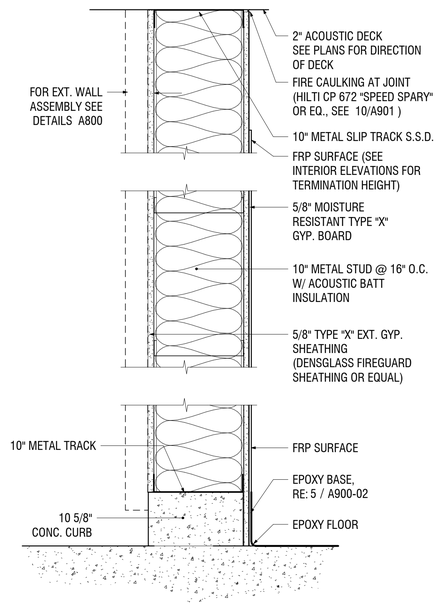


7 WALL TYPE - E6
1 1/2" = 1'-0"

DESIGN NO. GA WP 8123
NONBEARING WALL RATING — 1 HR.



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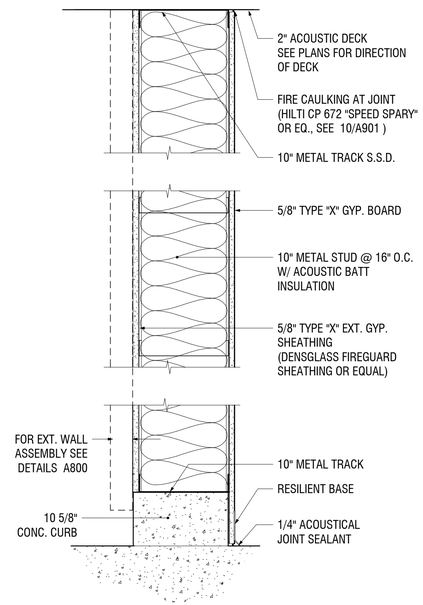
DESIGN NO. GA WP 8123
NONBEARING WALL RATING — 1 HR.



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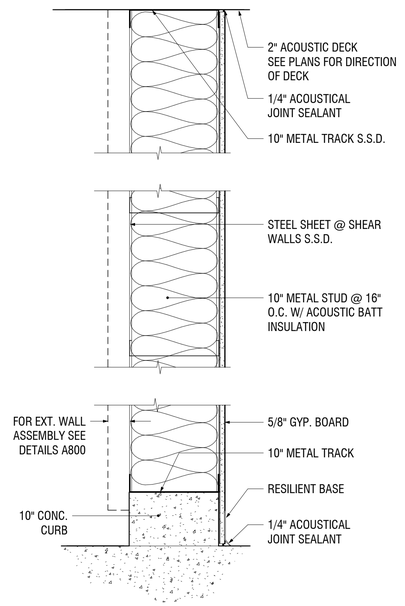

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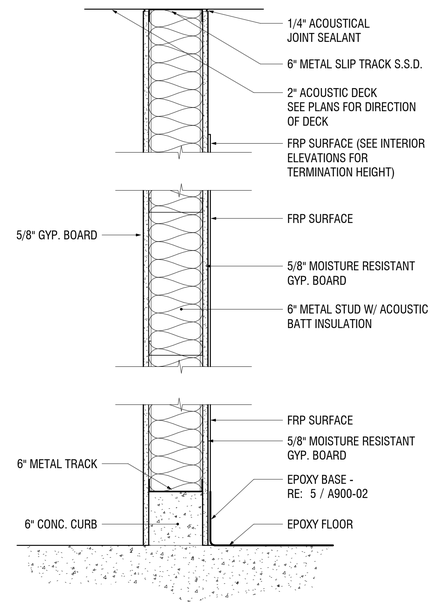
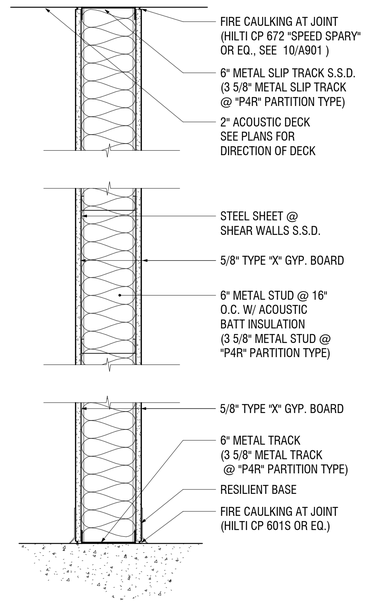
1 1/2" = 1'-0"

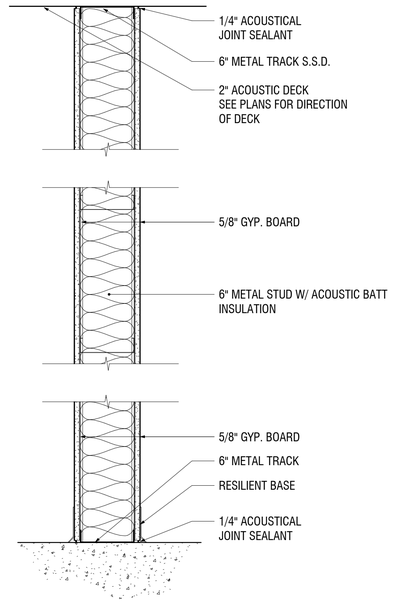


8 WALL TYPE - P6F1
1 1/2" = 1'-0"

DESIGN NO. U465
NONBEARING WALL RATING — 1 HR.



6 WALL TYPE - P6R (SIMILAR FOR WALL TYPE "P4R")
1 1/2" = 1'-0"



4 WALL TYPE - P6
1 1/2" = 1'-0"

DESIGN NO. GA WP 8123
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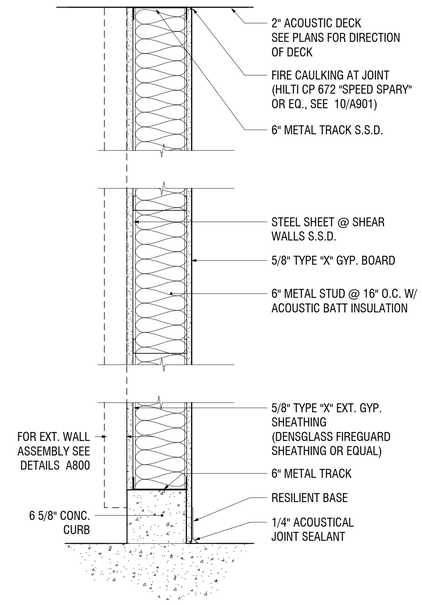

2 WALL TYPE - E6R
1 1/2" = 1'-0"

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RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

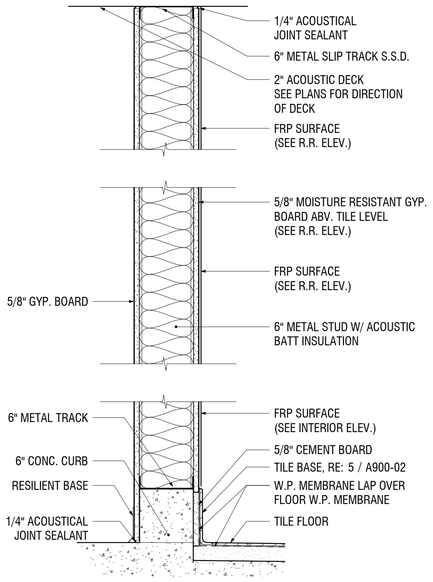
DSA SUBMITTAL

SHEET TITLE

WALL TYPES

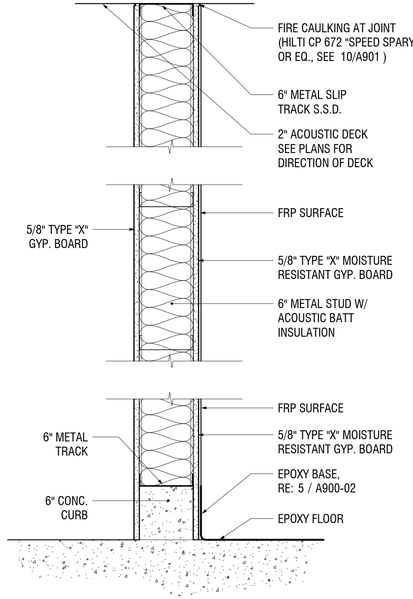
SHEET NUMBER:

A600-02

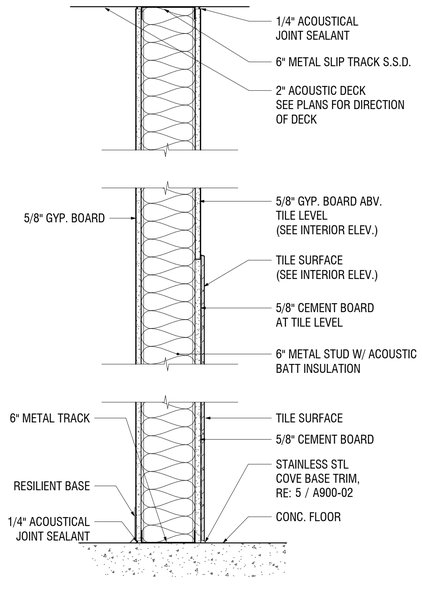


9 WALL TYPE - P6F1T
1 1/2" = 1'-0"

DESIGN NO. U465
NONBEARING WALL RATING — 1 HR.

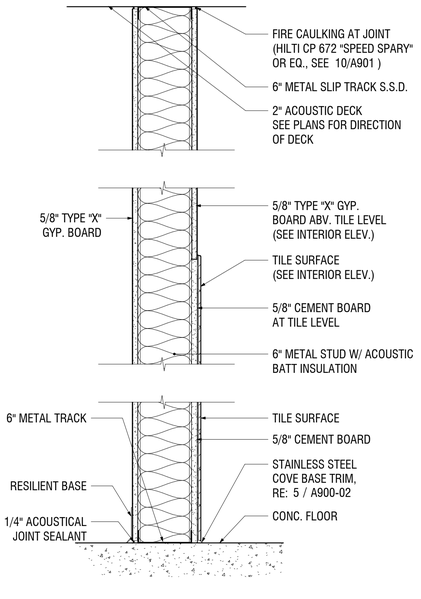


7 WALL TYPE - P6RF1
1 1/2" = 1'-0"

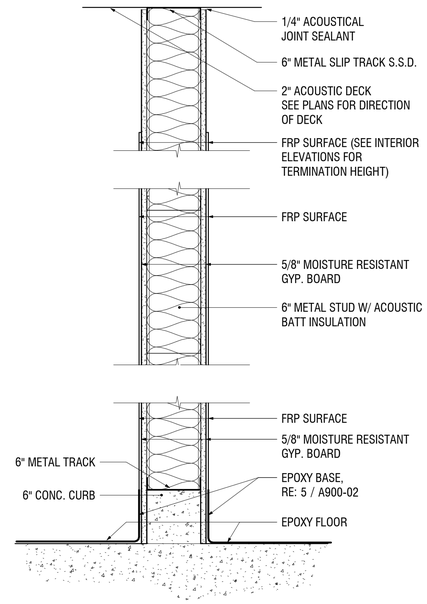


5 WALL TYPE - P6T
1 1/2" = 1'-0"

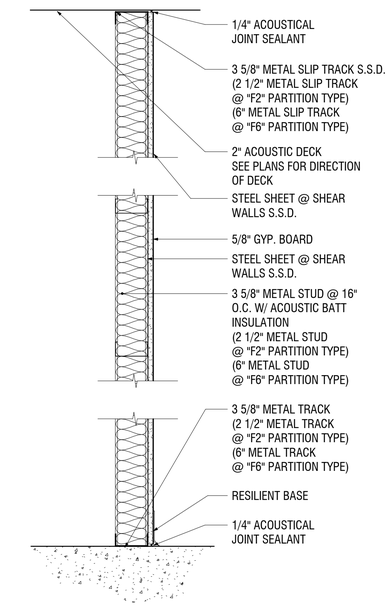
DESIGN NO. U465
NONBEARING WALL RATING — 1 HR.



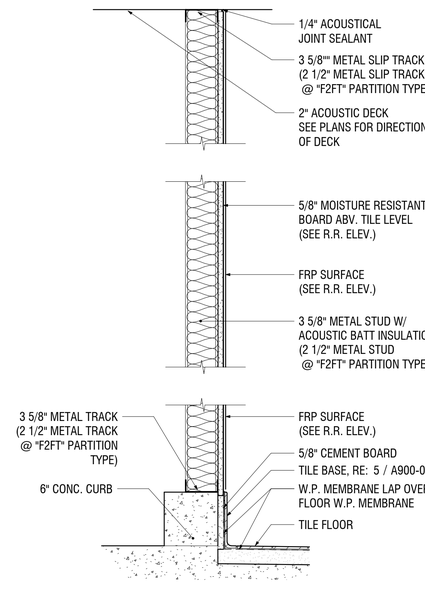
3 WALL TYPE - P6RT
1 1/2" = 1'-0"



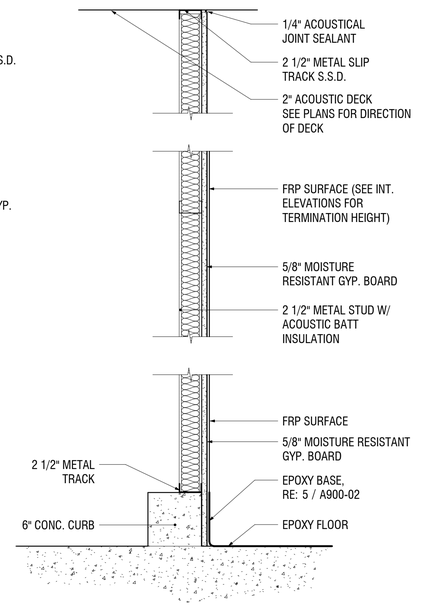
1 WALL TYPE - P6F2
1 1/2" = 1'-0"



10 WALL TYPE - F4 (SIMILAR FOR WALL TYPES "F2" AND "F6")
1 1/2" = 1'-0"

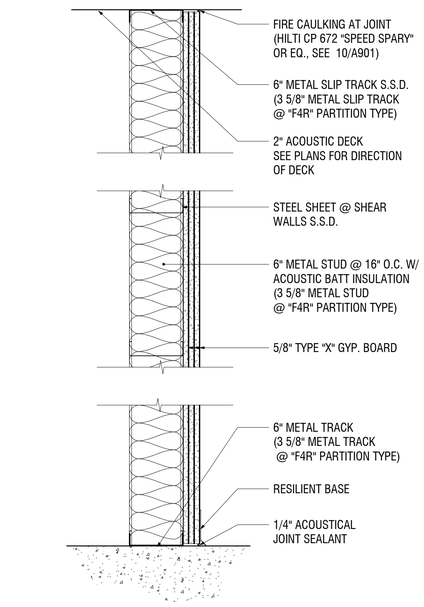


8 WALL TYPE - F4FT (SIMILAR FOR WALL TYPE "F2FT")
1 1/2" = 1'-0"

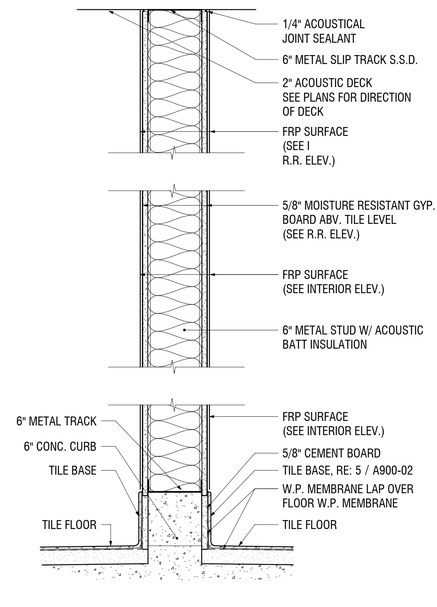


6 WALL TYPE - F2F
1 1/2" = 1'-0"

DESIGN NO. V497
NONBEARING WALL RATING — 1 HR.



4 WALL TYPE - F6R (SIMILAR FOR WALL TYPE "F4R")
1 1/2" = 1'-0"



2 WALL TYPE - P6F2T
1 1/2" = 1'-0"

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DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

LICENSED ARCHITECT
DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

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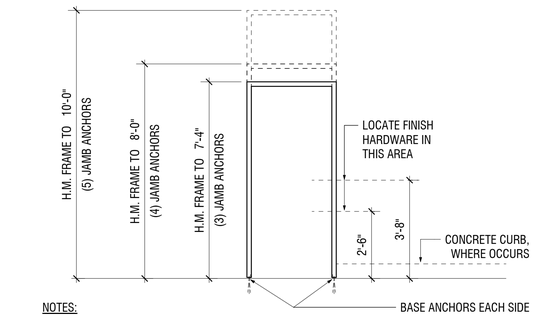
WALL TYPES

SHEET NUMBER:

A601-02



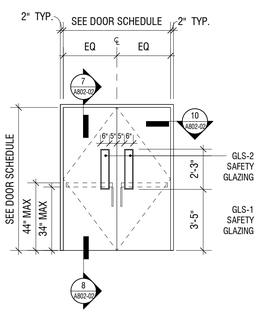
NOTES:

1. PROVIDE A MINIMUM OF 3-FRAME ANCHORS AT EACH JAMB OF DOOR FRAMES. AT CONCRETE SLABS PROVIDE SNAP-IN FRAME ANCHORS AT 24" O.C. (2 MINIMUM) WITH 3/8" DIA. SS KB-TZ2 W/ 2 1/2" EMBED FROM ANCHOR TO CONCRETE (TYP).
2. JAMB ANCHORS TO BE SPACED EQUALLY. (PER ICC REPORT NO. ESR-4266, SSD)
3. ATTACH ANCHORS TO LIGHT GAUGE STEEL FRAMING WITH #8 SMS SCREWS, 1/2" MINIMUM PENETRATION PAST EDGE OF METAL FRAME, 2 PER ANCHOR.
4. BASE ANCHORS ARE ADDITIONAL TO THE NUMBER OF JAMB ANCHORS INDICATED ON THIS DIAGRAM.

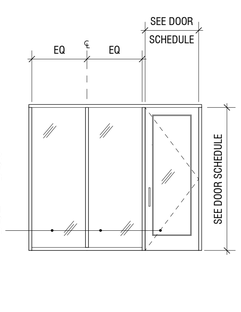
1 HM FRAME ANCHORAGE
3/8" = 1'-0"

DOOR SCHEDULE

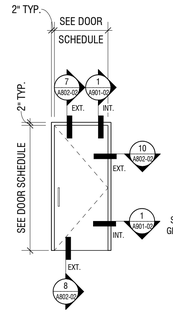
DOOR ID	ROOM	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR/FRAME TYPE	FRAME MATERIAL	HARDWARE SET	PANIC HARDWARE	SECURITY HARDWARE	COMMENTS
100.1	LOBBY	6'-0"	8'-0"	AL/GLS-2	D	AL	04	Yes	Yes	
100.2	LOBBY	3'-0"	8'-0"	WOOD	B	AL	13	Yes	Yes	BUZZER RELEASE WITH CONTROL AT RECEPTIONS DESKS & KEYPAD
101	STORAGE	2'-6"	8'-0"	HM	C	HM	06	No	No	
103	MENS RR	3'-0"	8'-0"	WOOD	C	HM	08	No	No	RESTROOM DOORS MUST SELF CLOSE
104	WOMENS RR	3'-0"	8'-0"	WOOD	C	HM	08	No	No	RESTROOM DOORS MUST SELF CLOSE
105.1	CLASSROOM	3'-0"	8'-0"	HM	C	HM	01	Yes	Yes	
105.2	CLASSROOM	3'-0"	8'-0"	WOOD	B	AL	09	No	No	
106	KITCHEN	3'-0"	8'-0"	WOOD	B	AL	10	No	No	
106.1	KITCHEN	3'-0"	8'-0"	HM	C	HM	01	Yes	Yes	
106.2	KITCHEN	6'-0"	6'-6"	SS	F	SS	17	No	No	FOOD GRADE STAINLESS STEEL 6'-0" WIDE ROLL-UP COUNTER SERVICE DOOR
106.3	KITCHEN	6'-0"	6'-6"	SS	F	SS	17	No	No	FOOD GRADE STAINLESS STEEL 6'-0" WIDE ROLL-UP COUNTER SERVICE DOOR
107	TUTORIAL	3'-0"	8'-0"	WOOD	B	AL	10	No	No	
108	JANITOR	3'-0"	8'-0"	HM	C	HM	06	No	No	
109.1	STAIRS	3'-0"	8'-0"	HM	C	HM	11	No	No	1 HR RATED
109.2	STAIRS	3'-0"	8'-0"	HM	C	HM	01	Yes	Yes	
110	ELEVATOR MECH	3'-0"	8'-0"	HM	C	HM	12	No	No	1 HR RATED
112.1	MPR	6'-0"	8'-0"	HM	A	HM	03	Yes	Yes	
112.2	MPR	6'-0"	8'-0"	HM	E	HM	03	Yes	Yes	
112.3	MPR	6'-0"	8'-0"	HM	A	HM	03	Yes	Yes	
113	STORAGE	6'-0"	8'-0"	HM	E	HM	16	No	No	
200	STAIRS	3'-0"	8'-0"	HM	C	HM	19	Yes	Yes	1 HR RATED
201	MOTHER'S ROOM	3'-0"	8'-0"	WOOD	C	HM	14	No	No	
202	RESTROOM -A	3'-0"	8'-0"	WOOD	C	HM	14	No	No	RESTROOM DOORS MUST SELF CLOSE
203	RESTROOM -B	3'-0"	8'-0"	WOOD	C	HM	14	No	No	RESTROOM DOORS MUST SELF CLOSE
204	BREAKROOM	3'-0"	8'-0"	WOOD	B	AL	15	No	No	
205	OFFICE 9	3'-0"	8'-0"	WOOD	B	AL	15	No	No	
206	OFFICE 8	3'-0"	8'-0"	WOOD	B	AL	15	No	No	
207	OFFICE 7	3'-0"	8'-0"	WOOD	B	AL	15	No	No	
208.1	STORAGE	3'-0"	8'-0"	HM	C	HM	06	No	No	
208.2	STORAGE	3'-0"	8'-0"	HM	C	HM	06	No	No	
209	OFFICE 2	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
210	OFFICE 1	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
212	OFFICE 6	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
213	OFFICE 5	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
214	CONTROL BOOTH	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
215	OFFICE 4	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
216	OFFICE 3	3'-0"	8'-0"	WOOD	C	AL	15	No	No	
217.1	STORAGE	3'-0"	8'-0"	WOOD	C	HM	07	No	No	
217.2	STORAGE	3'-0"	8'-0"	WOOD	C	HM	07	No	No	
300.1	STORAGE BUILDING	6'-0"	7'-0"	HM	A	HM	03	Yes	Yes	
300.2	STORAGE BUILDING	3'-0"	7'-0"	HM	C	HM	02	No	Yes	
300.3	STORAGE BUILDING	12'-0"	14'-0"	STEEL	F	STEEL	17	No	No	



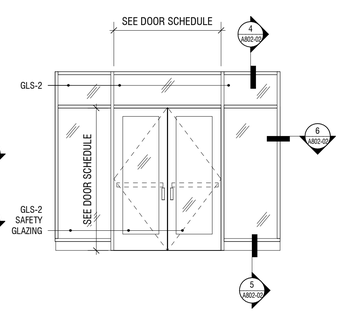
TYPE A (EXTERIOR CONDITION)
HOLLOW METAL FRAME/
PAIR FLUSH DOOR WITH FULL LIGHT



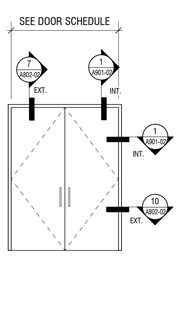
TYPE B (INTERIOR CONDITION)
ALUMINUM FRAME WITH FIXED SIDELIGHT/
FLUSH DOOR WITH FULL LIGHT



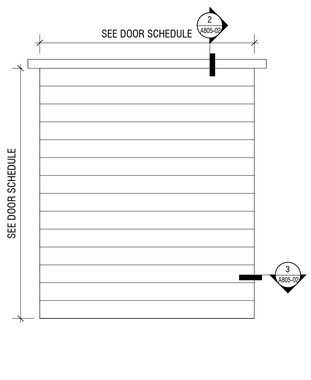
TYPE C
HOLLOW METAL FRAME/
FLUSH DOOR



TYPE D (EXTERIOR CONDITION)
ALUMINUM FRAME WITH FIXED SIDELIGHT/
FLUSH DOOR FULL GLAZING



TYPE E
HOLLOW METAL FRAME/
FLUSH DOOR



TYPE F
ROLL-UP DOOR

GLAZING NOTES AND SCHEDULE

NOTES:

1. GLAZING SHALL MEET THE MINIMUM FRAME LAP AND GLASS EDGE CLEARANCE PER CBC 2403.2.1 PROVIDE CONTINUOUS GLAZING RABBET AND GLASS RETAINER
2. NFRC COMPLIANCE: COMPLETE SITE-BUILT ASSEMBLIES SHALL CONFORM TO NFRC REQUIREMENTS AND TESTED AND LABELED TESTED IN ACCORDANCE WITH THAT STANDARD
3. NFRC LABELS SHALL REMAIN ON WINDOWS FOR VERIFICATION BY INSPECTOR
4. SAFETY GLAZING SHALL BE PROVIDED WHERE REQUIRED PER CBC 2406

SCHEDULE:

1. **GLS-1:** MONOLITHIC VISION GLASS, CLEAR, 1/4 INCH THICK, TEMPERED
2. **GLS-1A:** INSULATED GLASS UNIT, CLEAR, 1 INCH THICK ASSEMBLY, TEMPERED
2. **GLS-2:** INSULATED GLASS UNIT (IGU):
   GLASS SPEC: SOLARBAN 70
   A. OVERALL THICKNESS: 1 INCH
   B. ASSEMBLY: 1/4" GLASS ON EITHER SIDE + 1/2" AIR
   C. SPACER: ALUM., BLACK
   D. INNER AND OUTER VISION LIGHTS:
   E. NO.2 SURFACE: LOW-E COATING

• **MINIMUM PERFORMANCE REQUIREMENTS FOR GLASS:**
1. THERMAL TRANSMITTANCE, WINTER - CENTER OF GLASS: 0.29, NOMINAL
2. VISIBLE LIGHT TRANSMITTANCE: 70%, NOMINAL
3. SOLAR HEAT GAIN COEFFICIENT: 0.39, NOMINAL
4. VISIBLE LIGHT REFLECTANCE, OUTSIDE: 11%, NOMINAL

DOOR GENERAL NOTES

1. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER
2. INSTALL STOREFRONT MULLIONS AND HOLLOW METAL FRAMES WITH 1/4 INCH SHIM AND JOINT SEALANT AROUND PERIMETER OF FRAME
3. PROVIDE HEAD RECEIVERS AT ALUM. STOREFRONTS AS REQUIRED FOR STRUCTURAL AND FRAME DEFLECTION
4. JAMBS SHALL MAINTAIN 6 INCH MIN. FROM ADJACENT WALLS AND PARTITIONS U.N.O
5. WHERE REQUIRED, EXIT DEVICES (PANIC HARDWARE), SHALL BE INSTALLED WITH ACTIVATING MEMBER CENTERED AT A HEIGHT OF NO LESS THAN 34 INCH OR MORE THAN 44 INCH ABOVE THE FLOOR. PER CBC 11B-404.2.7 AND 11B-309.4

   EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
   A. THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE (CBC 1010.2.9.3, ITEM 3)
   B. THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.
6. PANIC HARDWARE IS REQUIRED FROM ROOMS AND CORRIDORS OF E OCCUPANCY WHERE OCCUPANT LOAD EXCEEDS 49
7. PRESSURE TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR AND INTERIOR DOORS AND 15 POUNDS FOR FIRE DOORS. PER CBC 11B-404.2.9
8. ALL OPERATING DOOR HARDWARE SHALL COMPLY WITH THE REQUIREMENTS IN CBC 11B-404.2.7, 1008.1.0 AND 11B-309.4 AND SHALL NOT REQUIRE MORE THAN 5 POUNDS OF FORCE
9. THRESHOLDS SHALL COMPLY WITH CBC 11B-404.2.5 AND SHALL BE 1/2" MAX IN HEIGHT AND BEVELED 1:2
10. DOOR AND GATE CLOSERS SHALL BE ADJUSTED TO FORM AN OPEN POSITION OF 12 DEGREES FROM THE LATCH IN 5 SECONDS MINIMUM. PER CBC 11B-404.2.8.1
11. SEE GENERAL SHEETS FOR DOOR SIGNAGE INFORMATION AND DETAILS ON SIGNS ON DOORS AND SIGNS RELATED TO EXIT AND ENTRANCE
12. CLASSROOM DOOR HARDWARE TO COMPLY WITH AB 211 PER DSA BULLETIN 11-05
13. NEW BUILDINGS SERVING K-12, ON NEW OR EXISTING CAMPUSES, SHALL INCLUDED LOCKS THAT ALLOW DOORS TO CLASSROOM AND ANY ROOM WITH AN OCCUPANCY OF 5 OR MORE PERSONS TO BE LOCKED FROM THE INSIDE PER CBC

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APP: 02-123377 INC: 02
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yc+d ARCHITECTURE
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INCREMENT 2

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SHEET TITLE
DOOR AND DOOR HARDWARE SCHEDULE

SHEET NUMBER:
A700-02

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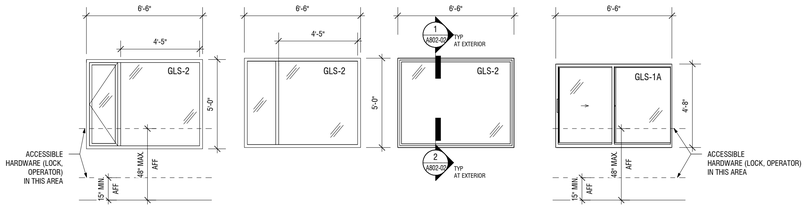
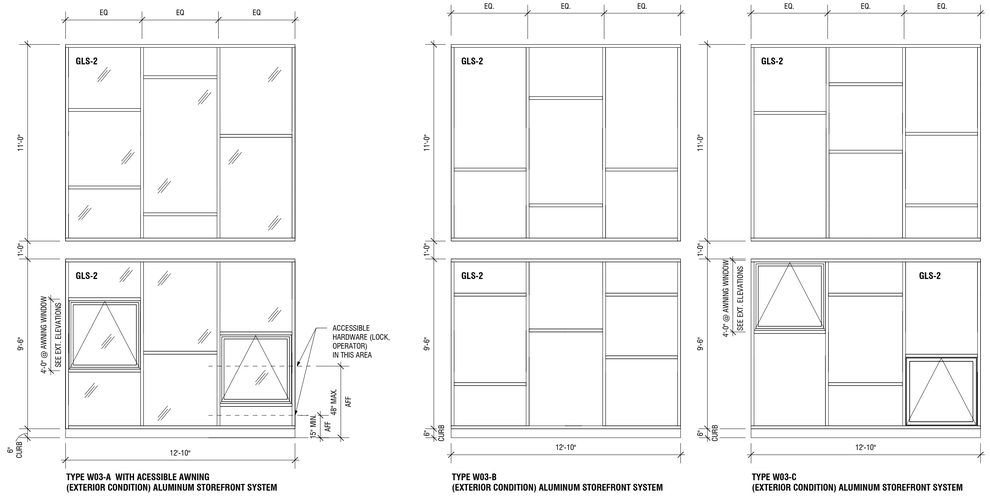


TYPE W01 - (EXTERIOR CONDITION) ALUMINUM WINDOW/ FIXED AND AWNING

TYPE W01.1 - (EXTERIOR CONDITION) ALUMINUM WINDOW/ FIXED AND FIXED

TYPE W01.2 - (EXTERIOR CONDITION) ALUMINUM WINDOW/ FIXED

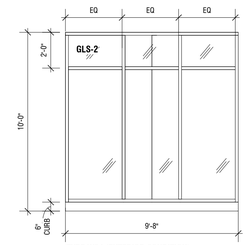
TYPE W02 - (INTERIOR CONDITION) ALUMINUM WINDOW/ SLIDING



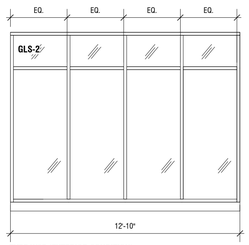
TYPE W03-A WITH ACESSIBLE AWNING (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W03-B (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

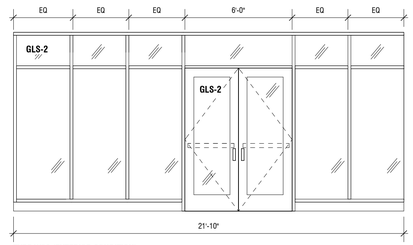
TYPE W03-C (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM



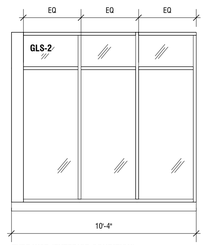
TYPE W04 (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM



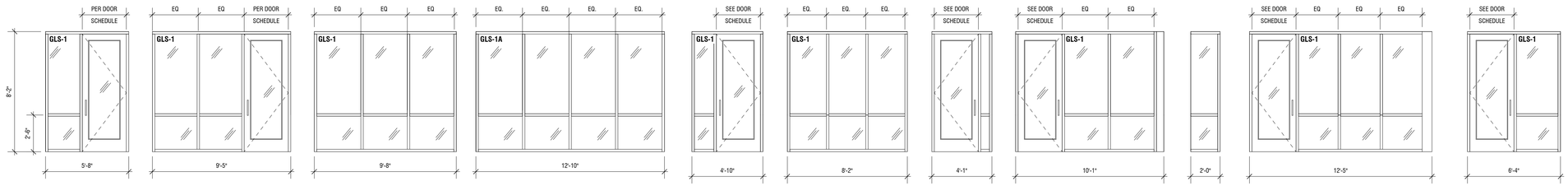
TYPE W05 (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM



TYPE W06 (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM



TYPE W07 (EXTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM



TYPE W08 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W09 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W10 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W11 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W12 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W13 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W14 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W15 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W16 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W17 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

TYPE W18 (INTERIOR CONDITION) ALUMINUM STOREFRONT SYSTEM

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR			WALL		CEILING		COMMENTS
		MATERIAL	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	
100	LOBBY RECEPTION	LVT	--	RB	GB	PAINT	EXP. DECK	PAINT	
101	ELEC RM	CONC	SEALED	RB	GB	PAINT	EXP. DECK	PAINT	FIRE TREATED PLYWOOD AT ALL INTERIOR WALLS
102	HALLWAY	CONC	POLISHED	RB	GB	PAINT	EXP. DECK/ GB	PAINT/ PAINT	SEE CEILING PLAN
103	MEN RR	CT	--	CT	MRGB	FRP	GB	PAINT	FULL HEIGHT FRP
104	WOMEN RR	CT	--	CT	MRGB	FRP	GB	PAINT	FULL HEIGHT FRP
105	CLASSROOM	CONC	POLISHED	RB	GB	PAINT	ACT	--	SEE INT. ELEVATION FOR EXTENT OF TACKBOARD
106	KITCHEN	EPX	--	EPX	MRGB	FRP/ SS	ACT-MRGB	--	SEE INT. ELEVATION AND WALL TYPES
107	TUTORIAL	LVT/ CPT	--	RB	GB	PAINT	ACT/ GB	--/ PAINT	SEE FLOOR PLAN AND CEILING PLAN
108	JANITOR	EPX	--	EPX	MRGB	FRP	ACT/ GB	--/ PAINT	FULL HEIGHT FRP
109	STAIR	STEEL/CONC	SEALED	RB	GB	PAINT	EXP. DECK/ GB	--/ PAINT	
110	ELEV MACHINE RM	CONC	SEALED	RB	GB	PAINT	GB	PAINT	
111	ELEVATOR	CONC	SEALED	--	--	--	EXP. DECK	--	
112	MPR-PERFORMAC E SPACE	CONC	POLISHED	RB	GB	PAINT	EXP. DECK	PAINT	SEE INT. ELEVATION FOR EXTENT OF TACKBOARD.
113	STORAGE	CONC	SEALED	RB	GB	PAINT	EXP. DECK/ GB	--/ PAINT	
200	HALLWAY	CONC	POLISHED	RB	GB	PAINT	ACT/ GB	--/ PAINT	
201	MOTHER'S ROOM	LVT	--	RB	GB	PAINT	ACT	--	
202	RR - A	CT	--	CT	MRGB	FRP	GB	PAINT	FULL HEIGHT FRP
203	RR - B	CT	--	CT	MRGB	FRP	GB	PAINT	FULL HEIGHT FRP
204	BREAK ROOM	LVT	--	RB	GB	PAINT	ACT	--	
205	OFFICE 9	LVT	--	RB	GB	PAINT	ACT	--	
206	OFFICE 8	LVT	--	RB	GB	PAINT	ACT	--	
207	OFFICE 7	LVT	--	RB	GB	PAINT	ACT	--	
208	STORAGE	CONC	SEALED	RB	GB	PAINT	EXP. DECK	PAINT	
209	OFFICE 2	LVT	--	RB	GB	PAINT	ACT	--	
210	OFFICE 1	LVT	--	RB	GB	PAINT	ACT	--	
211	ELEVATOR	CONC	SEALED	--	--	--	EXP. DECK	--	
212	OFFICE 6	LVT	--	RB	GB	PAINT	ACT	--	
213	OFFICE 5	LVT	--	RB	GB	PAINT	ACT	--	
214	TECH OFFICE	ANTI STATIC	--	RB	GB	PAINT	ACT	--	
215	OFFICE 4	LVT	--	RB	GB	PAINT	ACT	--	
216	OFFICE 3	LVT	--	RB	GB	PAINT	ACT	--	
217	STORAGE	LVT	--	RB	GB	PAINT	ACT	--	
300	STORAGE BUILDING	CONC	SEALED	RB	GB	PAINT	EXP. DECK	PAINT	

FINISH LEGEND:

ACT	ACOUSTICAL CEILING TILE	GB	GYPSUM BOARD
CPT	CARPET TILE	LVT	LUXURY VINYL TILE
CT	CERAMIC TILE	MRGB	MOISTURE RESISTANT GYPSUM BOARD
EPX	EPOXY	SS	STAINLESS STEEL
FRP	FIBERGLASS REINFORCED PLASTIC	RB	RUBBER BASE

WINDOW SCHEDULE

WINDOW TYPE	WINDOW SIZE (HxW)	WINDOW FRAME MATERIAL	PERFORMANCE AT NFRC STANDARD SIZE*			VLR %	NFRC RATED	GLASS TYPE	GLASS SPEC.
			U-VALUE	SHGC	VLT %				
W1	78" x 60"	ALUMINUM	0.34	0.23	54	13	Yes	LOW-E	SOLARBAN 70
W1.1	78" X 60"	ALUMINUM	0.34	0.23	54	13	Yes	LOW-E	SOLARBAN 70
W1.2	78" x 60"	ALUMINUM	0.34	0.23	54	13	Yes	LOW-E	SOLARBAN 70
W2	78x56	ALUMINUM	-	-	-	-	No	-	-

BASIS OF DESIGN SYSTEMS (SEE WINDOWS AND STOREFRONT SYSTEMS - CW DRAWINGS FOR COMPLETE DESIGN AND DETAILS):

ALUMINUM WINDOW-EXTERIOR:	ARCADIA T200	
ALUMINUM WINDOW- INTERIOR:	ARCADIA ULT-5920 SLIDING	
ALUMINUM STOREFRONT-EXTERIOR:	ARCADIA AFG-651T:	2" x 6" STOREFRONT SYSTEM
ALUMINUM STOREFRONT-INTERIOR AND EXTERIOR:	ARCADIA AFG-451T:	2" x 4 1/2" STOREFRONT SYSTEM
ALUMINUM STOREFRONT GLAZING DOOES:	ARCADIA WS512HD	SERIES HEAVY DUTY WIDE STILE

GLAZING NOTES AND SCHEDULE

NOTES:

1. GLAZING SHALL MEET THE MINIMUM FRAME LAP AND GLASS EDGE CLEARANCE PER CBC 2403.2.1 PROVIDE CONTINUOUS GLAZING RABBET AND GLASS RETAINER
2. NFRC COMPLIANCE: COMPLETE SITE-BUILT ASSEMBLIES SHALL CONFORM TO NFRC REQUIREMENTS AND TESTED AND LABELED TESTED IN ACCORDANCE WITH THAT STANDARD
3. NFRC LABELS SHALL REMAIN ON WINDOWS FOR VERIFICATION BY INSPECTOR
4. SAFETY GLAZING SHALL BE PROVIDED WHERE REQUIRED PER CBC 2406

SCHEDULE:

1. **GLS-1:** MONOLITHIC VISION GLASS, CLEAR, 1/4 INCH THICK, TEMPERED
2. **GLS-1A:** INSULATED GLASS UNIT, CLEAR, 1 INCH THICK ASSEMBLY, TEMPERED
2. **GLS-2:** INSULATED GLASS UNIT (IGU):
   GLASS SPEC: SOLARBAN 70
   A. OVERALL THICKNESS: 1 INCH
   B. ASSEMBLY: 1/4" GLASS ON EITHER SIDE + 1/2" AIR
   C. SPACER: ALUM., BLACK
   D. INNER AND OUTER VISION LIGHTS:
   E. NO.2 SURFACE: LOW-E COATING

- **MINIMUM PERFORMANCE REQUIREMENTS FOR GLASS:**
  1. THERMAL TRANSMITTANCE, WINTER - CENTER OF GLASS: 0.29, NOMINAL
  2. VISIBLE LIGHT TRANSMITTANCE: 70%, NOMINAL
  3. SOLAR HEAT GAIN COEFFICIENT: 0.39, NOMINAL
  4. VISIBLE LIGHT REFLECTANCE, OUTSIDE: 11%, NOMINAL

DOOR GENERAL NOTES

1. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER
2. INSTALL STOREFRONT MULLIONS AND HOLLOW METAL FRAMES WITH 1/4 INCH SHIM AND JOINT SEALANT AROUND PERIMETER OF FRAME
3. PROVIDE HEAD RECEIVERS AT ALUM. STOREFRONTS AS REQUIRED FOR STRUCTURAL AND FRAME DEFLECTION
4. JAMBS SHALL MAINTAIN 6 INCH MIN. FROM ADJACENT WALLS AND PARTITIONS U.N.O
5. WHERE REQUIRED, EXIT DEVICES (PANIC HARDWARE), SHALL BE INSTALLED WITH ACTIVATING MEMBER CENTERED AT A HEIGHT OF NO LESS THAN 34 INCH OR MORE THAN 44 INCH ABOVE THE FLOOR. PER CBC 11B-404.2.7 AND 11B-309.4

   EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
   A. THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE (CBC 1010.2.9.3, ITEM 3)
   B. THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.
6. PANIC HARDWARE IS REQUIRED FROM ROOMS AND CORRIDORS OF E OCCUPANCY WHERE OCCUPANT LOAD EXCEEDS 49
7. PRESSURE TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR AND INTERIOR DOORS AND 15 POUNDS FOR FIRE DOORS. PER CBC 11B-404.2.9
8. ALL OPERATING DOOR HARDWARE SHALL COMPLY WITH THE REQUIREMENTS IN CBC 11B-404.2.7, 1008.1.0 AND 11B-309.4 AND SHALL NOT REQUIRE MORE THAN 5 POUNDS OF FORCE
9. THRESHOLDS SHALL COMPLY WITH CBC 11B-404.2.5 AND SHALL BE 1/2" MAX IN HEIGHT AND BEVELED 1:2
10. DOOR AND GATE CLOSERS SHALL BE ADJUSTED TO FORM AN OPEN POSITION OF 12 DEGREES FROM THE LATCH IN 5 SECONDS MINIMUM. PER CBC 11B-404.2.8.1
11. SEE GENERAL SHEETS FOR DOOR SIGNAGE INFORMATION AND DETAILS ON SIGNS ON DOORS AND SIGNS RELATED TO EXIT AND ENTRANCE
12. CLASSROOM DOOR HARDWARE TO COMPLY WITH AB 211 PER DSA BULLETIN 11-05
13. NEW BUILDINGS SERVING K-12, ON NEW OR EXISTING CAMPUSES, SHALL INCLUDED LOCKS THAT ALLOW DOORS TO CLASSROOM AND ANY ROOM WITH AN OCCUPANCY OF 5 OR MORE PERSONS TO BE LOCKED FROM THE INSIDE PER CBC

IDENTIFICATION STAMP
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

LICENSED ARCHITECT
DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

CONSULTANT'S SEAL:

THIS DRAWING AND THE DESIGNS, ARRANGEMENTS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE THE UNPUBLISHED WORK OF YC+D ARCHITECTS AND SHALL REMAIN THE PROPERTY OF YC+D ARCHITECTS IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, COPIED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF YC+D ARCHITECTS. VISUAL CONTACT WITH THE ABOVE DRAWINGS OR ANY PART THEREOF, SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

WINDOW/STOREFRONT SCHEDULE AND FINISH SCHEDULE

SHEET NUMBER:

A701-02

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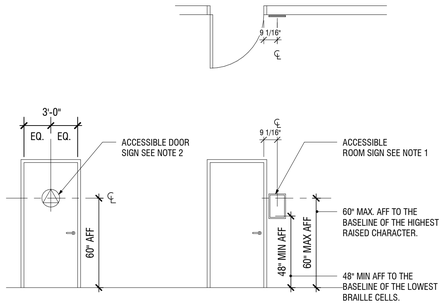
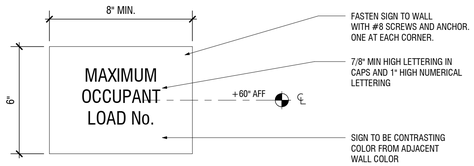
NOTES:

1. TACTILE ROOM & TACTILE EXIT SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE BASELINE OF THE HIGHEST RAISED CHARACTER AND 48" MIN. AFF TO THE BASELINE OF THE LOWEST BRAILLE CELLS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING IS LIMITED TO 90 DEGREE MOUNT SIGN 9" FROM EDGE OF DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES MOUNT SIGN DOOR WIDTH PLUS 9" FROM EDGE OF DOOR.

2. GEOMETRIC RESTROOM SIGNS SHALL BE INSTALLED CENTERED ON THE DOOR. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. THE COLOR AND CONTRAST OF THE SIGN SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.



10 DOOR SIGNAGE LOCATIONS
1/4" = 1'-0"

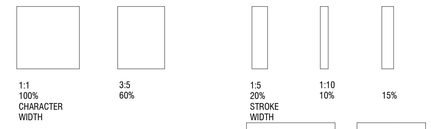


NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.

2. SEE CODE ANALYSIS PLANS FOR LOCATION.

4 OCCUPANT LOAD SIGN
3" = 1'-0"

1. CHARACTER DEPTH: RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR BACKGROUND.
2. CHARACTER CASE: CHARACTERS SHALL BE UPPERCASE.
3. CHARACTER STYLE: CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
4. CHARACTER PROPORTIONS: 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".
5. CHARACTER HEIGHT: 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".
6. STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
7. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
8. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.
9. FORMAT: TEXT SHALL BE IN A HORIZONTAL FORMAT.

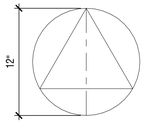


1 CHARACTER STANDARDS
1 1/2" = 1'-0"

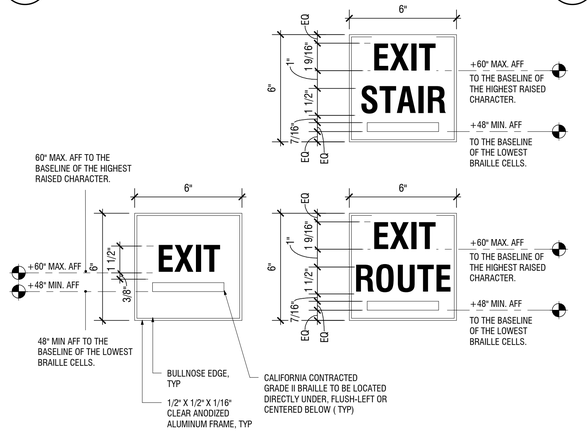
1. BRAILLE: CONTRACTED CALIFORNIA GRADE 2.
2. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
3. POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND ½ INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

NOTES:

1. GEOMETRIC RESTROOM SIGNS SHALL BE INSTALLED CENTERED ON THE DOOR. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
2. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
3. THE COLOR AND CONTRAST OF THE SIGN SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
4. EDGES OF SIGNS SHALL BE ROUNDED, 1/8" MAX CHAMFERED OR 1/16" MIN. EASED. VERTICES OF THE SIGNS TO BE RADIUSED 1/8" MIN TO 1/4" MAX.



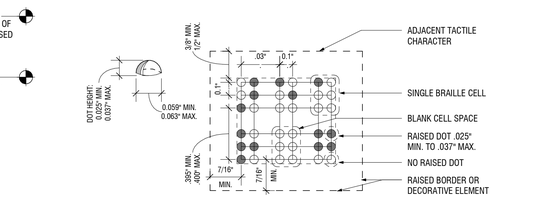
7 RESTROOM - UNISEX (ON DOOR) SIGN
1 1/2" = 1'-0"



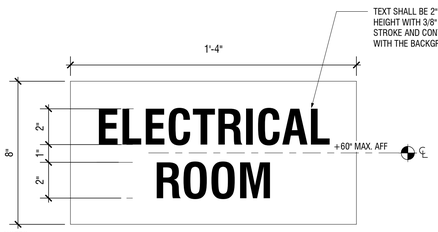
NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. COMPLY WITH ARTICLE 4.30 & A4.30 OF ADAAG. (WHEN MOUNTING ON GLAZING USE SILICONE ADHESIVE. PLACE SIGN BACK TO BACK WITH ROOM ID SIGN OR TACTILE BUILDING I.D. SIGN.)

2. SEE CODE ANALYSIS PLANS FOR LOCATION.

5 TACTILE EXIT SIGNAGE
3" = 1'-0"

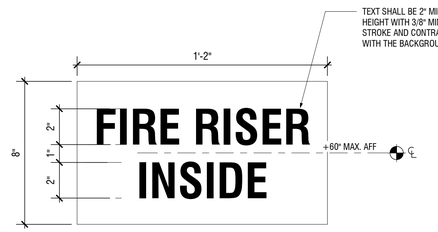


2 BRAILLE PROPORTIONS AND TEMPLATE
12" = 1'-0"



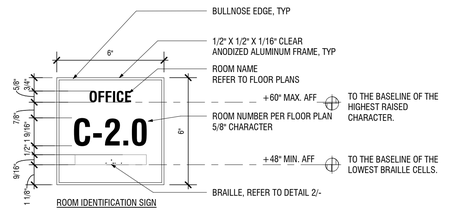
NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.
2. SIGNS SHALL BE INSTALLED AT 5'-0" AFF CENTERED ON THE OUTSIDE OF DOOR.

12 ELECTRICAL ROOM SIGN
3" = 1'-0"



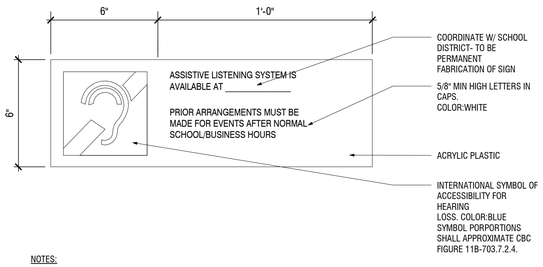
NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.
2. SIGNS SHALL BE INSTALLED AT 5'-0" AFF CENTERED ON THE OUTSIDE OF DOOR.

9 FIRE SPRINKLER RISER SIGN
3" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS. COMPLY WITH ARTICLE 4.30 & A4.30 OF ADAAG. (WHEN MOUNTING ON GLAZING USE SILICONE ADHESIVE. PLACE SIGN BACK TO BACK WITH ROOM ID SIGN OR TACTILE BUILDING I.D. SIGN.)
2. SEE CODE ANALYSIS PLANS FOR LOCATION.

6 BUILDING / ROOM IDENTIFICATION SIGN
3" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC W/ 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. COMPLY W/ ARTICLE 4.30 & A4.30 OF ADAAG.
2. SEE CODE ANALYSIS PLANS FOR LOCATIONS.
3. FOR SYSTEM LOCATION, SEE ELECTRICAL DRAWINGS AND SPECS.
4. WHERE SIGNAGE IS INSTALLED ON GLASS PROVIDE BLANK SIGNAGE ON OPPOSITE SIDE BEING EQUAL SIZE AND COLOR MASK ADHESIVE- SEE 1.2/- FOR MORE INFO

3 ASSISTED LISTENING SYSTEM SIGN
3" = 1'-0"

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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LICENSED ARCHITECT
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03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

CONSULTANT'S SEAL:

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REV	ISSUE	DATE	TO

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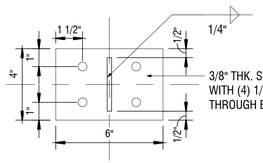
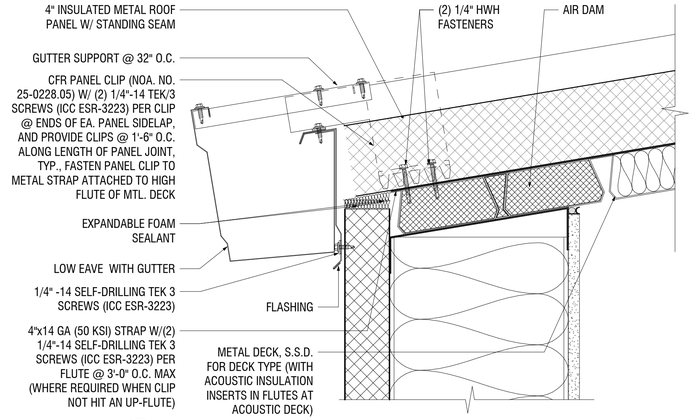
SHEET TITLE
SIGNAGE DETAILS

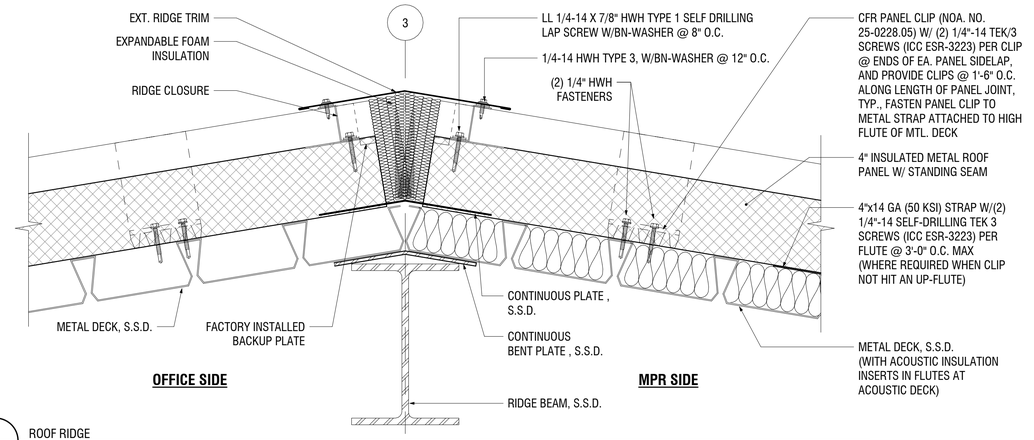
SHEET NUMBER:
A703-02



10 STEEL PLATE DETAIL
SEE 5/A800-02 — 3" = 1'-0"

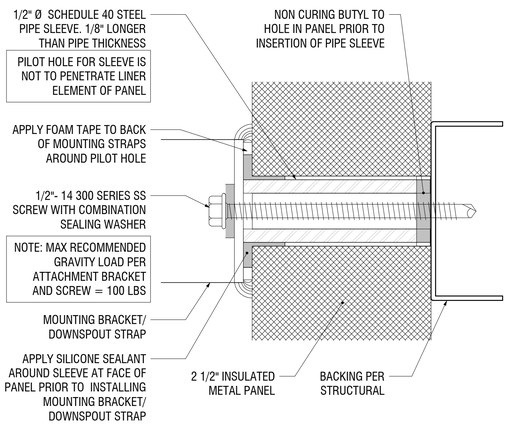


7 TOP OF LOW WALL AND GUTTER
SEE 1/A400-02 — 3" = 1'-0"

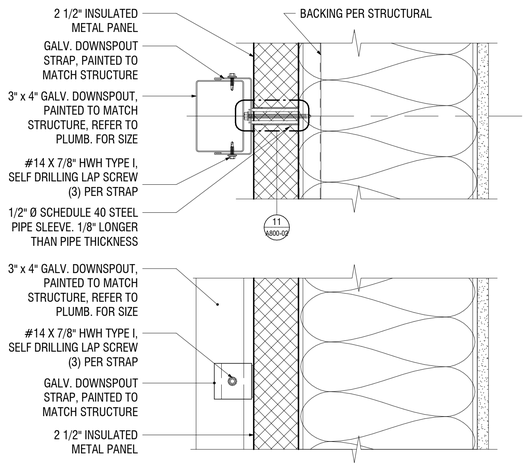


4 ROOF RIDGE
SEE 3/A400-02 — 3" = 1'-0"

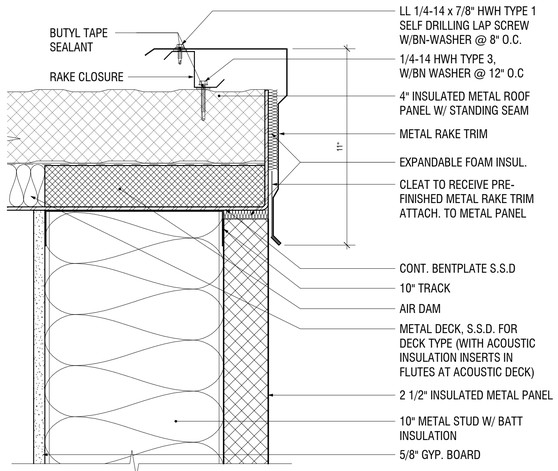
DO NOT POSITION SCREWS WITHIN 1-1/2" OF PANEL JOINTS



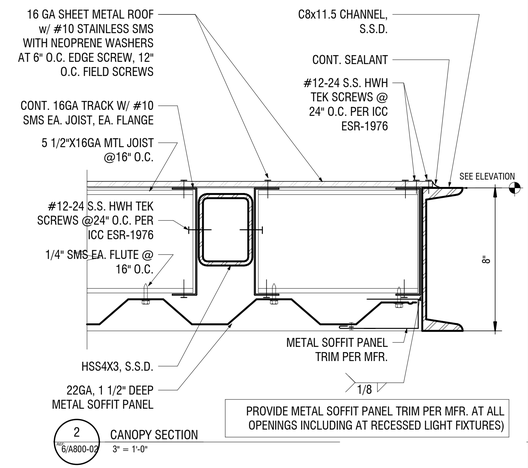
11 PIPE SLEEVE
SEE 8/A800-02 — 12" = 1'-0"



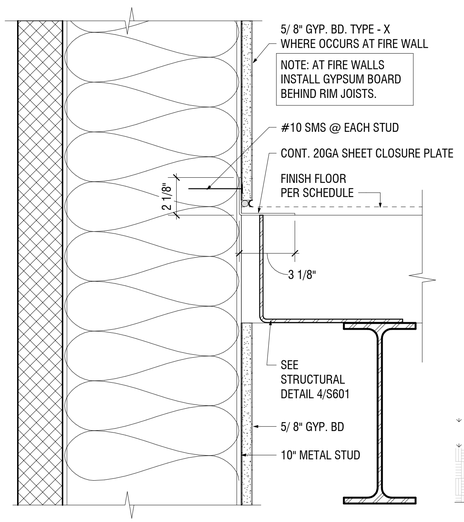
8 DOWNSPOUT WALL ATTACHMENT
SEE — 3" = 1'-0"



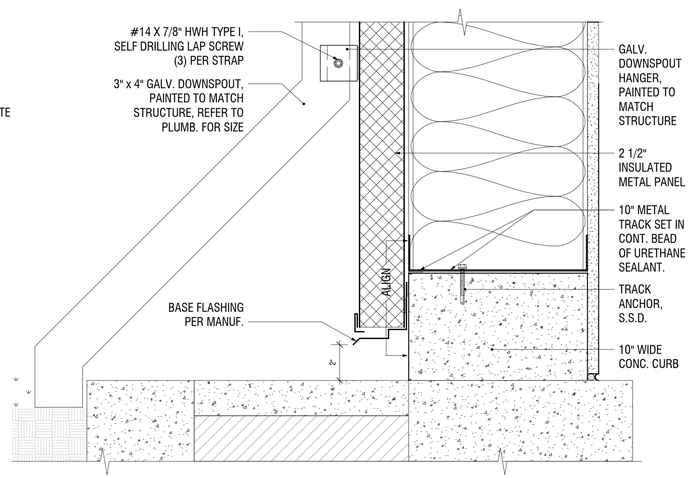
5 WALL AT RAKE
SEE 2/A401-02 — 3" = 1'-0"



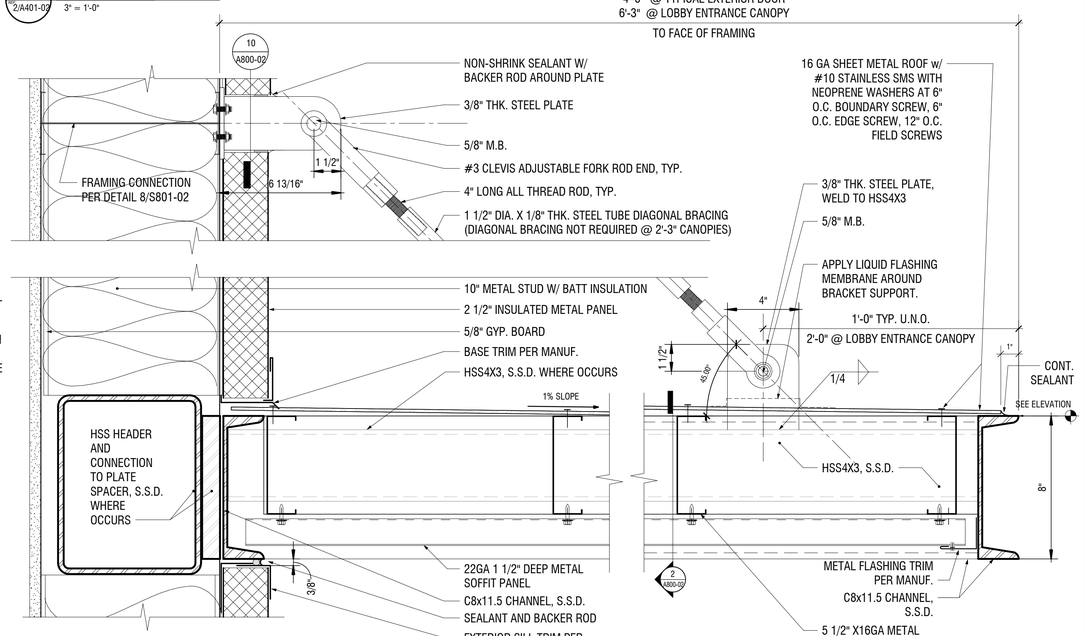
2 CANOPY SECTION
SEE 6/A800-02 — 3" = 1'-0"



12 SECOND FLOOR TO EXTERIOR WALL
3" = 1'-0"



9 BASE OF WALL
SEE 1/A401-02 — 3" = 1'-0"



6 CANOPY TO FACADE ATTACHMENT AT ENTRANCE
SEE 1/A400-02 — 3" = 1'-0"

3 CANOPY EDGE
SEE 1/A400-02 — 3" = 1'-0"

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CONSULTANT:

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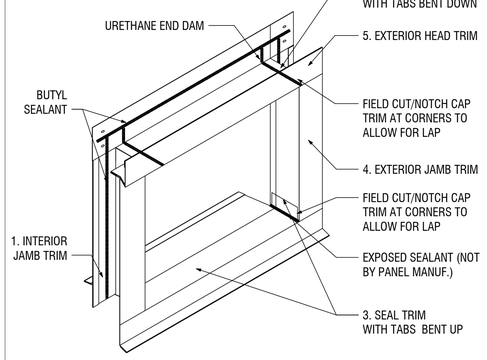
EXTERIOR DETAILS

SHEET NUMBER:

A800-02

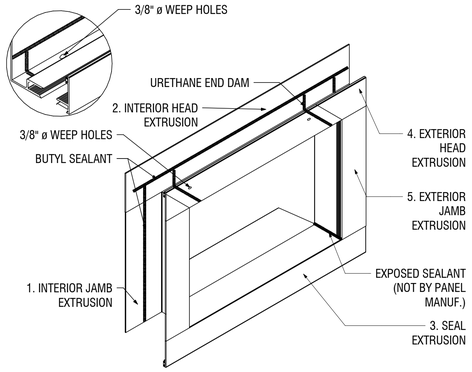


NOTE:
WINDOWS MUST BE RECESSED

TRIM INSTALLATION SEQUENCE:

1 INTERIOR JAMB TRIMS
2 INTERIOR HEAD TRIM WITH TABS BENT DOWN (NOTCHED)
3 SILL TRIM WITH TABS BENT UP (NOTCHED)
4 EXTERIOR JAMB TRIMS
5 EXTERIOR HEAD TRIM

TRIM ASSEMBLY - FRAMED OPENING



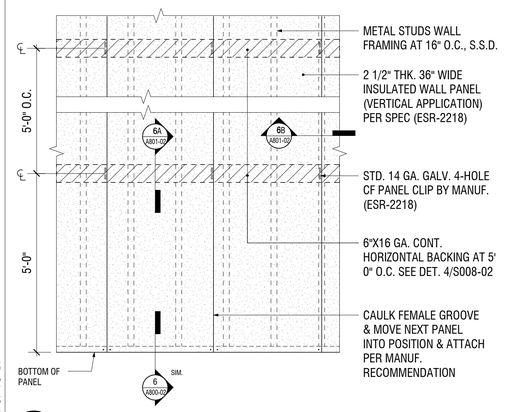
NOTE:
WINDOWS MUST BE RECESSED

EXTRUSION INSTALLATION SEQUENCE:

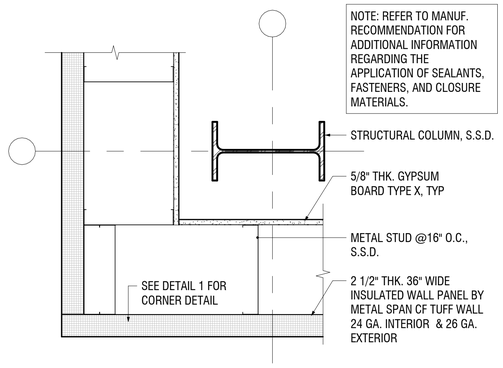
1 INTERIOR JAMB EXTRUSIONS
2 INTERIOR HEAD EXTRUSION (NOTCHED)
3 SILL EXTRUSION (NOTCHED)
4 EXTERIOR HEAD EXTRUSION (NOTCHED
5 EXTERIOR JAMB EXTRUSIONS

EXTRUSION ASSEMBLY - FRAMED OPENING

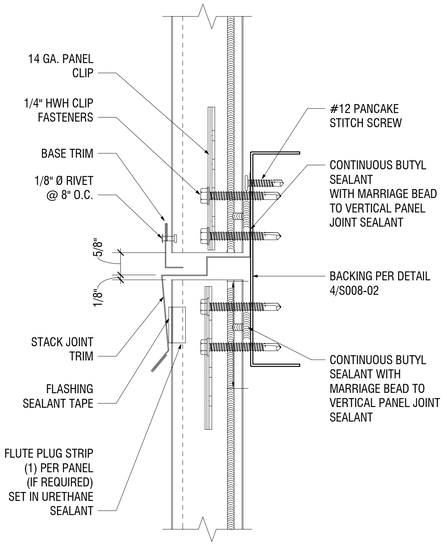
10 TYPICAL INSULATED WALL PANEL DETAILS @ OPENING
3" = 1'-0"



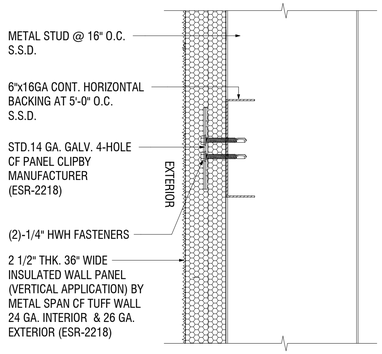
11 PARTIAL FRAMING/ INSULATED METAL WALL PANEL VERTICAL INSTALLATION, TYPICAL
1/2" = 1'-0"



12 TYPICAL INSULATED WALL PANEL FLASHING
1 1/2" = 1'-0"

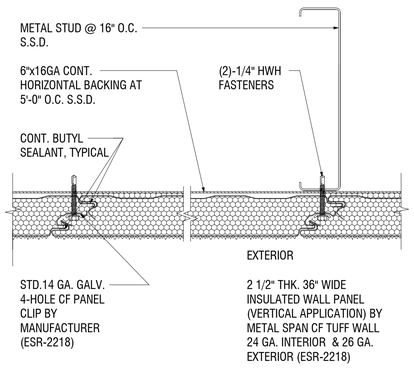


4 STACK JOINT WITH TRIM
6" = 1'-0"



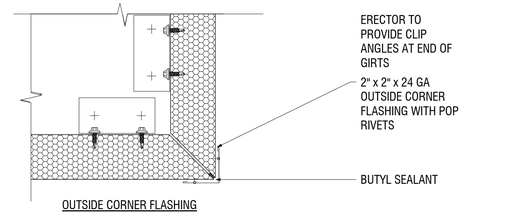
SECTION DETAIL '6A'

NOTE:
REFER TO MANUF. RECOMMENDATION FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS,AND CLOSURE MATERIALS.

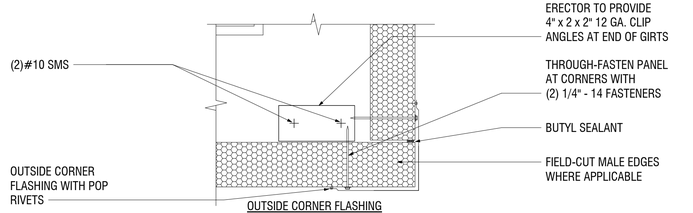


PLAN DETAIL '6B'

6 INSULATED METAL PANEL - VERTICAL APPLICATION
6" = 1'-0"
11/A801-02

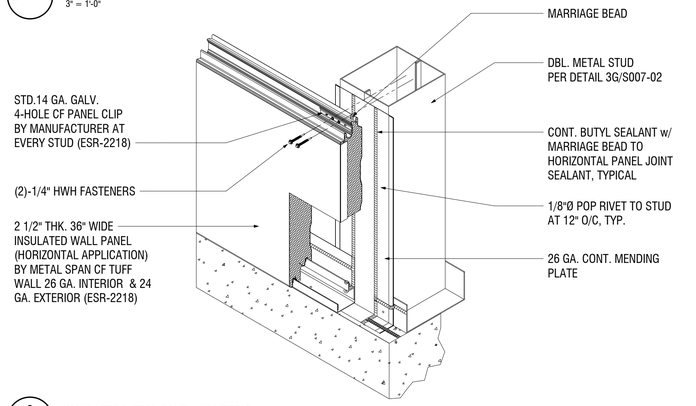


OUTSIDE CORNER FLASHING

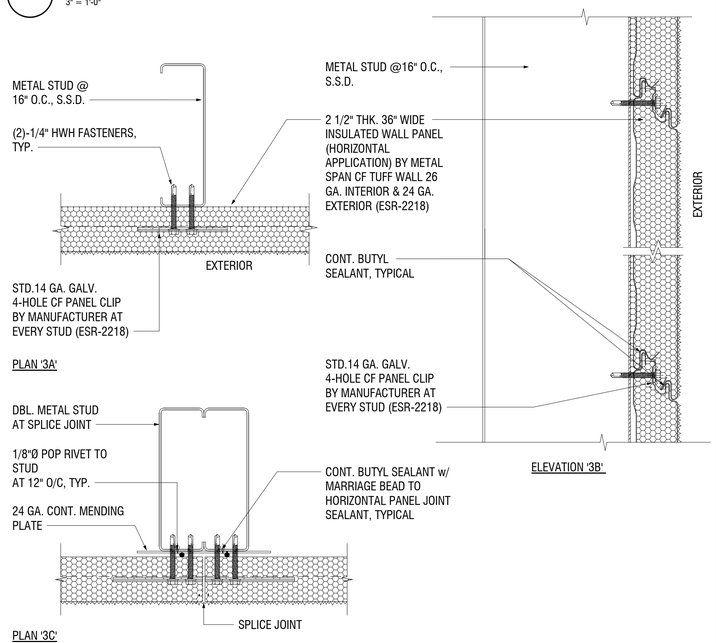


OUTSIDE CORNER FLASHING

1 TYPICAL INSULATED WALL PANEL CORNER DETAILS
3" = 1'-0"



2 INSULATED METAL PANEL ISOMETRIC
3" = 1'-0"



PLAN '3A'

ELEVATION '3B'

PLAN '3C'

3 TYPICAL INSULATED WALL PANEL DETAILS
3" = 1'-0"

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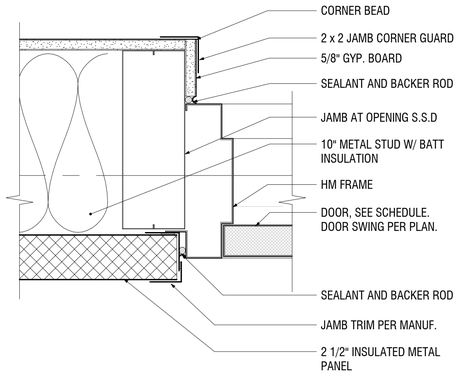
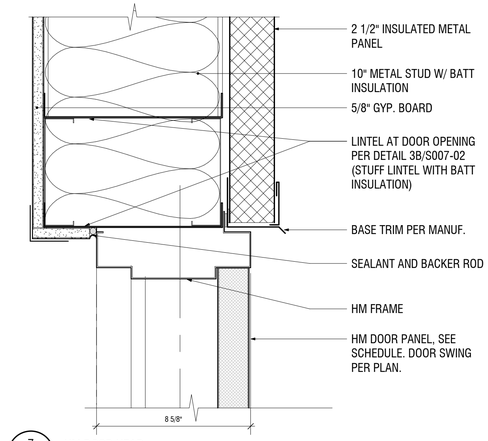
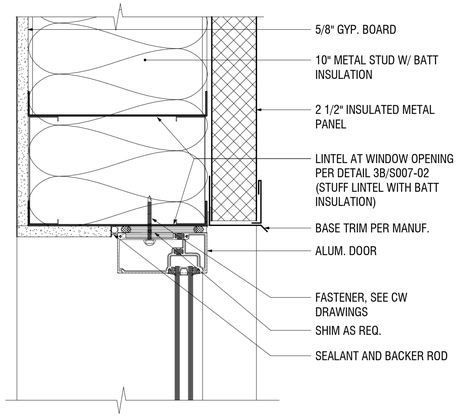


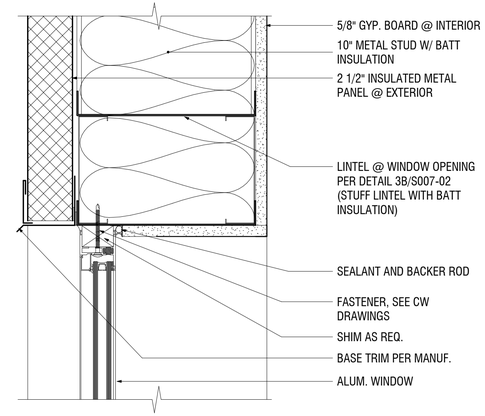
10 REV — 2/A700-02 — HM JAMB @ SIDELITE (SIMILAR @ DOOR)
3" = 1'-0"



7 REV — 2/A700-02 — HM DOOR HEAD
3" = 1'-0"



4 REV — 2/A700-02 — STOREFRONT DOOR HEAD
3" = 1'-0"



1 REV — 1/A701-02 — WINDOW HEAD
3" = 1'-0"

11 REV — EXTERIOR LOUVER - HEAD
3" = 1'-0"

8 REV — 1/A400-02 — THRESHOLD AT DOOR
3" = 1'-0"

5 REV — 2/A400-02 — ALUM STOREFRONT SILL
3" = 1'-0"

2 REV — 1/A701-02 — WINDOW SILL
3" = 1'-0"

12 REV — EXTERIOR LOUVER - SILL
3" = 1'-0"

9 REV — EXTERIOR LOUVER -JAMB
3" = 1'-0"

6 REV — 2/A700-02 — STOREFRONT JAMB
3" = 1'-0"

3 REV — WINDOW JAMB - CORNER
3" = 1'-0"

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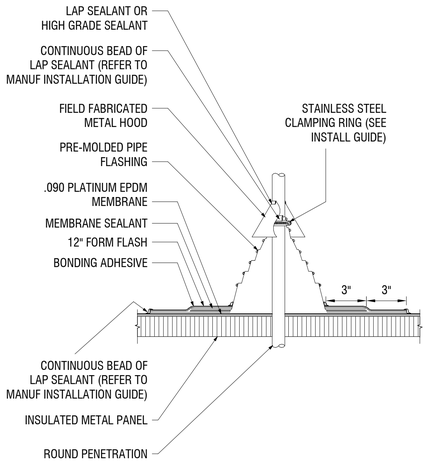


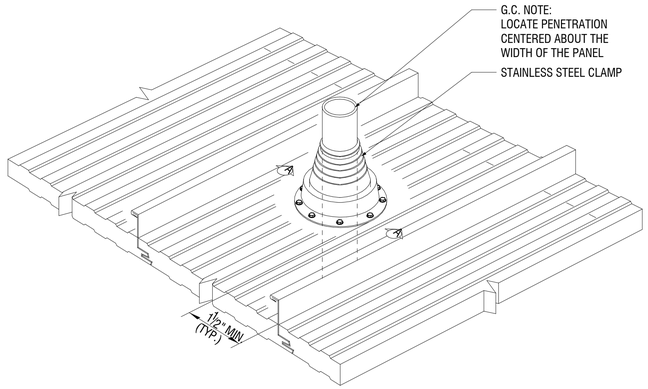
NOTES:

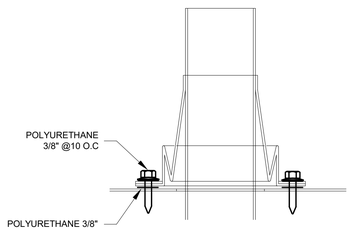
1. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
2. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
3. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
4. 12" FORM FLASH EXTENDING 1/4" (6 mm) FROM PIPE FLASHING WALL TO 3" (76 mm) BEYOND PIPE FLASHING.
5. APPLY LAP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING. PRE-MOLDED PIPE FLASHING FITS 1" (25 mm) - 6" (152 mm) PENETRATION SIZES.
6. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F.

PIPE BOOT DETAIL

NOTE:

FOR ROOF PITCHES GREATER THAN 4:12 CONSIDER USING NEXT LARGER SIZE BOOT. (DO NOT INSTALL OVER PANEL RIBS)





SECTION AA

STEPS FOR INSTALLING PIPE BOOT FLASHING:

1.) CUT PIPE BOOT TO PIPE DIAMETER MARKED ON THE CONE (INCHES AND MILLIMETERS). ALLOW 1/2" [13] STRAIGHT COLLAR AGAINST THE PIPE FOR MAXIMUM SEALING.

2.) CLEAN AREA FLASHING IS TO BE INSTALLED AGAINST THE PANEL THOROUGHLY.

3.) SLIDE BOOT OVER PIPE TO BE FLASHED.

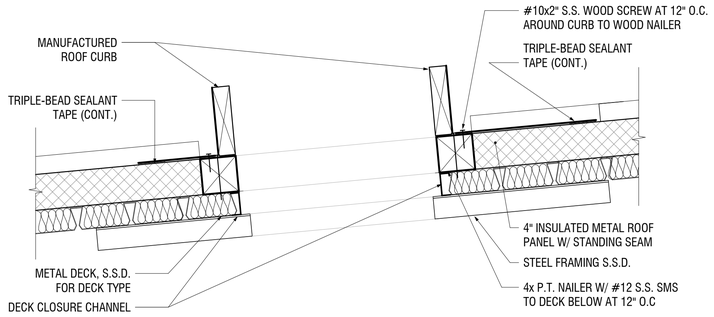
4.) APPLY A 3/8" □ BEAD OF POLYURETHANE TO THE UNDER SIDE OF THE RIBBED ALUMINUM BASE.

5.) PRESS FLASHING TO CONTOURS OF ROOF PANEL. A BLUNT TOOL MAY BE USED TO PRESS BOOT INTO PLACE IN SHARPLY ANGLED AREAS.

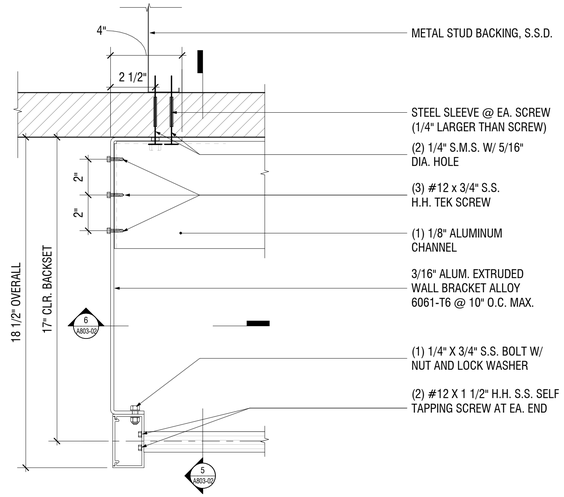
6.) FASTEN FLASHING AS DESCRIBED IN DETAIL. WHILE FASTENING INSPECT BASE FOR GAPS BETWEEN THE PIPE BOOT BASE AND ROOF PANEL. TOOL EXCESS POLYURETHANE SEALANT INTO THE EDGE OF THE BOOT BASE.

7.) USE 3/16" DIA. BULB-TITE RIVETS OVER NAILBASE INSULATION

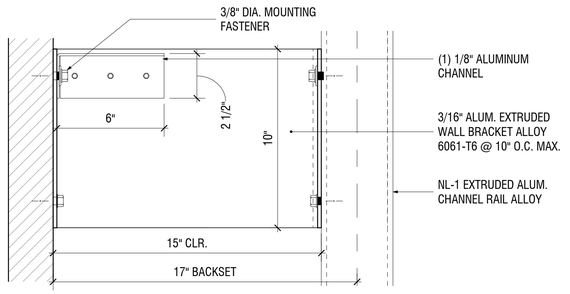
7 — ROOF PENETRATION - PIPE BOOT DETAIL
3" = 1'-0"



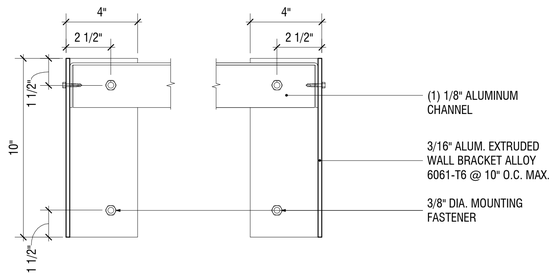
3 — ROOF CURB
1 1/2" = 1'-0"



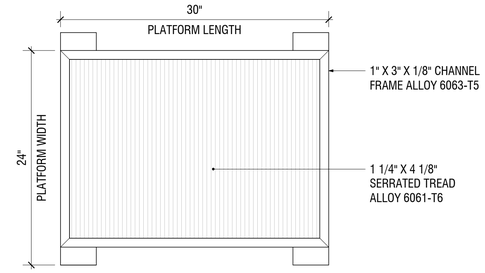
4 — ACCESS LADDER INTERMEDIATE BRACKET PLAN
3" = 1'-0"



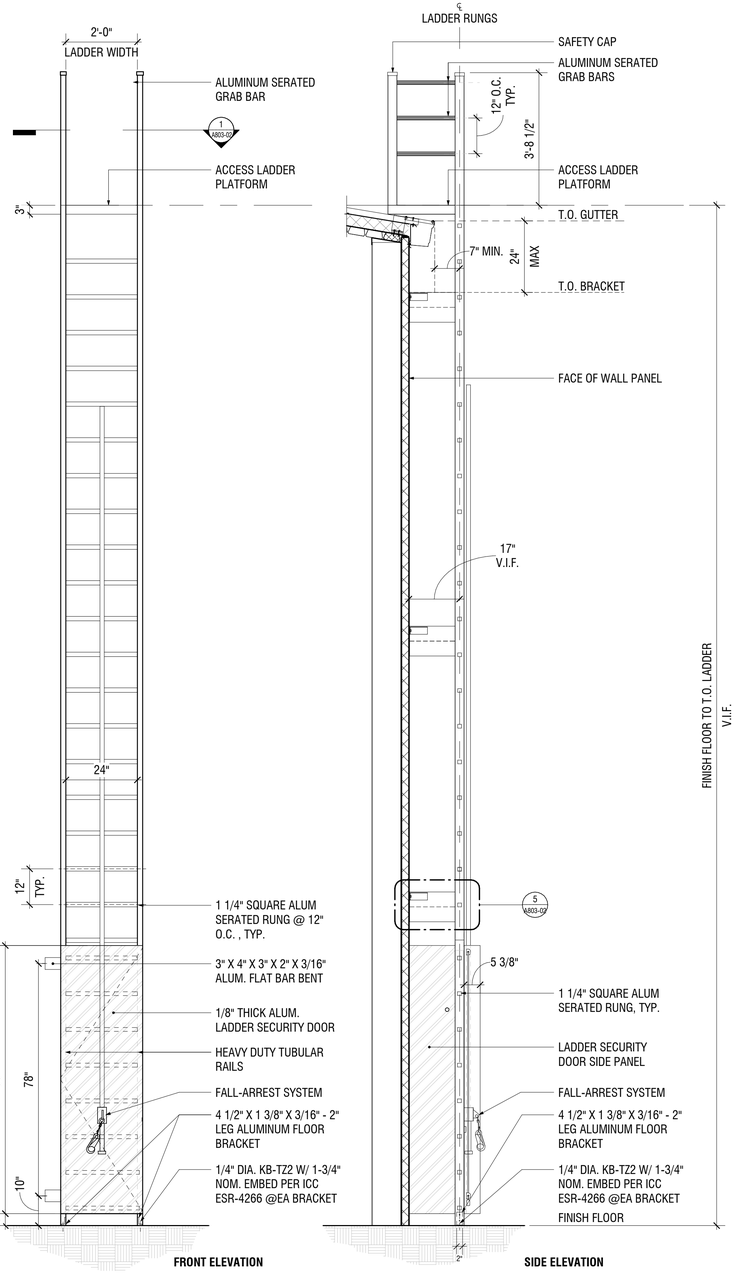
5 (2/A803-02) — ACCESS LADDER INTERMEDIATE BRACKET ELEVATION
3" = 1'-0"



6 (4/A803-02) — ACCESS LADDER INTERMEDIATE BRACKET SECTION
3" = 1'-0"



1 (2/A803-02) — ACCESS LADDER PLATFORM PLAN
1 1/2" = 1'-0"



2 — ROOF ACCESS LADDER ELEVATIONS
1/2" = 1'-0"

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yc+d ARCHITECTURE
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E: HELLO@YCPLUSD.COM

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LICENSED ARCHITECT — DARA DOURAGHI — C-23044 — 03-31-2027 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT:

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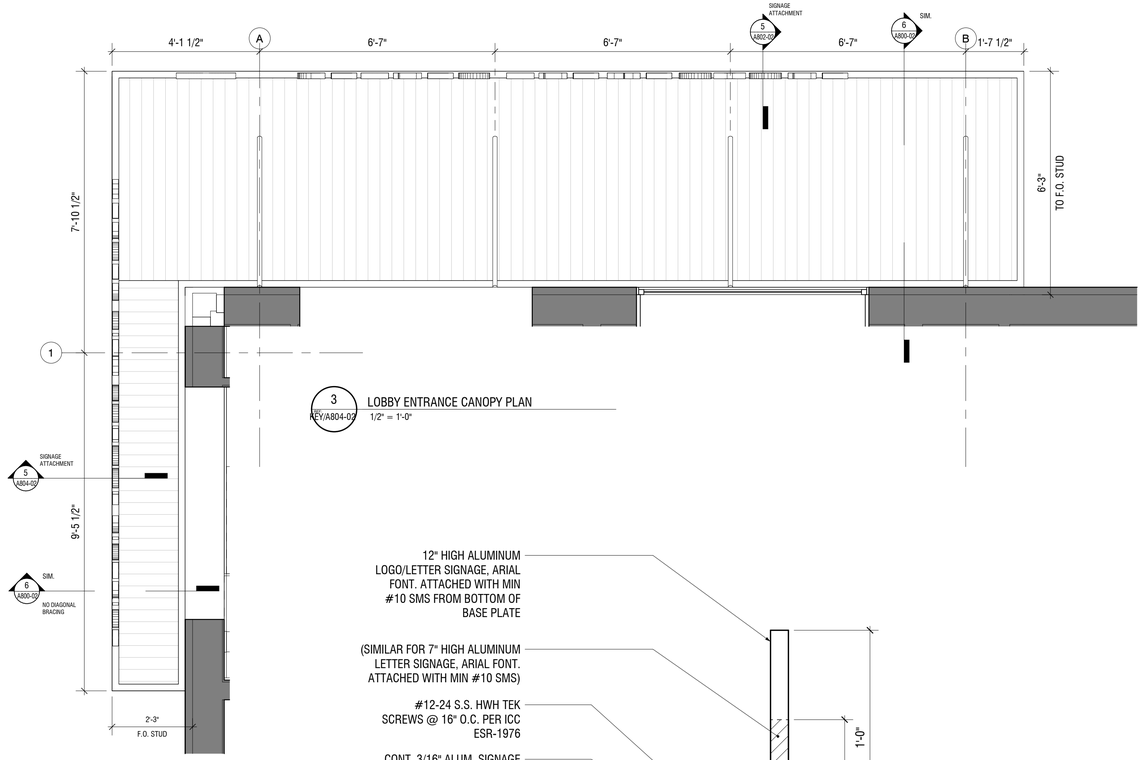
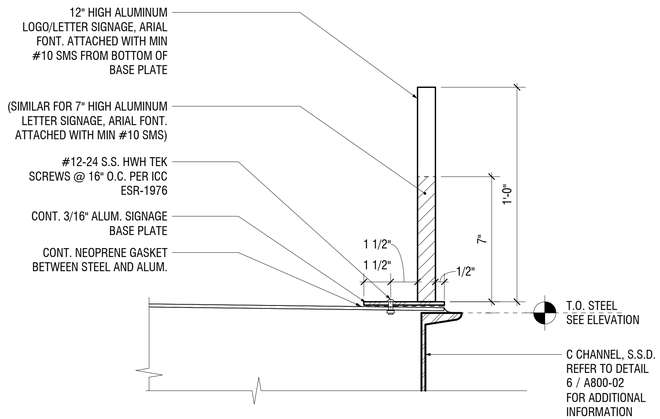
SHEET NUMBER:

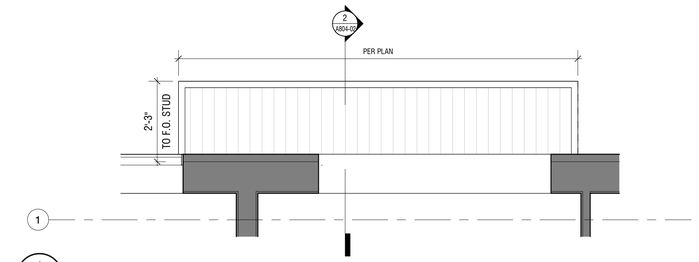
A803-02



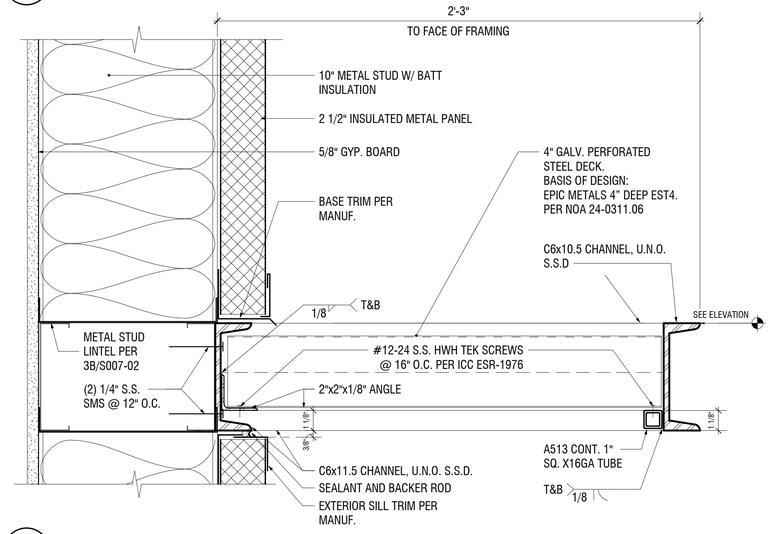
3 LOBBY ENTRANCE CANOPY PLAN
KEY/A804-02 1/2" = 1'-0"



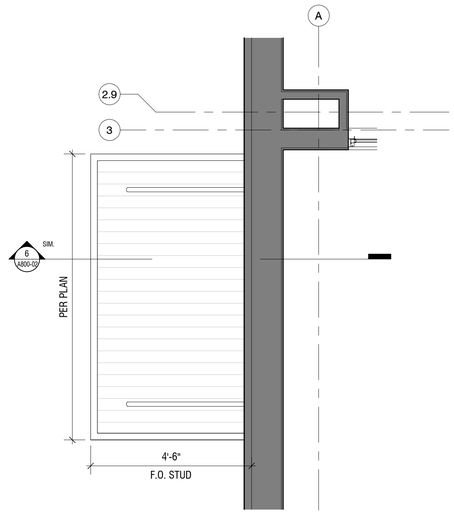
5 ALUM. LETTER SIGNAGE ATTACHMENT
3/A804-02 3" = 1'-0"



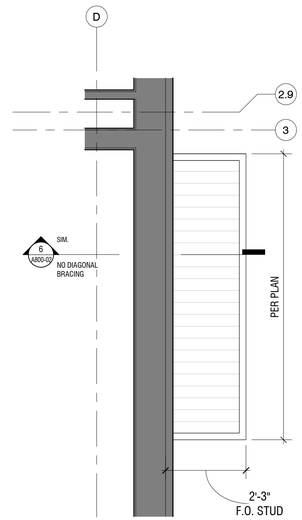
1 TYPICAL SUN SHADE CANOPY PLAN
KEY/A804-02 1/2" = 1'-0"



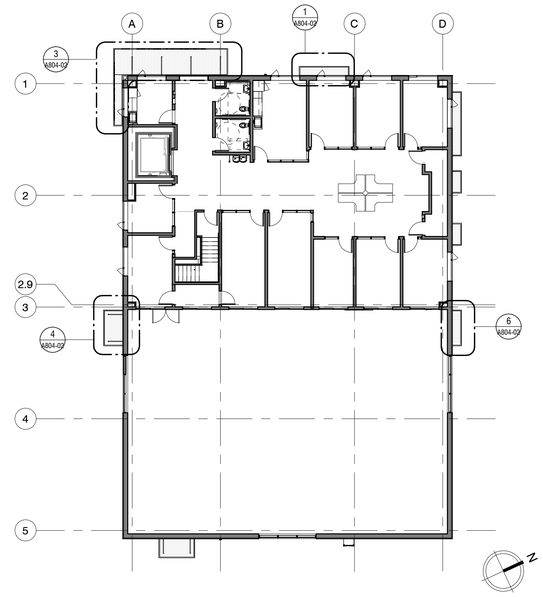
2 SUN SHADE CANOPY TO FACADE ATTACHMENT
2/A400-02 3" = 1'-0"



4 TYPICAL EXTERIOR DOOR CANOPY PLAN
KEY/A804-02 1/2" = 1'-0"



6 EXT. DOOR CANOPY ALONG GRIDLINE D
KEY/A804-02 1/2" = 1'-0"



KEY CANOPY KEY PLAN
1/16" = 1'-0"

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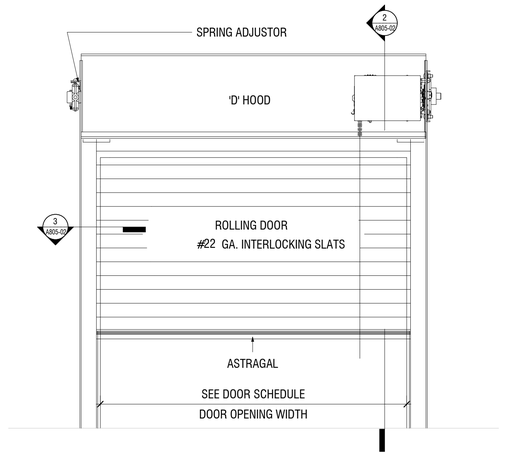
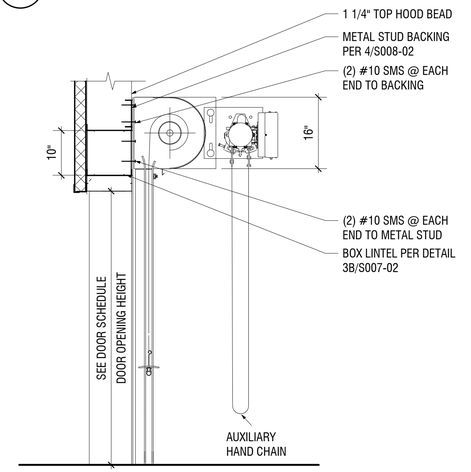
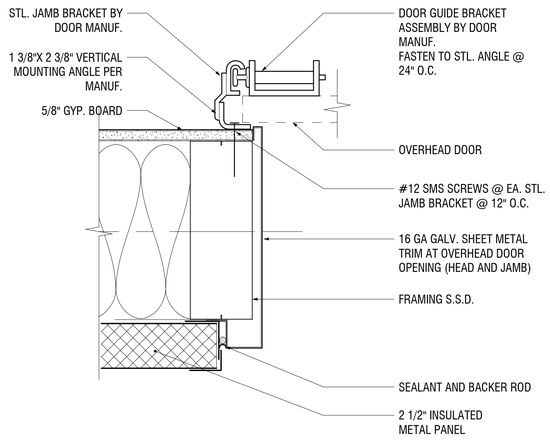


1 MOTORIZED OVERHEAD DOOR - ELEVATION
3/4" = 1'-0"



2 MOTORIZED OVERHEAD DOOR - SECTION
2/A700-02 3/4" = 1'-0"



3 OVERHEAD DOOR JAMB
2/A700-02 3" = 1'-0"

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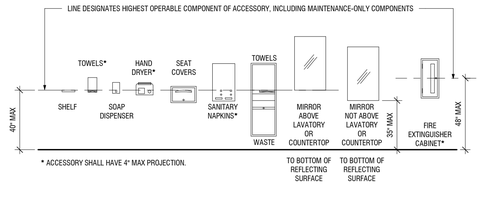
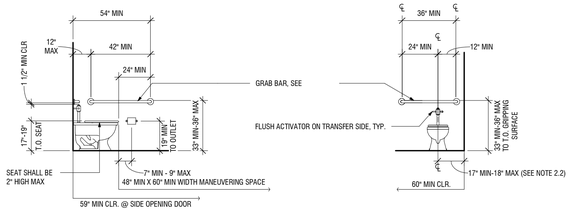


ELEVATION VIEW

GENERAL NOTES:

1.1. SEAL AROUND ALL TOILET ROOM EQUIPMENT.
1.2. CONTROLS AND 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 GREATER THAN 5 LBF. LEVER-TYPE, PUSH-TYPE AND ELECTRONIC FAUCETS SHALL COMPLY WITH CBC 11B-309.4.
1.3. MAXIMUM DIMENSION SHOWN ABOVE IS TO ALL OPERABLE PARTS OF THE RESTROOM ACCESSORY.
1.4 REFER TO TABLE FOR DIMENSIONS FOR CHILDREN'S USE BASED ON AGE. WHERE BUILDING ELEMENTS SUCH AS COAT HOOKS, LOCKERS OR OPERABLE PARTS ARE DESIGNED FOR USE PRIMARILY BY CHILDREN, THE SUGGESTED DIMENSIONS OF TABLE 11B-308.4 SHALL BE PERMITTED. THESE DIMENSIONS APPLY TO EITHER FORWARD OR SIDE REACHES.

2022 CBC
11B-606.1 AND 11B-603.3



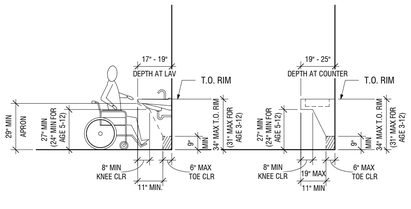
SIDEWALL

GENERAL NOTES:

2.1. CONFIGURATION FOR SINGLE-OCCUPANCY TOILET, FLOOR MOUNT
2.2. DIMENSIONS SHOWN HERE ARE FOR ADULT USE.
2.3. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE & CLEARANCES REQUIRED AT OTHER FIXTURES, AND TURNING SPACE. NO FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.
2.4. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-309.4 AND SHALL BE 7 INCHES MIN AND 9 INCHES MAX IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES MIN ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

2022 CBC
11B-604 AND 11B-609

REAR WALL

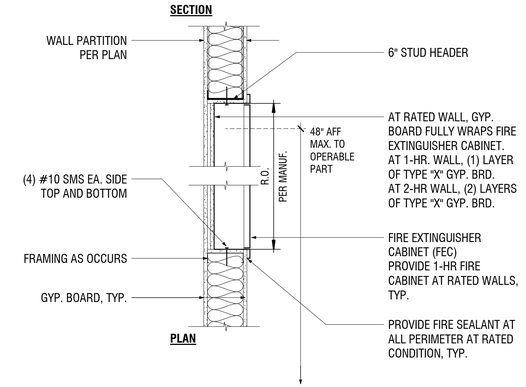


SIDE AT LAVATORY **SIDE AT SINK**

GENERAL NOTES:

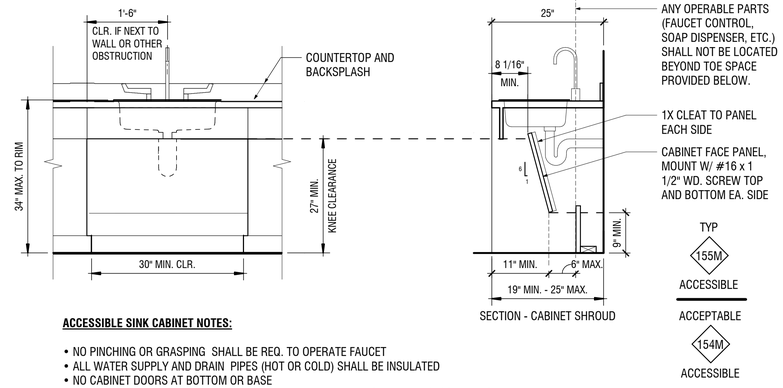
3.1. ALL WATER AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED OR CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE LAVATORY.
3.2. FAUCET CONTROLS SHALL BE OPERABLE W/ ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST. FORCE REQ'D FOR CONTROLS SHALL BE <5 LBS.

2022 CBC
11B-606.3, 11B-306, 11B-309



10 ACCESSIBLE MOUNTING HEIGHTS - ADULT
1/4" = 1'-0"

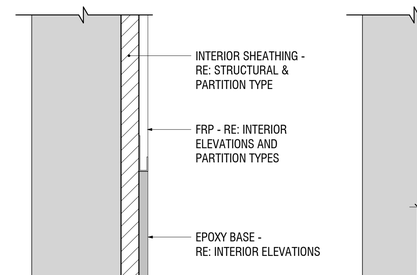
1 FIRE EXTING. CABINET (SIMILAR FOR AED CABINET)
1" = 1'-0"



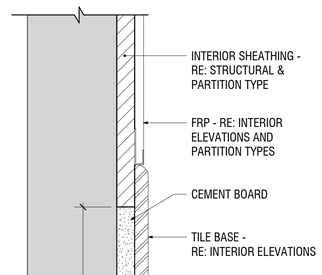
ACCESSIBLE SINK CABINET NOTES:

- NO PINCHING OR GRASPING SHALL BE REQ. TO OPERATE FAUCET
- ALL WATER SUPPLY AND DRAIN PIPES (HOT OR COLD) SHALL BE INSULATED
- NO CABINET DOORS AT BOTTOM OR BASE
- FLOORING AND FLOORING BASE SHALL CONTINUE UNDER THE CABINET RECESS AND NOT BE INTERRUPTED
- SEE PLAN FOR LOCATIONS

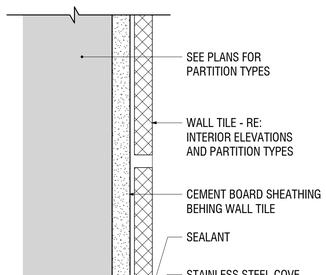
11 ACCESSIBLE SINK BASE CABINET
3/4" = 1'-0"



- **EPOXY WALL BASE/**
- **EPOXY FINISH FLOOR /**
- **FRP WALL FINISH**

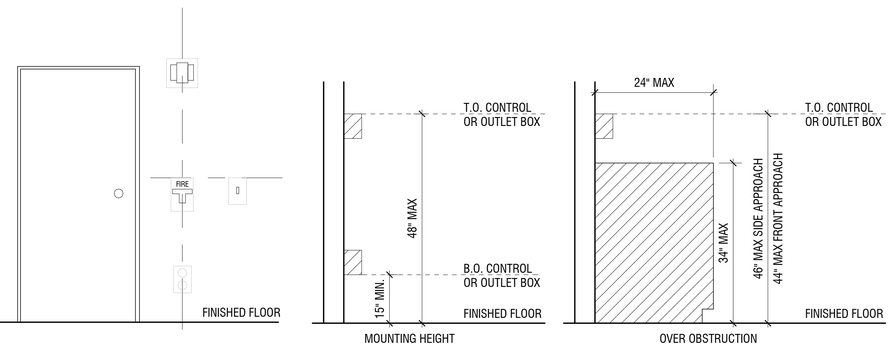


- **TILE WALL BASE/**
- **TILE FINISH FLOOR/**
- **FRP WALL FINISH**



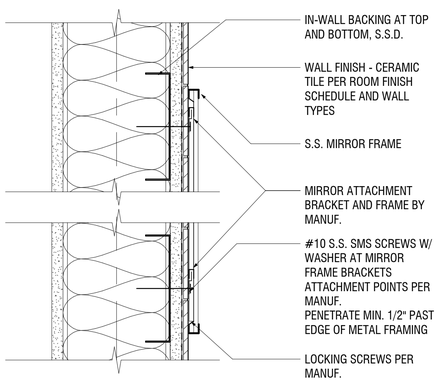
- **TILE WALL BASE/**
- **CONCRETE FINISH FLOOR/**
- **TILE WALL FINISH**

5 INTERIOR WALL BASE
6" = 1'-0"



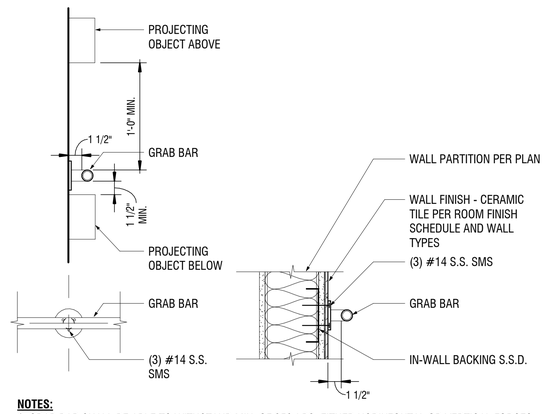
CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED IN ARCHITECTURAL PLANS AND SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WIRTTEN REQUEST FOR INFORMATION (RFI) FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER-CONTRACTOR SHALLE INCLUDE ALL COSTS IN BASE BID.

12 DEVICE ALIGNMENT & MOUNTING HEIGHT DETAILS
1 1/2" = 1'-0"



NOTE: SHIM AS REQ.

6 MIRROR ATTACHMENT
3" = 1'-0"



NOTES:

1. GRAB BAR SHALL BE ABLE TO WITHSTAND MIN. OF 250-LBS. EITHER HORIZONTAL OR VERTICAL FORCES APPLIED AT ANY POINT.
2. GRAB BAR SHALL HAVE OUTSIDE DIAMETER 1 1/4" MIN. 2" MAX. TO BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS WITH ROUNDED EDGES. GRAB BARS SHALL NOT ROTATE WITHIN FITTING.

3 GRAB BAR MOUNTING DETAIL
1 1/2" = 1'-0"

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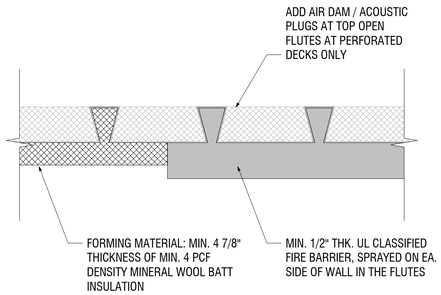
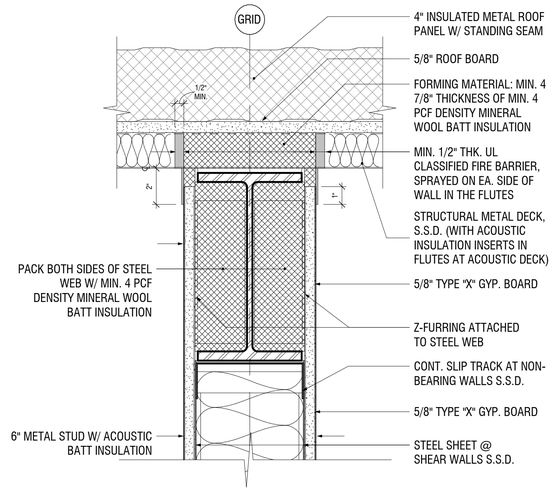
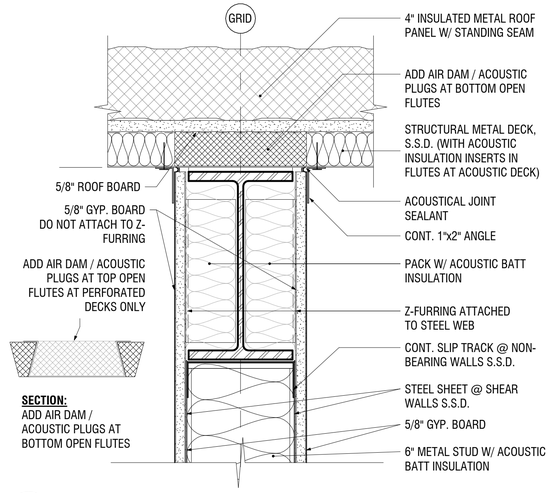


UL SYSTEM:
HW-D-0043 (1-HOUR, FIRE RATING)

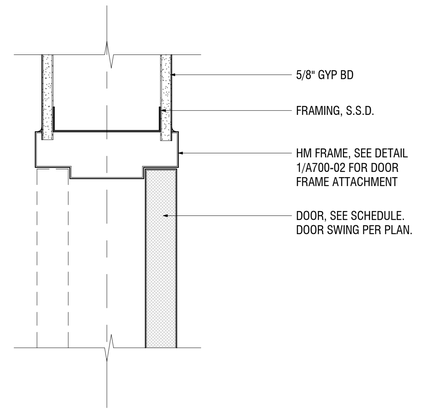


10 REF. — FIRE RATED HEAD OF WALL DETAIL
3" = 1'-0"

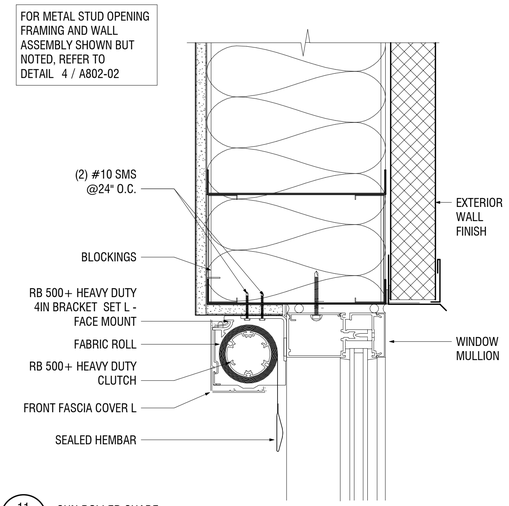


SECTION:
ADD AIR DAM / ACOUSTIC PLUGS AT BOTTOM OPEN FLUTES

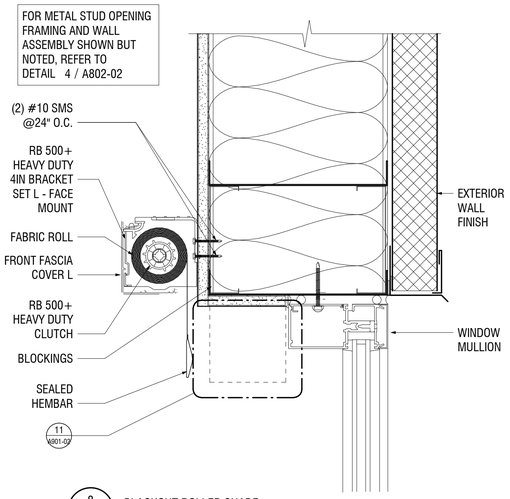
4 REF. — NON-RATED PARTI WALL HEAD @ BEAM
3" = 1'-0"



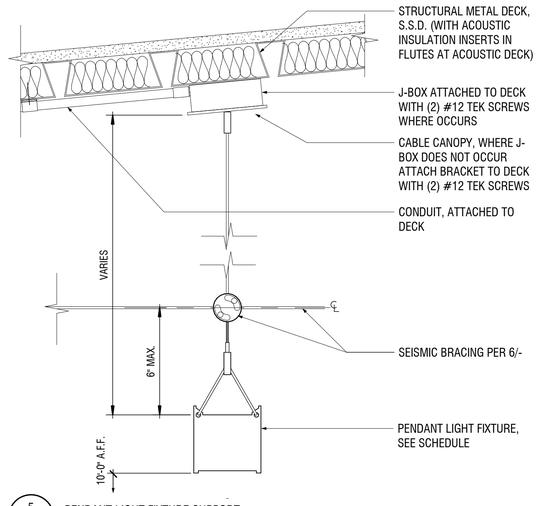
1 2/A700-02 — INTERIOR HM DOOR HEAD/JAMB
3" = 1'-0"



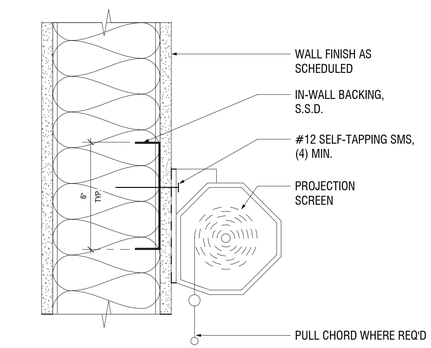
11 8/A901-02 — SUN ROLLER SHADE
3" = 1'-0"



8 REF. — BLACKOUT ROLLER SHADE
3" = 1'-0"



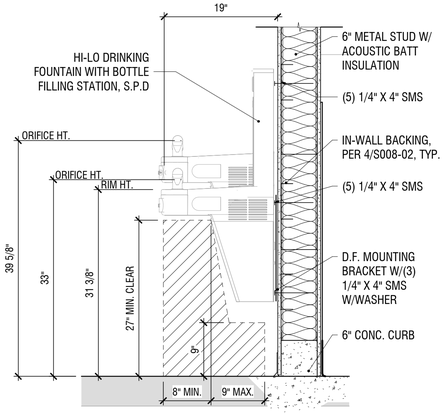
5 REF. — PENDANT LIGHT FIXTURE SUPPORT
3" = 1'-0"



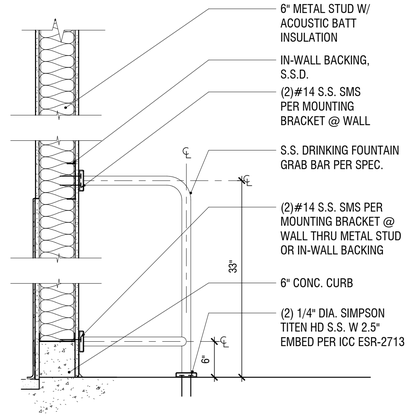
2 REF. — WALL MOUNT PROJECTOR SCREEN
3" = 1'-0"

COMPLY WITH DRINKING FOUNTAIN WATER FLOW REQUIREMENT PER C8C 11B-602.6

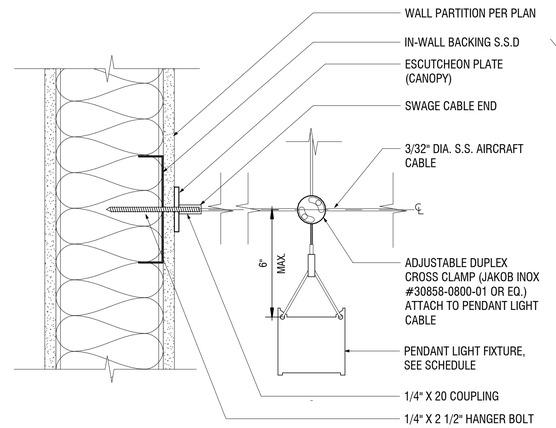
THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.



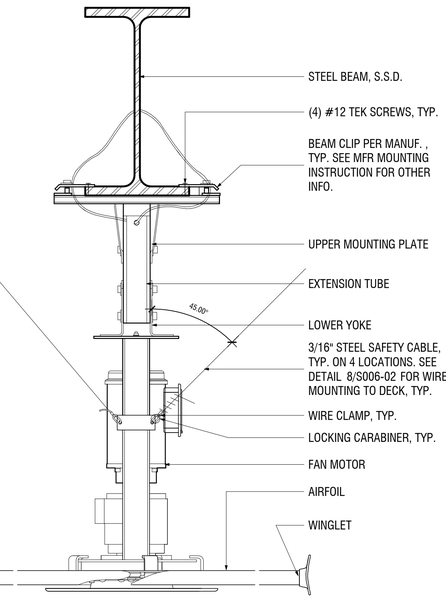
12 3/A402-03 — SECTION AT DRINKING FOUNTAIN
1" = 1'-0"



9 REF. — BARRIER RAIL
1" = 1'-0"



6 REF. — LIGHT FIXTURE SEISMIC BRACING AT WALL
3" = 1'-0"



3 REF. — CEILING FAN MOUNTING DETAIL (150 LBS MAX.)
3" = 1'-0"

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APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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DARA DOURAGHI
C-33044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

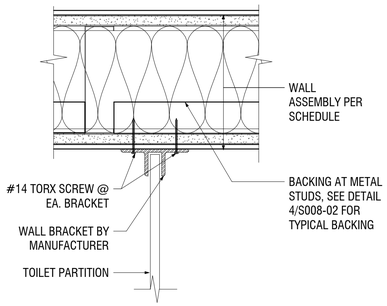
REVISIONS

REV	ISSUE	DATE	TO

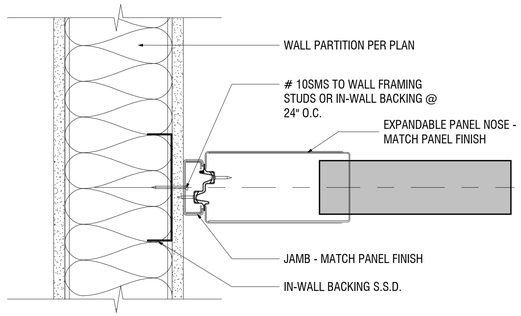
PHASE
DSA SUBMITTAL

SHEET TITLE
INTERIOR DETAILS

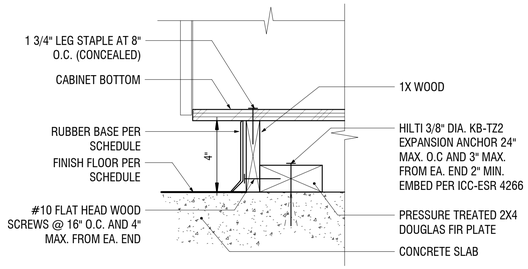
SHEET NUMBER:
A901-02



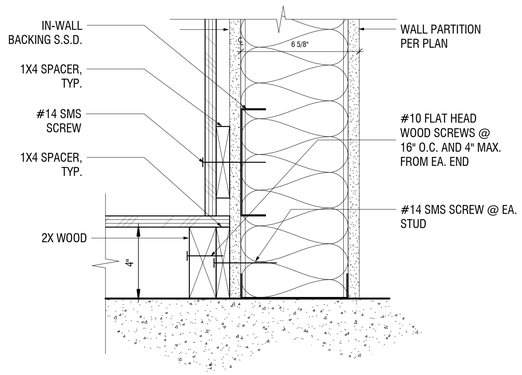
10 TOILET PARTITION CONNECTION
3" = 1'-0"



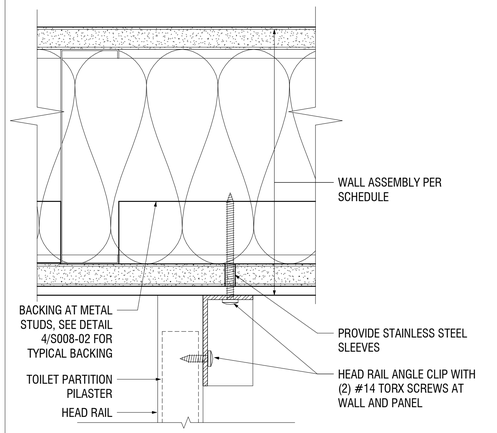
7 (9/A902-02) OPERABLE PARTITION - EXPANDABLE JAMB
3" = 1'-0"



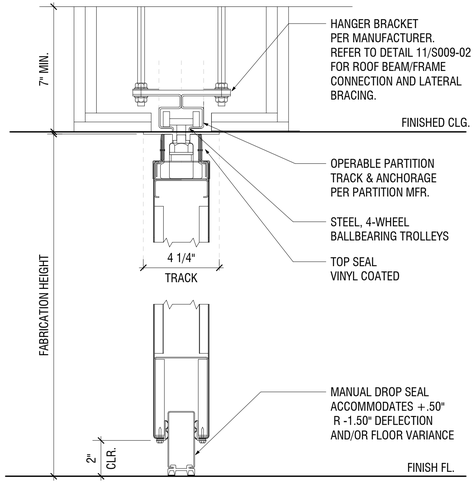
4 (3/A902-02) CABINET BASE DETAIL
3" = 1'-0"



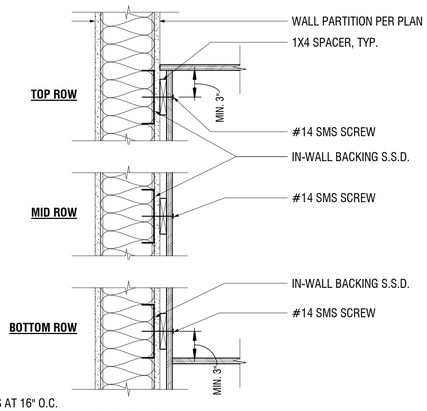
1 (3/A902-02) CABINET BASE DETAIL @ WALL
3" = 1'-0"



HEAD RAIL CONNECTION TO WALL

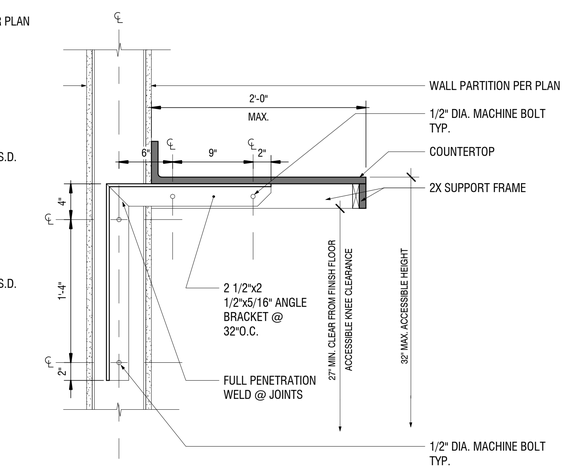


8 (1/A200-02) OPERABLE PARTITION TRACK DETAIL
3" = 1'-0"

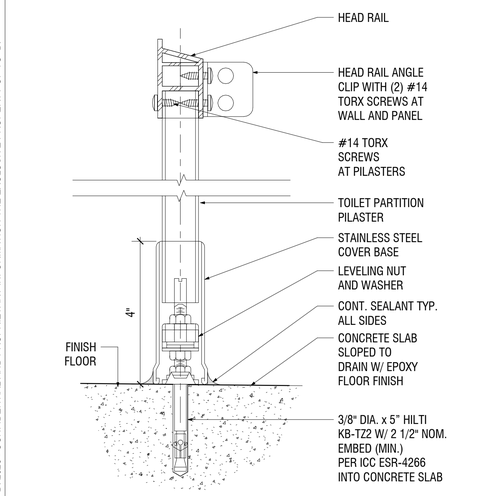


NOTE: FASTENERS AT 16" O.C.
2" MAX. FROM EA. END, 3 MIN. PER CABINET
PENETRATE MIN. 1/2" BEYOND FACE OF METAL FRAMING, TYP.

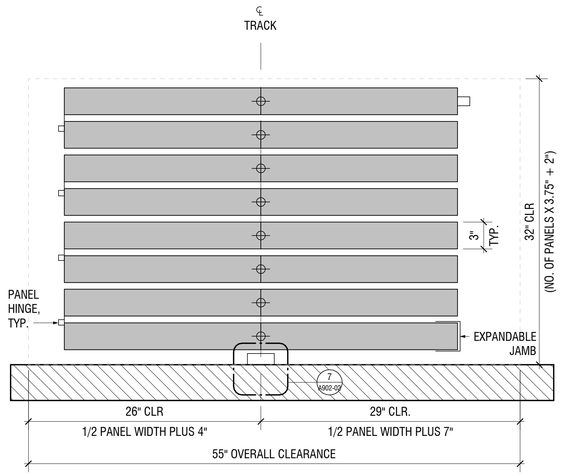
5 (3/A902-02) CABINET ATTACHMENT TO WALL
1 1/2" = 1'-0"



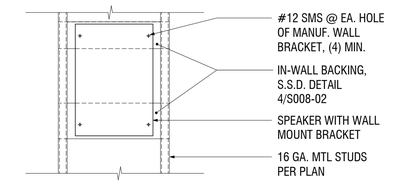
2 COUNTERTOP ANCHORAGE
1 1/2" = 1'-0"



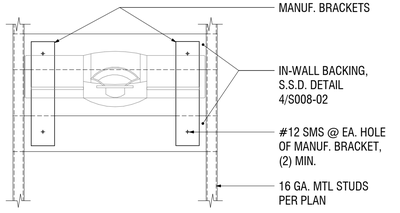
12 TOILET PARTITION PILASTER CONNECTION
6" = 1'-0"



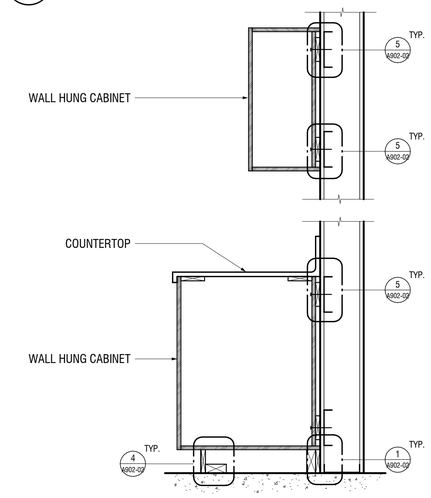
9 (1/A200-02) OPERABLE PARTITION - PLAN DETAIL
1 1/2" = 1'-0"



6A WALL MOUNT SPEAKER (200 LBS MAX.)
1 1/2" = 1'-0"



6B WALL MOUNT PROJECTOR ARM (200 LBS MAX.)
1 1/2" = 1'-0"



3 CASEWORK ANCHORAGE - BASE AND UPPER CABINET
1" = 1'-0"

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DARA DOURAGHI
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REVISIONS

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PHASE

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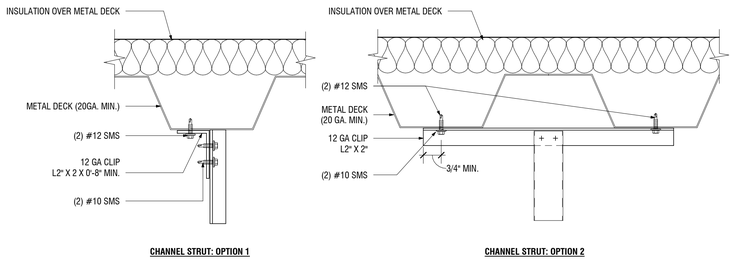
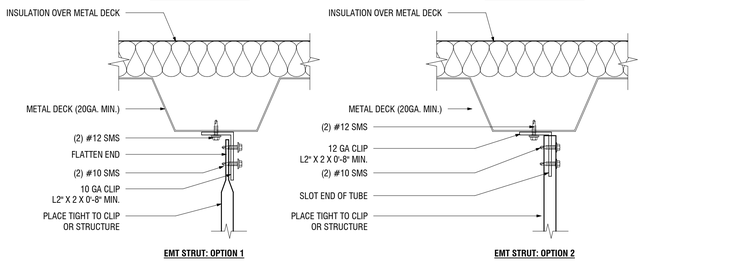
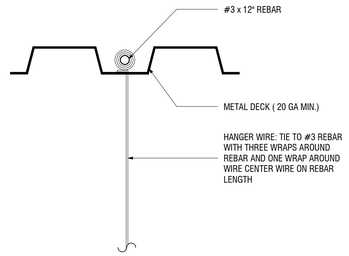
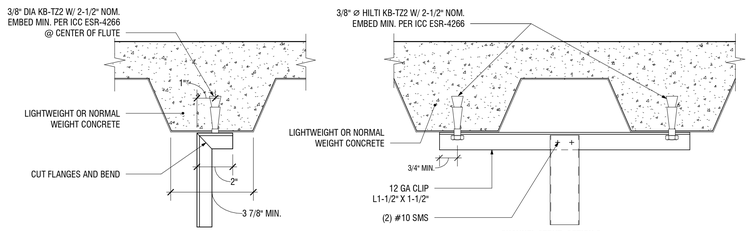


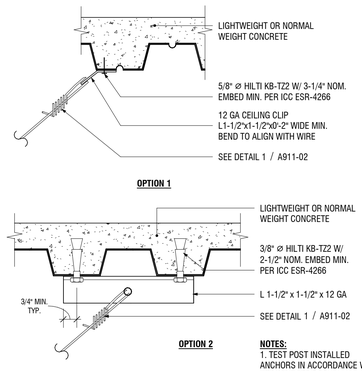


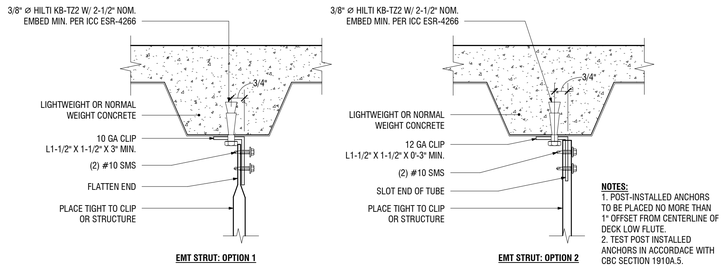
8 REV — STRUT CONNECTION TO BARE METAL DECK
3" = 1'-0"



5 REV — HANGER WIRE CONNECTION TO MTL DECK
3" = 1'-0"

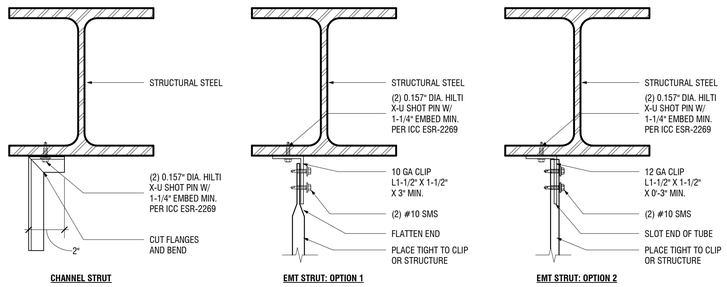




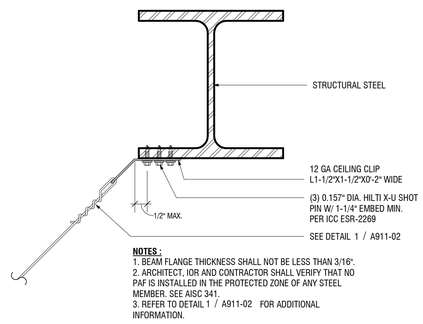


9 REV — STRUT CONNECTION TO CONCRETE OVER METAL DECK
3" = 1'-0"

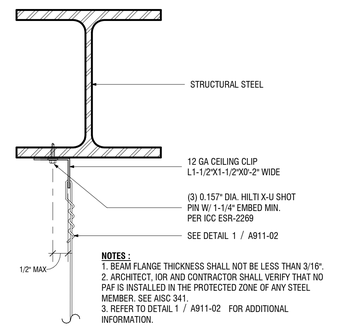
6 REV — BRACE WIRE CONNECTION TO CONCRETE OVER METAL DECK
3" = 1'-0"



10 REV — STRUT CONNECTION TO STRUCTURAL STEEL
3" = 1'-0"



7 REV — BRACE WIRE CONNECTION TO STRUCTURAL STEEL
3" = 1'-0"



4 REV — HANGER WIRE CONNECTION TO STRUCTURAL STEEL
3" = 1'-0"

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3'-11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6'-4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

1 REV — COMPRESSION STRUT TABLE
12" = 1'-0"

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	HANGER WIRE DETAIL	BRACE WIRE DETAIL
BARE METAL DECK	5 / A910-02	8 / S006-02
CONCRETE OVER METAL DECK	11 / A912-02	6 / A910-02
STRUCTURAL STEEL	4 / A910-02	7 / A910-02
METAL STUD WALL	11 / A911-02	4 / A911-02

2 REV — HANGER AND BRACE WIRE CONNECTION TABLE
12" = 1'-0"

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE DETAIL
BARE METAL DECK	8 / A910-02
CONCRETE OVER METAL DECK	9 / A910-02
STRUCTURAL STEEL	10 / A910-02

3 REV — COMPRESSION STRUT CONNECTION TABLE
12" = 1'-0"

CEILING NOTES

1. CEILING SYSTEM GENERAL NOTES

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
1.02 THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
- MANUFACTURER: ARMSTRONG
- PRODUCT NAME: PRELUDE XL
- EVALUATION REPORT NUMBER: ICC ESR-1308
- MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: 7301
- CROSS RUNNER PART, MODEL, OR CATALOG NUMBER: XL8340
1.04 SEISMIC WALL CLIP:
- MANUFACTURER'S MODEL: MB WITH ESR4 EXPANSION SLEEVE
1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINAIRES, AIR TERMINALS, OR DEVICES.
1.06 FOR ACOUSTICAL TILE PANELS OF ANY MATERIAL OTHER THAN MINERAL OR GLASS FIBER, A ¾" CLEARANCE SHALL BE PROVIDED BETWEEN THE PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.
1.07 REFER TO SPEC SECTION 09 51 00 FOR ADDITIONAL INFO.

2. MATERIALS

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAUGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70 KSI.
2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD COMPRESSION STRUTS) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A3.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 43 MIL (18 GAUGE) THICK AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAUGE) THICK AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL CONFORM TO ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF 30 KSI AND MINIMUM ULTIMATE STRENGTH OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 ALL CEILING HANGER AND BRACING WIRES SHALL BE SEPARATED AT LEAST 6-IN FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT.
3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED SUCH THAT THE DIRECTION OF THE ANCHORAGE ALIGNS WITH THE DIRECTION OF THE WIRE. BRACING WIRE CEILING CLIPS SHALL BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN WITH THE DIRECTION OF THE WIRE. SCREWS IN WOOD SHALL BE INSTALLED TO ALIGN WITH THE DIRECTION OF THE WIRE.

4. FASTENERS AND WELDING

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
4.02 EXPANSION ANCHORS SHALL BE: 3/8" ø HILTI KB-TZ2 W/ 2-1/2" NOM. EMBED MIN. PER ICC ESR-4266
4.03 POWER-ACTUATED FASTENERS SHALL BE: 0.157" ø HILTI X-U SHOT PIN W/ 1-1/4" EMBED MIN. PER ICC ESR-2269
4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.
4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON- DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.
4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING

5.01 ALL FIELD TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.
5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT AND IN ACCORDANCE WITH CBC SECTION 1910A.5.

6. LUMINAIRES

6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE PER ASTM E580 SECTION 5.3.1.
6.02 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROTATIONAL SPRING CATCHES ARE NOT PERMITTED. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHEN A LUMINAIRE IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET

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REVIEWED FOR
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DATE: 01/08/2026

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03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

CONSULTANT'S SEAL:

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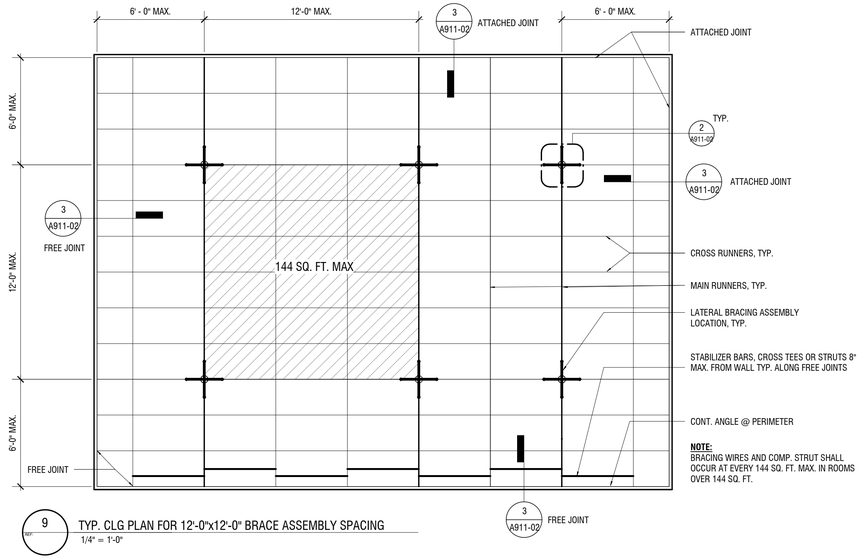
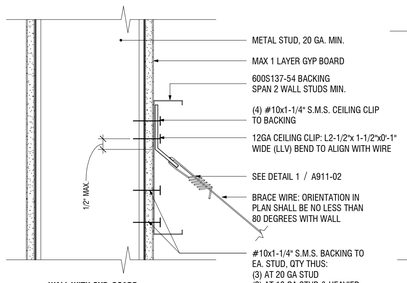
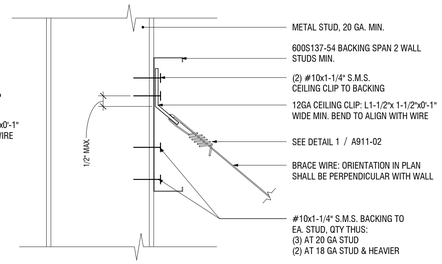


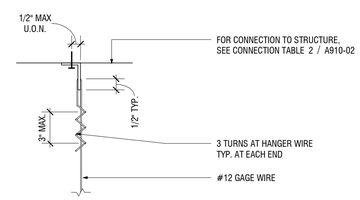
9 REF. TYP. CLG PLAN FOR 12'-0"x12'-0" BRACE ASSEMBLY SPACING
1/4" = 1'-0"



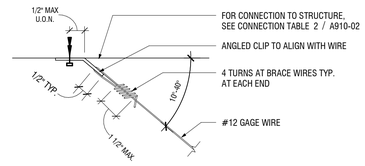
WALL WITH GYP. BOARD



WALL WITHOUT GYP. BOARD



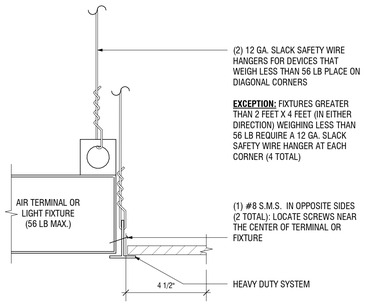
HANGER WIRE



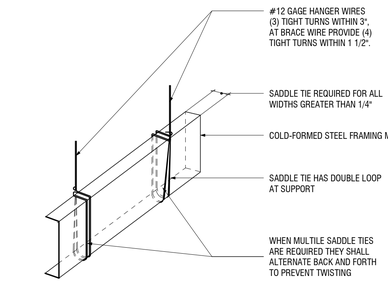
BRACE WIRE

4 REF. BRACE WIRE CONNECTION TO METAL STUD WALL
3" = 1'-0"

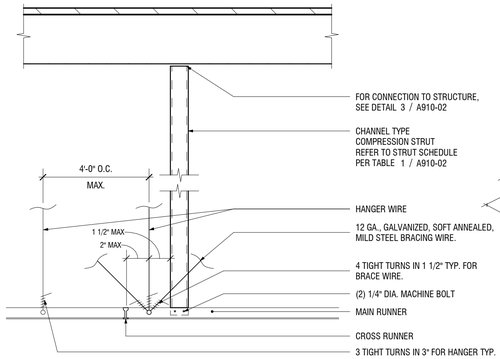
1 REF. HANGER AND BRACE WIRE CONNECTION - TYP. WIRE TURNS
3" = 1'-0"



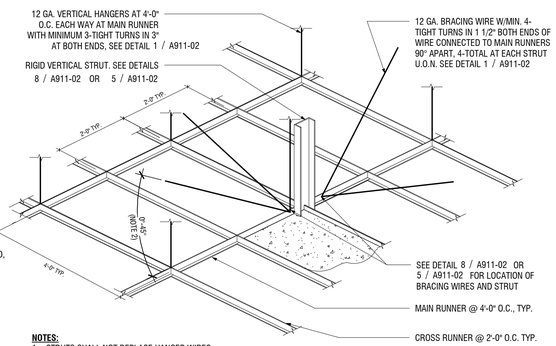
10 REF. TYPICAL LUMINAIRE / AIR TERMINAL SUPPORT
3" = 1'-0"



7 REF. TYPICAL SADDLE TIE DETAIL
1 1/2" = 1'-0"

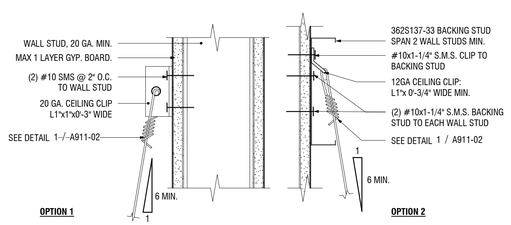


6 REF. TYP. ACOUSTICAL TILE SUSP. CLG. COMPRESSION STRUT
1 1/2" = 1'-0"



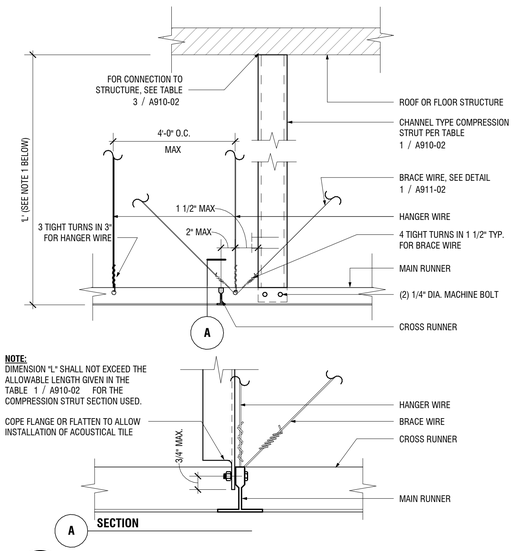
NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

2 9/A911-02 SUSPENSION AND LATERAL BRACING ASSEMBLY
1/2" = 1'-0"

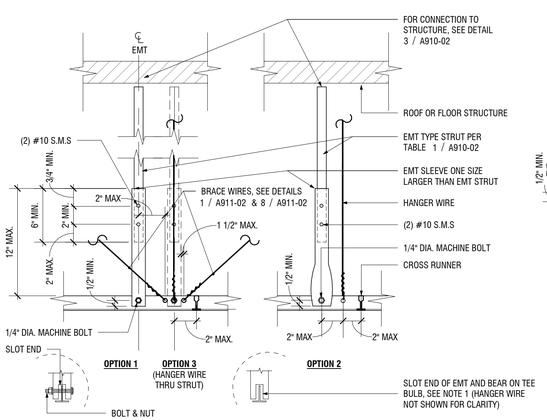


NOTE:
THIS DETAIL APPLIES AT PERIMETER WIRE ATTACHMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO THE STRUCTURE ABOVE.

11 REF. HANGER WIRE CONNECTION TO METAL STUD WALL
3" = 1'-0"

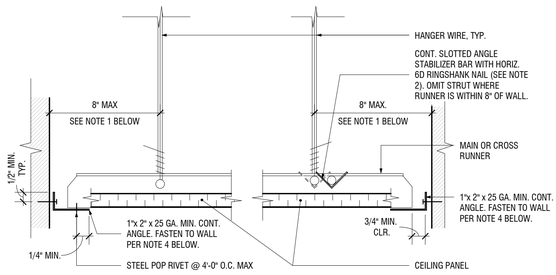


8 REF. COMPRESSION STRUT - CHANNEL TYPE
3" = 1'-0"

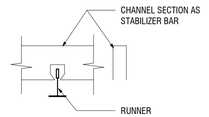


NOTES:
1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3.
2. OPTION 3 IS PERMITTED ONLY WHERE THE ROOF OR FLOOR STRUCTURE IS SAWN TIMBER WITHOUT GYPSUM BOARD.
3. DIMENSION "L" SHALL NOT TO EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE 1 / A910-02 FOR THE COMPRESSION STRUT USED.

5 REF. COMPRESSION STRUT - EMT TYPE
3" = 1'-0"



NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT(8)INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT(8)INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
MTL STUD (20 GA. MIN.) WALL: (1) #10 SMS @ 24" O.C. MAX.



STABILIZER

3 REF. TYP. ACOUSTICAL TILE CEILING PERIMETER
3" = 1'-0"

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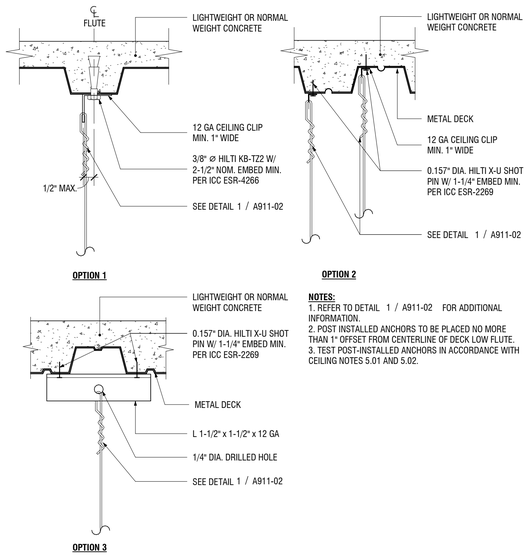
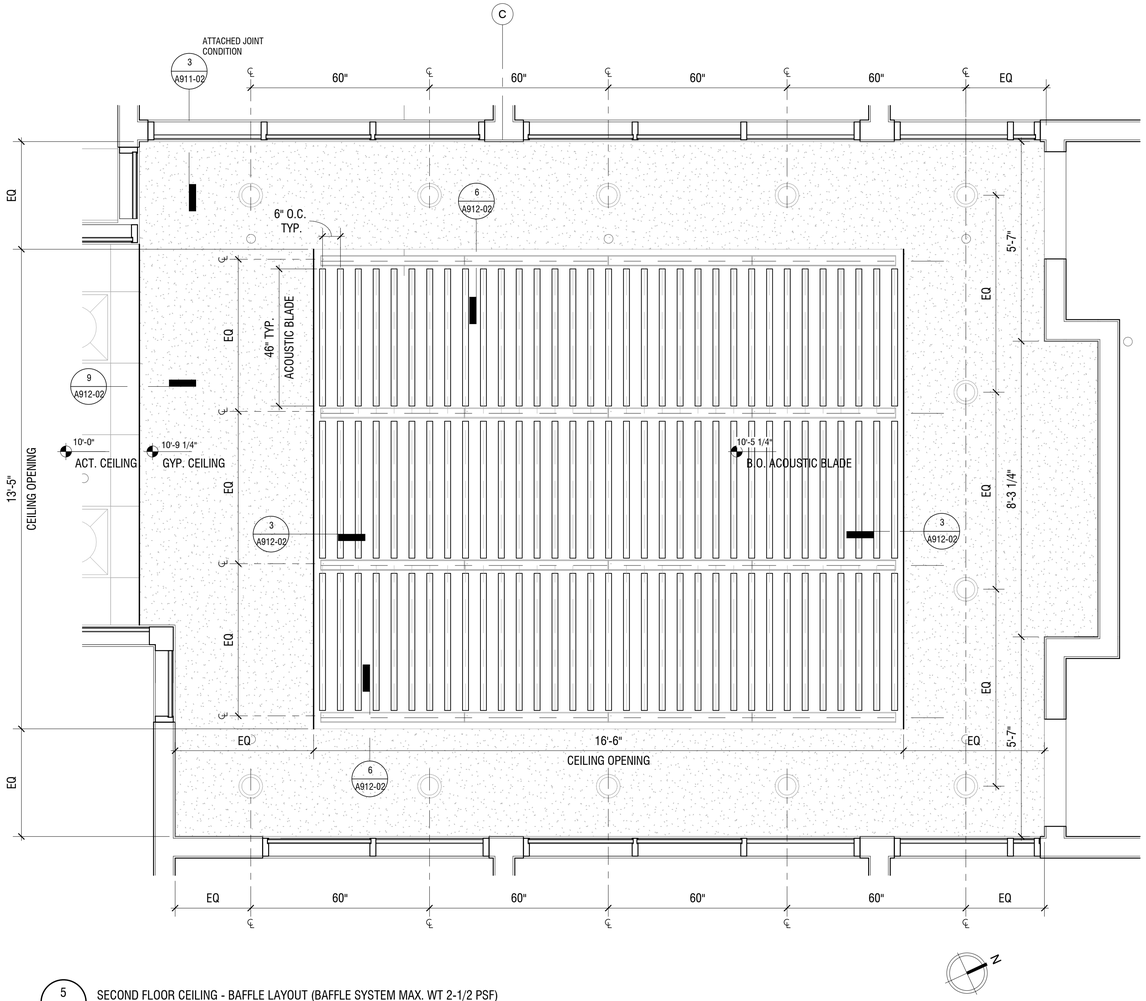
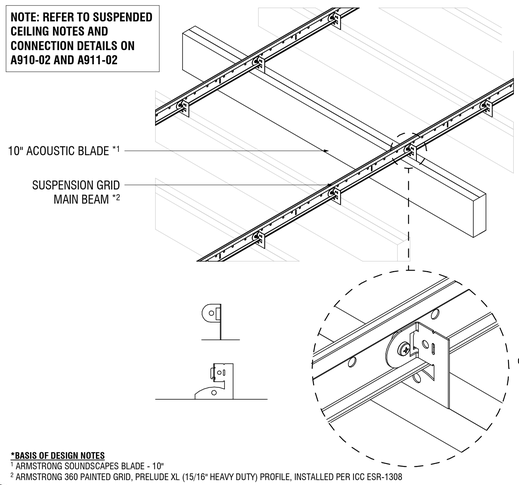


NOTES:
1. REFER TO DETAIL 1 / A911-02 FOR ADDITIONAL INFORMATION.
2. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.
3. TEST POST-INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTES 5.01 AND 5.02.

11 / A911-02 — HANGER WIRE CONNECTION TO CONCRETE OVER METAL DECK
3" = 1'-0"

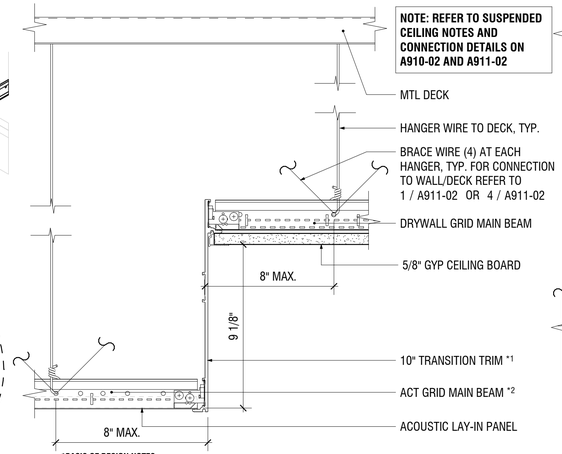


5 / A912-02 — SECOND FLOOR CEILING - BAFFLE LAYOUT (BAFFLE SYSTEM MAX. WT 2-1/2 PSF)
2/A201-02
1/2" = 1'-0"



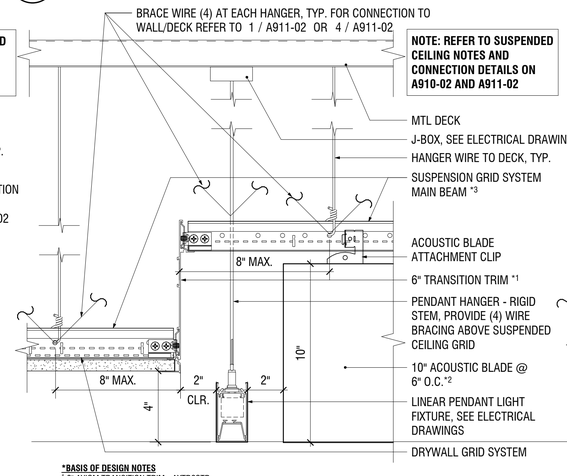
***BASIS OF DESIGN NOTES**
[1] ARMSTRONG SOUNDSCAPES BLADE - 10"
[2] ARMSTRONG 360 PAINTED GRID, PRELUDE XL (15/16" HEAVY DUTY) PROFILE, INSTALLED PER ICC ESR-1308

12 / A911-02 — CEILING BAFFLE TO GRID ATTACHMENT CLIP
1 1/2" = 1'-0"



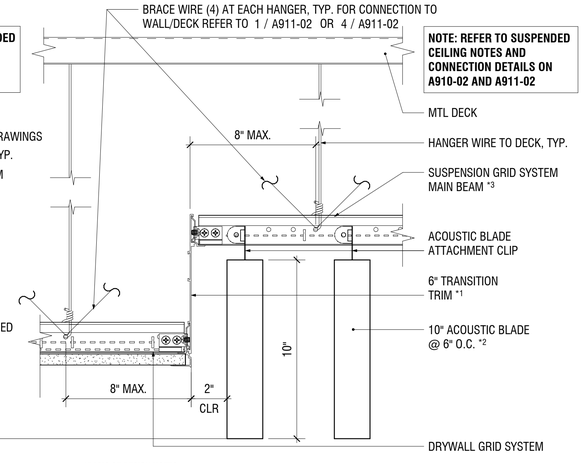
***BASIS OF DESIGN NOTES**
[1] 10" AXIOM TRANSITION TRIM - AXTR10STR
[2] ARMSTRONG PRELUDE SYSTEM, PRELUDE XL (15/16" HEAVY DUTY) PROFILE, INSTALLED PER ICC ESR-1308

9 / A912-02 — CEILING TRANSITION - ACT TO GYP
3" = 1'-0"



***BASIS OF DESIGN NOTES**
[1] 6" AXIOM TRANSITION TRIM - AXTR6STR
[2] ARMSTRONG SOUNDSCAPES BLADE - 10"
[3] ARMSTRONG 360 PAINTED GRID, PRELUDE XL (15/16" HEAVY DUTY) PROFILE, INSTALLED PER ICC ESR-1308

6 / A912-02 — CEILING TRANSITION - GYP AND BAFFLE BLADES WITH LIGHT FIXTURE
3" = 1'-0"



***BASIS OF DESIGN NOTES**
[1] 6" AXIOM TRANSITION TRIM - AXTR6STR
[2] ARMSTRONG SOUNDSCAPES BLADE - 10"
[3] ARMSTRONG 360 PAINTED GRID, PRELUDE XL (15/16" HEAVY DUTY) PROFILE, INSTALLED PER ICC ESR-1308

3 / A912-02 — CEILING TRANSITION - GYP AND BAFFLE BLADES
3" = 1'-0"

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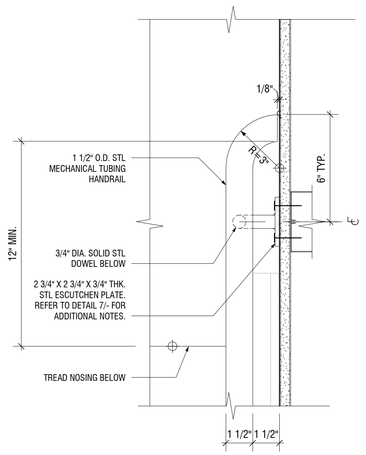
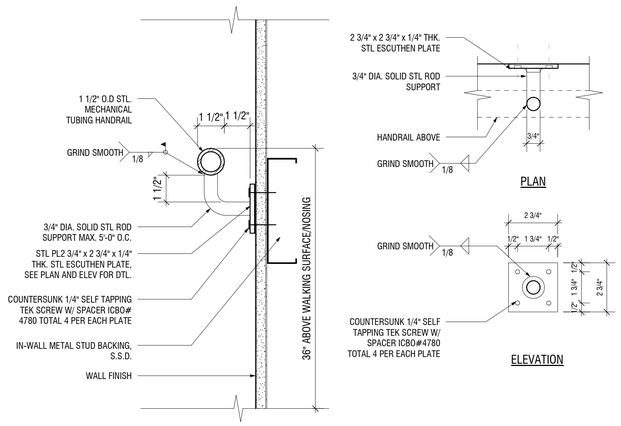
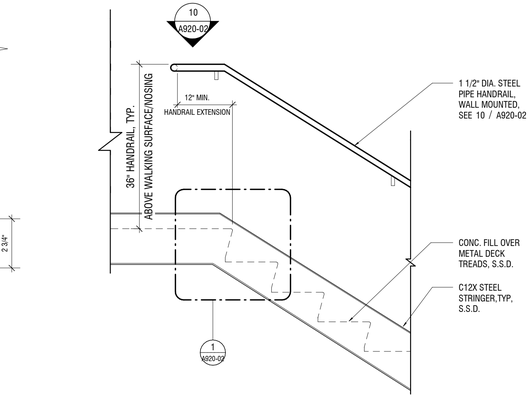


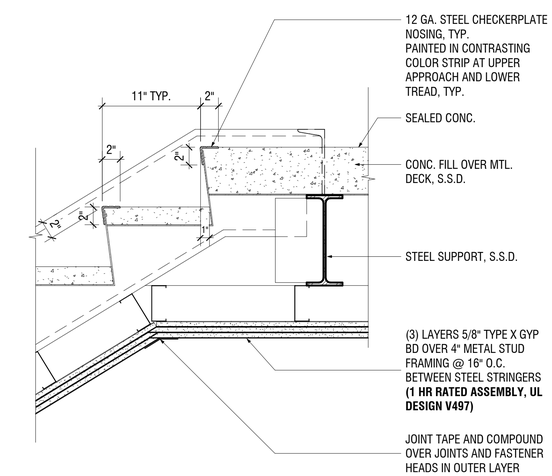
10 HANDRAIL @ WALL, PLAN
REF. 5/A402-02
3" = 1'-0"



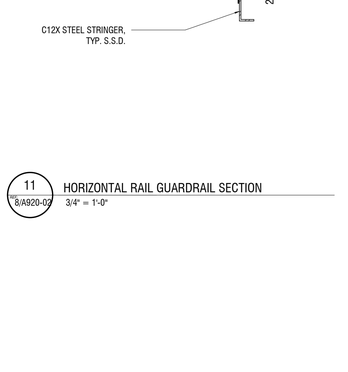
7 HANDRAIL @ WALL, SECTION
REF.
3" = 1'-0"



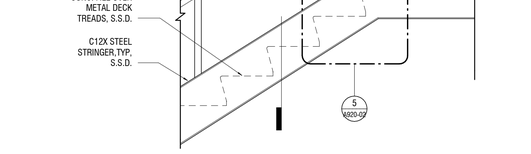
4 HANDRAIL EXTENSION AT TOP OF STAIR
REF. 3/A402-02
3/4" = 1'-0"



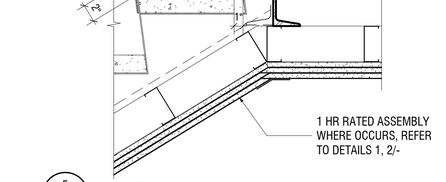
1 STAIR @ SECOND LEVEL
REF. 4/A920-02
1 1/2" = 1'-0"



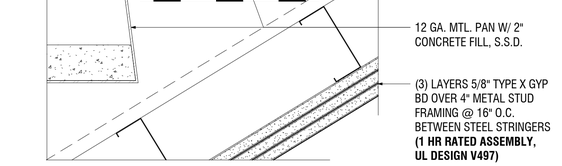
11 HORIZONTAL RAIL GUARDRAIL SECTION
REF. 8/A920-02
3/4" = 1'-0"



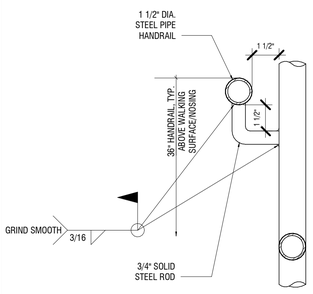
8 GUARDRAIL AND HANDRAIL TRANSITION AT INT. LANDING
REF. 1/A402-02
3/4" = 1'-0"



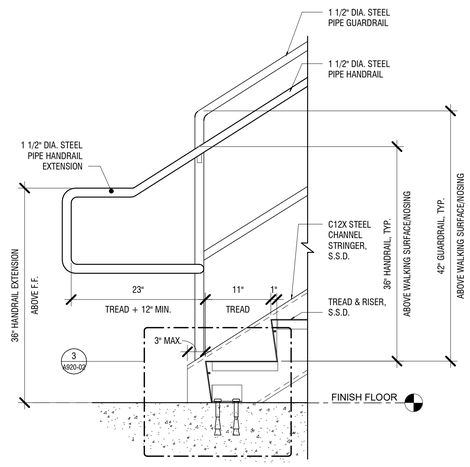
5 STAIR @ INT. LANDING
REF. 1/A402-02
1 1/2" = 1'-0"



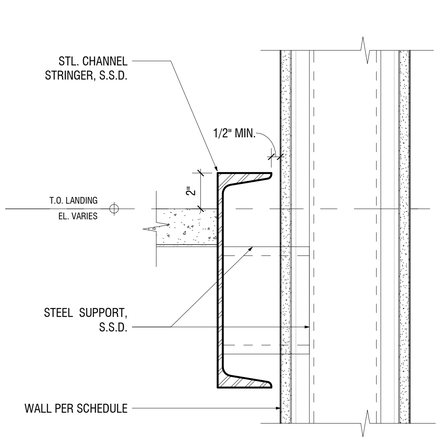
2 TYP. STL. STAIR PAN & NOSING
REF.
3" = 1'-0"



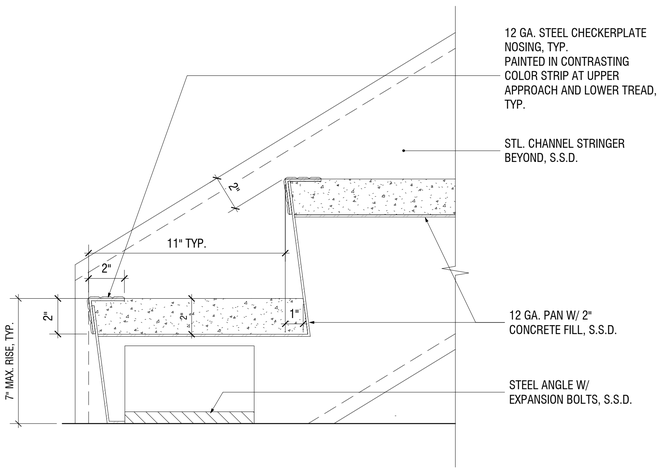
12 HANDRAIL TO GUARDRAIL CONNECTION
REF. 11/A920-02
3" = 1'-0"



9 HANDRAIL EXTENSION AT BOTTOM OF STAIR
REF. 2/A402-02
1" = 1'-0"



6 STAIR STRINGER @ WALL
REF. 1/A402-02
3" = 1'-0"



3 STAIR @ GROUND FLOOR SLAB
REF. 9/A920-02
3" = 1'-0"

12/22/2025 1:07:48 AM © YC+D. 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d
ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

LICENSED ARCHITECT
DARA DOURAGHI
C-23044
03-31-2027
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT:

CONSULTANT'S SEAL:

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

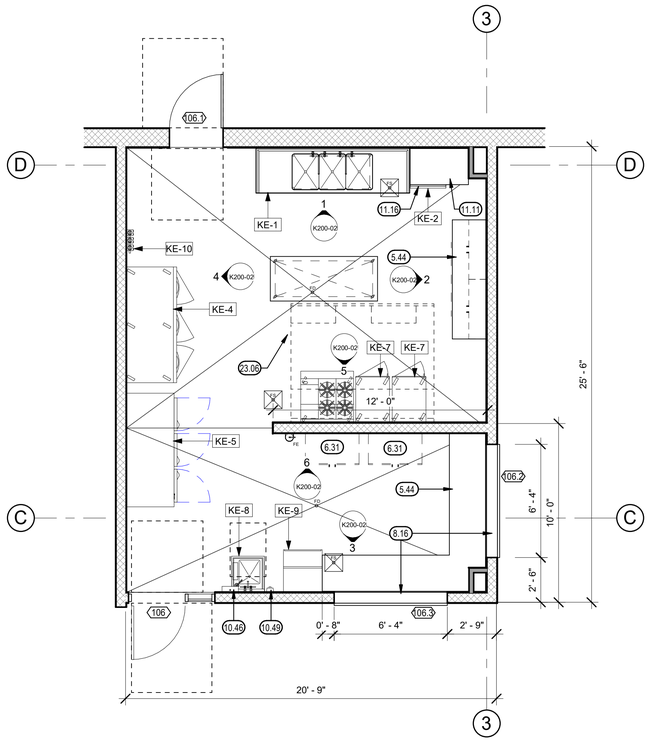
REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

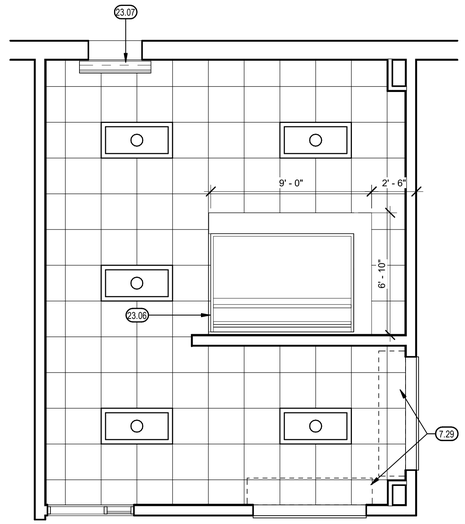
SHEET TITLE
STAIR DETAILS

SHEET NUMBER:
A920-02



NORTH

KITCHEN - FLOOR PLAN 1/4" = 1'-0" 14



NORTH

KITCHEN - REFLECTED CEILING PLAN 1/4" = 1'-0" 7

KEYNOTES 00.00

5.41	STAINLESS STEEL SHELF
5.42	STAINLESS STEEL BACKSPLASH
5.43	STAINLESS STEEL CORNER GUARDS
5.44	CUSTOM STAINLESS STEEL COUNTERS
5.45	STAINLESS STEEL HOOD
6.31	STORAGE CABINETS
7.29	OVERHEAD COILING DOOR
8.03	DOOR KICKPLATE
8.16	FOOD GRADE STAINLESS STEEL 6'-0" WIDE ROLL-UP SERVICE DOOR
9.64	FRP AS SCHEDULED, TYP., SEE SHEET A700
10.46	PAPER TOWEL DISPENSER
10.49	SOAP DISPENSER, WALL MOUNTED
11.11	CUSTOM STAINLESS STEEL COUNTERTOP OVER DISHWASHER
11.16	DISHWASHER UNDER COUNTERTOP WITH 208/3 PHASE POWER
23.06	EXHAUST HOOD WITH ANSUL SYSTEM, SEE MECHANICAL
23.07	FLY FAN, SEE MECHANICAL

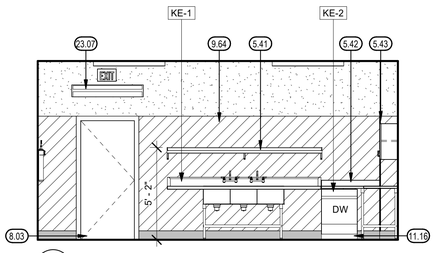
LEGEND

201A — DOOR REFERENCE
SEE DOOR SCHEDULE ON SHEET A700

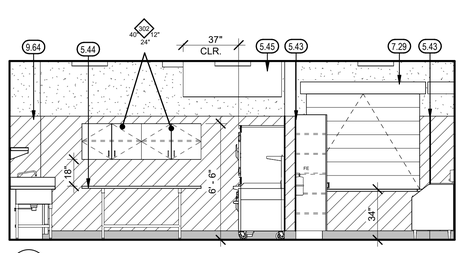
F.E. — BRACKET MOUNTED FIRE EXTINGUISHER, SEE 9 / K221-02
FIRE EXTINGUISHER - UL RATED TYPE 2A-K

FLOOR SINK, SEE PLUMBING

FD — FLOOR DRAIN, SEE PLUMBING



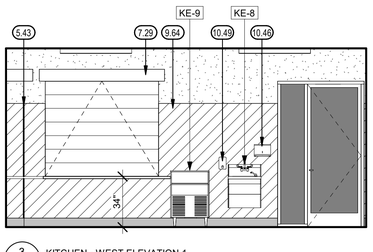
1 K200-02 KITCHEN - EAST ELEVATION 1
1/4" = 1'-0"



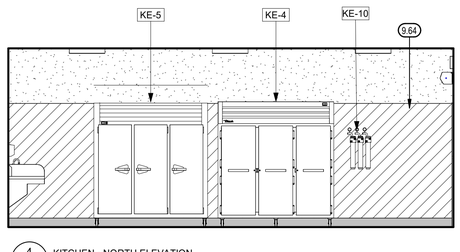
2 K200-02 KITCHEN - SOUTH ELEVATION
1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE

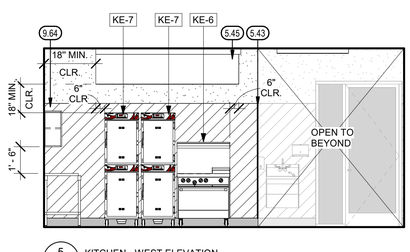
TAG #	DESCRIPTION	QUANTITY	MANUFACTURER	MODEL	MOUNTING DETAIL
KE-1	WORK TABLE W/ PREP SINK	1	BK RESOURCES	BKS-3-24-14-24T	2/K220-02
KE-2	DISHWASHER	1	HOBART	CUL	8/K220-02
KE-3	MOBILE WORK TABLE	4	CUSTOM	S/S	4/K220-02
KE-4	REFRIGERATORS	1	TRUE, INC.	STG3R-3S	8/K220-02
KE-5	FREZEER	1	TRAULSEN	G30010	8/K220-02
KE-6	36" RESTAURANT RANGE, GAS	1	GARLAND	G36-4G12R	8/K220-02
KE-7	OVEN	2	CRES COR	1000-CH-AL-2DE	8/K220-02
KE-8	HAND SINK W/ SOAP AND TOWEL DISPENSERS	2	IMC TEDDY	ADA-WS-2S	2/K220-02
KE-9	SELF-CONTAINED ICE MACHINE	1	KRATOS	69K-908	8/K220-02
KE-10	AQUA PATROL FILTRATION SYSTEM	1	SCOTSMAN	SSM2-P	2/K221-02



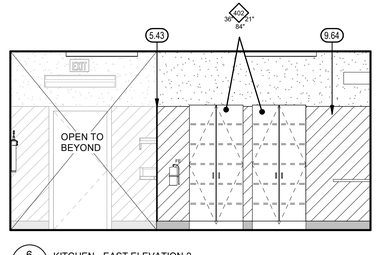
3 K200-02 KITCHEN - WEST ELEVATION 1
1/4" = 1'-0"



4 K200-02 KITCHEN - NORTH ELEVATION
1/4" = 1'-0"



5 K200-02 KITCHEN - WEST ELEVATION
1/4" = 1'-0"



6 K200-02 KITCHEN - EAST ELEVATION 2
1/4" = 1'-0"

GENERAL NOTES

A. FIRE EXTINGUISHER TO BE: CLASS K MIN. PER CFC 906.4, ONE FOR EVERY 3,000 S.F. OR PORTION THEREOF & TRAVEL DISTANCE NOT TO EXCEED 75'-0".

B. ALL DIMENSIONS TO FACE OF STUD, U.N.O. DIMENSIONS WITH "MIN.","CLR.", ARE MEASURED FROM FACE OF WALL FINISH.

C. TYP. INTERIOR WALL FINISH FOR STUD WALLS: 5/8" TYPE 'X' GYP. BD., WATER RESISTANT TYPE IN RESTROOMS WHERE LOCATED WITHIN 2'-0" OF THE FRONT AND/OR SIDES OF PLUMBING FIXT. GYP. BD. APPLICATION SHALL COMPLY w/ CBC SECTION 2508. GYP. BD. SHALL BE FASTENED TO SUPPORTS w/ SCREWS.

D. FOR TYPICAL ACCESSIBLE DOOR MANEUVERING CLEARANCES, SEE DETAIL 8/K221-02

E. FOR ACCESSIBLE SINK KNEE/TOE SPACE, SEE DETAIL 11/A900-02

F. FOR ACCESSIBLE WORK SURFACE KNEE/TOE SPACE, SEE DETAIL 11/A900-02

G. 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 & PATCHING.

H. ALL WORK WITHIN OR ON EXISTING WALLS SHALL BE PATCHED TO MATCH THE ADJACENT EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ALL DEMOLITION REQUIRED TO PROPERLY INSTALL PROPOSED IMPROVEMENTS (STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, ETC.).

a. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CUTTING & PATCHING REQUIREMENTS.

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

I. ALL NEW AND EXISTING FLOOR SUBSTRATES ARE TO BE CLEANED, PATCHED, REPAIRED, LEVELED, AND PREPARED AS REQUIRED BY FLOORING FINISH MANUFACTURER RECOMMENDATIONS FOR FLOORING FINISH SYSTEM SCHEDULED.

J. ALL MANUFACTURER REQUIRED AND/OR RECOMMENDED TESTING, CORRECTIVE MEASURES, AND PREPARATIONS WITH REGARD TO THE EXISTING CONCRETE SLAB, INCLUDING PATCHED AREAS, SHALL BE INCLUDED AND PERFORMED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER NIKKEL C-34243 REGISTERED PROFESSIONAL ARCHITECT STATE OF CALIFORNIA

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

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE
ENLARGED KITCHEN PLAN AND INTERIOR ELEVATIONS

PROJECT NO.
24-13084.00

DRAWING
K200-02

\\tetr-file1\Users\cesar.silva_TETRIDocuments\13084-A-MCSD-260 K ST.IT WAREHOUSE_cesar.sil.rvt

PLOT DATE: 12/19/2025 11:19:52 AM

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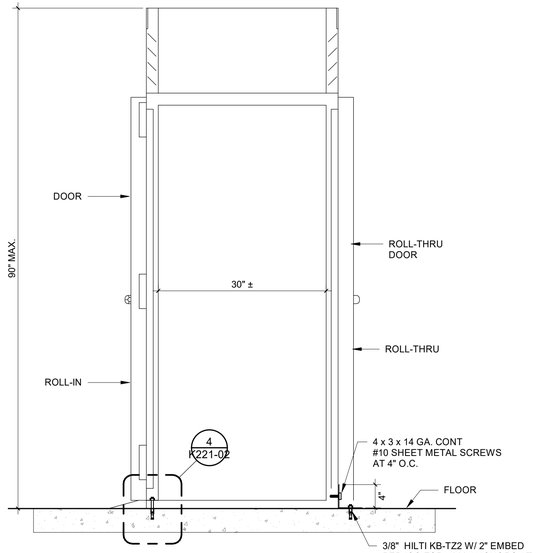
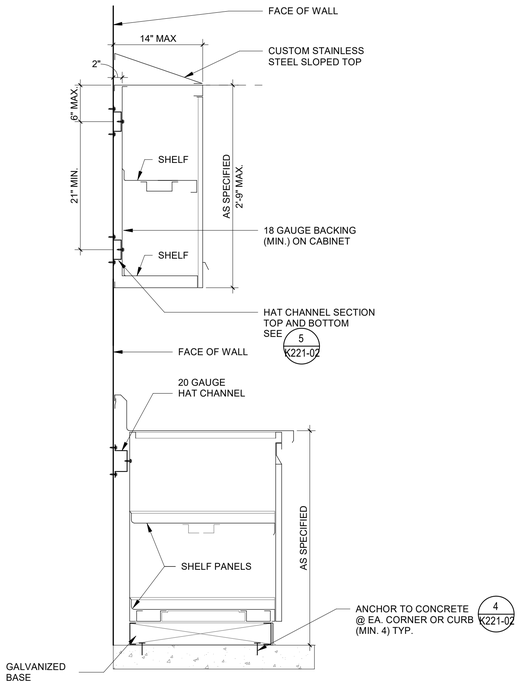


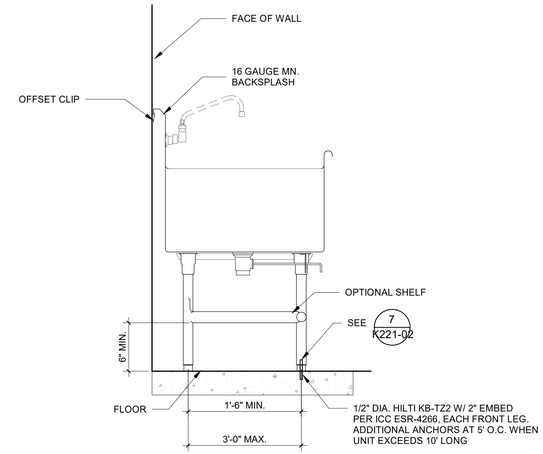
NOTE:
IF ROLL-IN UNIT IS ADJACENT TO WALL, OMIT FLOOR CONNECTION AT WALL. (2 / K221-02)

ROLL-IN STORAGE UNIT 1" = 1'-0" 5



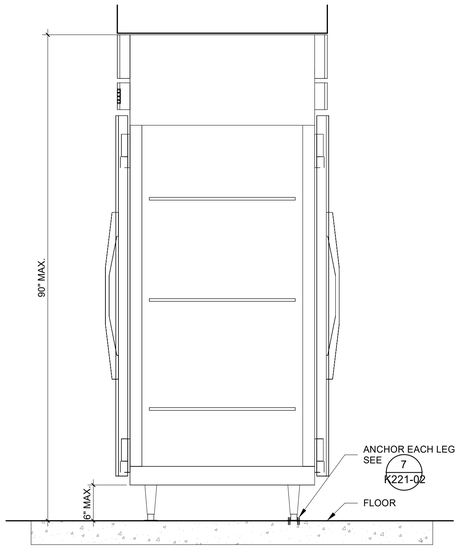
NOTE:
THE DETAILS SHOWN OF JOINTS AND SEAMS ARE GRAPHIC REPRESENTATIONS ONLY AND ARE NOT INTENDED TO INDICATE SPACING BETWEEN THE METAL ELEMENTS.

CUSTOM STAINLESS STEEL CABINET 1" = 1'-0" 6

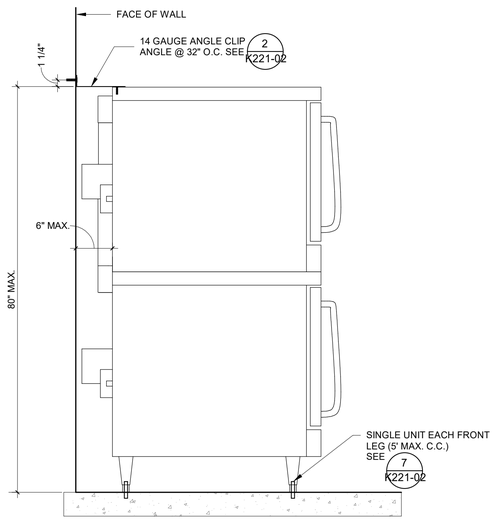


NOTE:
THE DETAILS SHOWN OF JOINTS AND SEAMS ARE GRAPHIC REPRESENTATIONS ONLY AND ARE NOT INTENDED TO INDICATE SPACING BETWEEN THE METAL ELEMENTS

WALL ATTACHED SINK WORK TABLE WALL CAP 1" = 1'-0" 2

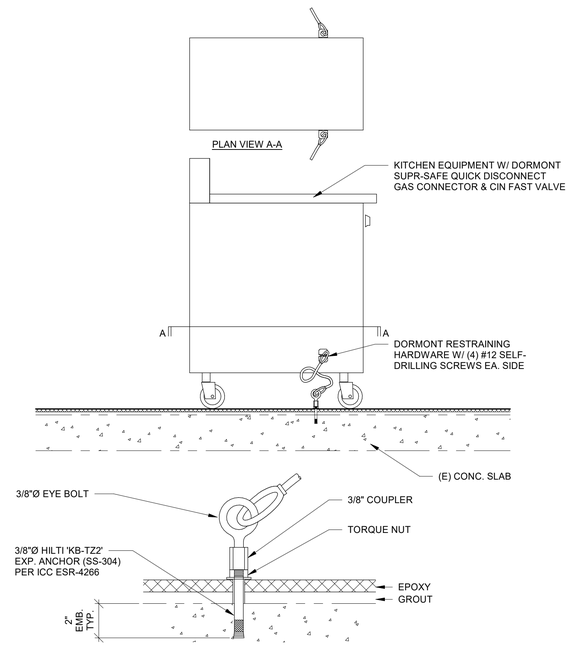


PASS-THROUGH FLOOR MOUNTED APPLIANCES 1" = 1'-0" 6



NOTE:
MAXIMUM UNIT WIDTH 60"

FLOOR MOUNTED APPLIANCE AGAINST WALL 1" = 1'-0" 8



TYPICAL ANCHORAGE FOR MOBILE EQUIPMENT 1" = 1'-0" 4

PLOT DATE: 12/19/2025 11:19:53 AM

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DATE: 01/08/2026

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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER NIKKEL C-34243 REN: 08/31/2027 STATE OF CALIFORNIA

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

TETER

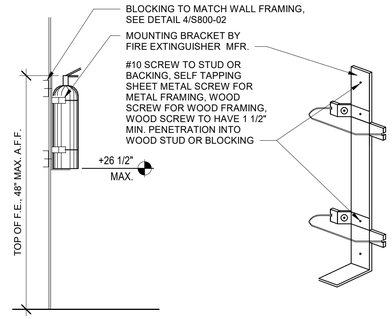
26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE
DETAILS

PROJECT NO.
24-13084.00

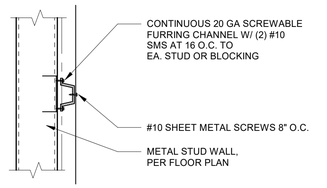
DRAWING
K220-02

\\tet-file1\Users\cesar.silva_TETR\Documents\13084-A-MCSD-260 K ST. IT WAREHOUSE_cesar.sil.rvt



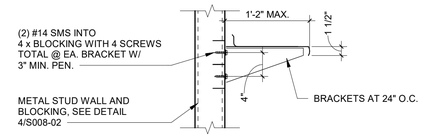
NOTE:
SEE SPECS FOR ADDITIONAL INFO.ON FIRE EXTINGUISHER.

FIRE EXTINGUISHER BRACKET 12" = 1'-0" 9



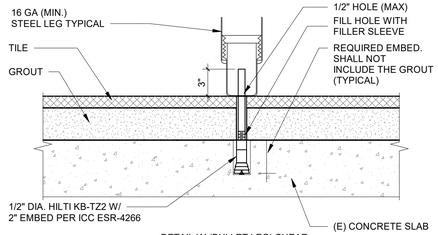
CONNECTIONS TO METAL

FURRING CHANNEL CONNECTIONS 1" = 1'-0" 5

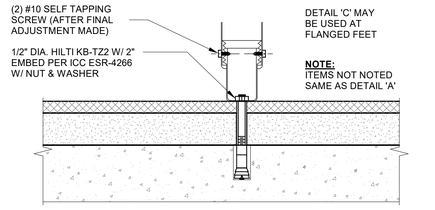


CONNECTIONS TO METAL

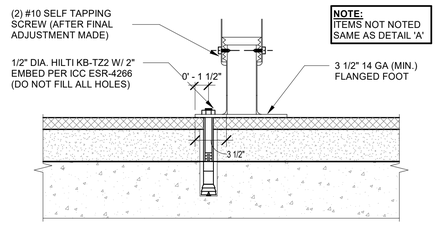
WALL MOUNTED SHELVES 1" = 1'-0" 1



DETAIL 'A' (BULLET LEG) SHEAR

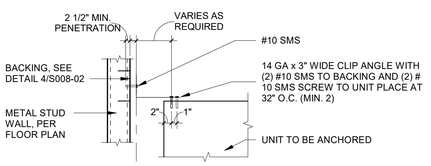


DETAIL 'B' (BULLET LEG) SHEAR AND UPLIFT



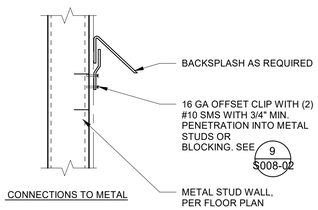
DETAIL 'C' (FLANGED FLOOR) SHEAR AND UPLIFT

KITCHEN EQUIPMENT ANCHORAGE 1 1/2" = 1'-0" 7

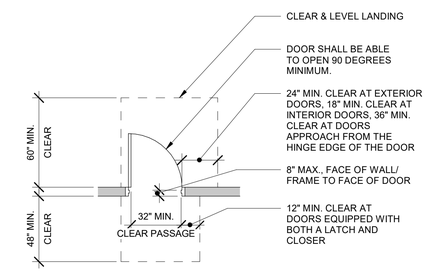


CONNECTIONS TO METAL

TOP ANGLE CONNECTION 1" = 1'-0" 2

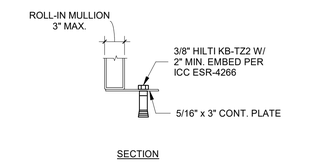


OFFSET CLIPS 1" = 1'-0" 3



SRH_12_2019

MANEUVERING CLEARANCE AT DOORS 1/4" = 1'-0" 8



SECTION

ATTACHMENT AT BASE 1" = 1'-0" 4

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
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MARK	DATE	DESCRIPTION
	12/22/25	INC. 02 DSA SUBMITTAL

LICENSED ARCHITECT CHRISTOPHER NIKKEL C-34243 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

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

TETER

26TH STREET MARS/ELO-P FACILITY
MERCED CITY SCHOOL DISTRICT
2600 K STREET INCREMENT 02
MERCED, CA 95348

DRAWING TITLE
DETAILS

PROJECT NO.
24-13084.00

DRAWING
K221-02

PLOT DATE: 12/19/2025 11:19:54 AM

ALUMINUM STOREFRONT
CW DRAWINGS

MARS/ELOP FACILITY

MCSD - 26TH ST.

MERCED CITY SCHOOL DISTRICT

PROJECT INFORMATION

PROJECT NAME:

MARS/ELOP FACILITY
MCSD - 26TH ST.

MERCED CITY SCHOOL DISTRICT

ARCHITECT:

yc+d ARCHITECTURE

712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

GENERAL CONTRACTOR, & DESIGN TEAM NOTES:

1) PRIOR TO FABRICATION, ALL DIMENSIONS, CONFIGURATIONS, AND QUANTITIES ARE TO BE VERIFIED AND/OR CORRECTED ON EVERY DRAWING SUBMITTAL.
2) SURROUNDING CONDITIONS MUST BE DESIGNED, BY THE ARCHITECT AND E.O.R., TO ACCOMMODATE THE LOADS IMPOSED BY THE GLAZING SYSTEMS.
3) ARCADIA IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS INCURRED BY OTHER TRADES THROUGH THE USE OF THESE SHOP DRAWINGS.
4) TOLERANCE OF ROUGH OPENINGS SHALL BE A NON-CUMALTIVE MAXIMUM OF ± 1/4".
5) ALL DETAILS ARE DRAWN WITH THE INTENT OF ACHIEVING THE ARCHITECTS ORIGINAL DESIGN IN ACCORDANCE WITH THE MANUFACTURERS DESIGN AND FABRICATION CRITERIA.
6) TEMPERED GLASS WILL BE USED WHERE REQUIRED BY CODE.

DESIGN CRITERIA

BUILDING CODE: 2022
CALIFORNIA BUILDING CODE

SEISMIC
SEISMIC IMPORTANCE FACTOR, I = 1.0
RISK CATEGORY = III
SEISMIC DESIGN CATEGORY = D
SITE CLASS = D
SS = 0.554 S1 = 0.232
SDS = 0.501 SD1 = 0.330

WIND
BASIC WIND SPEED = 100 MPH (ULT)
EXPOSURE CATEGORY = C

FRAMING SYSTEMS

AFG-651T: 2" x 6" STOREFRONT SYSTEM

AFG-451T: 2" x 4 1/2" STOREFRONT SYSTEM

T-200 WINDOW

SLIDING WINDOW ULT-5920 SLIDING WINDOW

DOORS WS512HD Series Heavy Duty Wide Stile

FINISH:

T.B.D.

APPROVAL BLOCK

DRAWING INDEX

SHEET	DWG	DESCRIPTION	REV. 1	REV. 2
1	CW0.01-02	COVER SHEET		
2	CW0.02-02	GENERAL NOTES		
3	CW1.01-02	FLOOR PLAN		
4	CW1.02-02	FLOOR PLAN		
5	CW2.00A-02	BUILDING ELEVATIONS		
6	CW2.00B-02	BUILDING ELEVATIONS		
7	CW2.01-02	SF ELEVATIONS		
8	CW2.02-02	SF ELEVATIONS		
9	CW2.03-02	SF ELEVATIONS		
10	CW2.04-02	SF ELEVATIONS		
11	CW2.05-02	SF ELEVATIONS		
12	CW2.06-02	SF ELEVATIONS		
13	CW2.07-02	SF ELEVATIONS		
14	CW2.08-02	SF ELEVATIONS		
15	CW2.09-02	SF ELEVATIONS		
16	CW2.10-02	SF ELEVATIONS		
17	CW2.11-02	SF ELEVATIONS		
18	CW5.01-02	SECTION DETAILS		
19	CW5.02-02	SECTION DETAILS		
20	CW5.03-02	SECTION DETAILS		
21	CW5.04-02	SECTION DETAILS		
22	CW5.05-02	SECTION DETAILS		
23	CW5.06-02	SECTION DETAILS		
24	CW6.01-02	PLAN DETAILS		
25	CW6.02-02	PLAN DETAILS		
26	CW6.03-02	PLAN DETAILS		
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28	CW6.05-02	PLAN DETAILS		
29	CW6.06-02	PLAN DETAILS		
30	CW7.01-02	SECTION PROPERTIES		
31	CW7.02-02	SECTION PROPERTIES		
32	CW7.03-02	SECTION PROPERTIES		

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APP: 02-123377 INC: 02
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DATE: 01/08/2026

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MCSD - 26TH ST.

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PHASE

SHEET TITLE

COVER PAGE

SHEET NUMBER:

CW0.01-02

REPETITIVE NOTES:

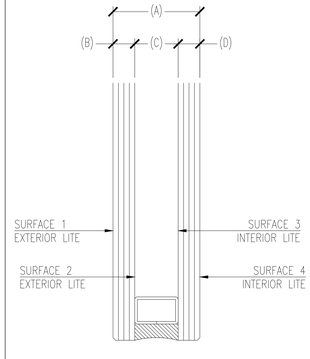
NO	DESCRIPTION
01	SEALANT AND BACKER ROD
02	SHIM AS REQUIRED
03	1" x 5/8" x 4" SETTING BLOCK, 2 PER LITE
03a	1" x 5/16" x 4" SETTING BLOCK, 2 PER LITE
03b	1" x 3/4" x 4" SETTING BLOCK, 2 PER LITE
04	HEAL BEAD OF SEALANT - ALL AROUND THE BASE
05	.040" THICK ALUM END DAM ATTACHED WITH (2) #6 F.H. S.M.S.
06	JOINERY SEALANT, BOTH ENDS OF HORIZONTAL
07	5/16" LONG WEEP SLOT WITH WEEP BAFFLE, 2 PER LITE.
08	SEALANT OVER ANCHOR
09	ANTI-WALK BLOCKS, 2 PER LITE
10	WATER DIVERTER SEALED TO HORIZONTAL, 2 PER HORIZONTAL
11	1/16" THICK ISOLATOR PAD TO SEPARATE DISSIMILAR MATERIALS

FASTENERS:

TAG	DESCRIPTION
FT.SL.X	FT = Fastener Type, SL = Size and Length, X = P for Zinc Plated or S for Stainless Steel
PH.12xa.P	#12 x ½" PAN HEAD SHEET METAL SCREW
PH.10xa.P	#10 x 1 ½" PAN HEAD SHEET METAL SCREW
PH.10xb.P	#10-16 x 5/8" PAN HEAD SELF DRILLING SCREW
PH.8xa.P	#8-32 x ¼" PAN HEAD MACHINE SCREW
FH.12xa.S	#12 x ½" FLAT HEAD SHEET METAL SCREW (UNDERCUT)
FH.12xb.S	#12 x 5/8" FLAT HEAD SHEET METAL SCREW
FH.10xa.S	#10 x 1 ½" FLAT HEAD SHEET METAL SCREW
FH.6xa.S	#6 x ½" FLAT HEAD SHEET METAL SCREW

GASKET TABLE:

GASKET No.	GASKET	Shop Drawing Reference DESCRIPTION
VTL-TG	TR-16435ES	70 ±5 Duro. Dense EPDM, or 70 ±5 Duro. Silicone Face Clearance = .188 Storefront - 3/16" Top-Load
E-260	TR-5676E	70 ±5 Duro. Dense EPDM Wedge Gasket Face Clearance = *.188
E-150	TR-11395E	70 ±5 Duro. Dense EPDM Pre-Set Gasket Face Clearance = *.094 Dart C/L = .162
OPG-1985		70 ±5 Duro. Dense EPDM Pre-Set Gasket - T-500 P.B. System Face Clearance = .188 - .218 Dart C/L = .250
OPG-1986	ISOLATOR GASKET	85 ±5 Duro. Dense EPDM Pressure Bar Isolator Gasket - T-500 P.B. System Face Clearance = .188 - .218



T

NOTE:
TEMPERED GLASS WILL BE USED WHERE REQUIRED BY CODE. GLASS TO BE (H.S) HEAT STRENGTHENED AS RECOMMENDED BY GLASS MANUFACTURE TO AVOID THERMAL STRESS BREAKAGE.

GLASS SCHEDULE / MATERIAL LEGEND

GLASS	DESCRIPTION
GL-1	GLAZING TO BE 1/4" GLASS UNIT
GL-1A	GLAZING TO BE 1" INSULATED UNIT WITH SOLARBAN 70 (2) SOLARGRAY + CLEAR GLASS -1/4" OUTSIDE PANE WITH 1/2" AIR SPACE AND 1/4" INSIDE PANE
GL-2	GLAZING TO BE 1" INSULATED UNIT

LEGEND

REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION
(UNX) X.X	ELEVATION # SHEET #				WIND LOAD
D# X.X	DETAIL # SHEET #				DEAD LOAD
S# X.X	SECTION # SHEET #				= ANCHOR LOCATION INDICATOR

ABBREVIATIONS

REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION
B.O.W.	BOTTOM OF WINDOW	R. O.	ROUGH OPENING DIMENSION
℄	CENTER LINE	T .O .C.	TOP OF CONCRETE
D .L .O.	DAYLGHT OPENING DIMENSION	T .O .H.	TOP OF HORIZONTAL
D. O.	DOOR OPENING DIMENSION	T.O.W.	TOP OF WINDOW
D. P.	DIMENSION POINT REFERENCE	TYP.	TYPICAL
F. D.	FRAME DIMENSION	V.I.F.	VERIFY IN FIELD
OPP.	OPPOSITE HAND	W.O.	WINDOW OPENING
N.B.A.	NOT BY ARCADIA		

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GENERAL NOTES

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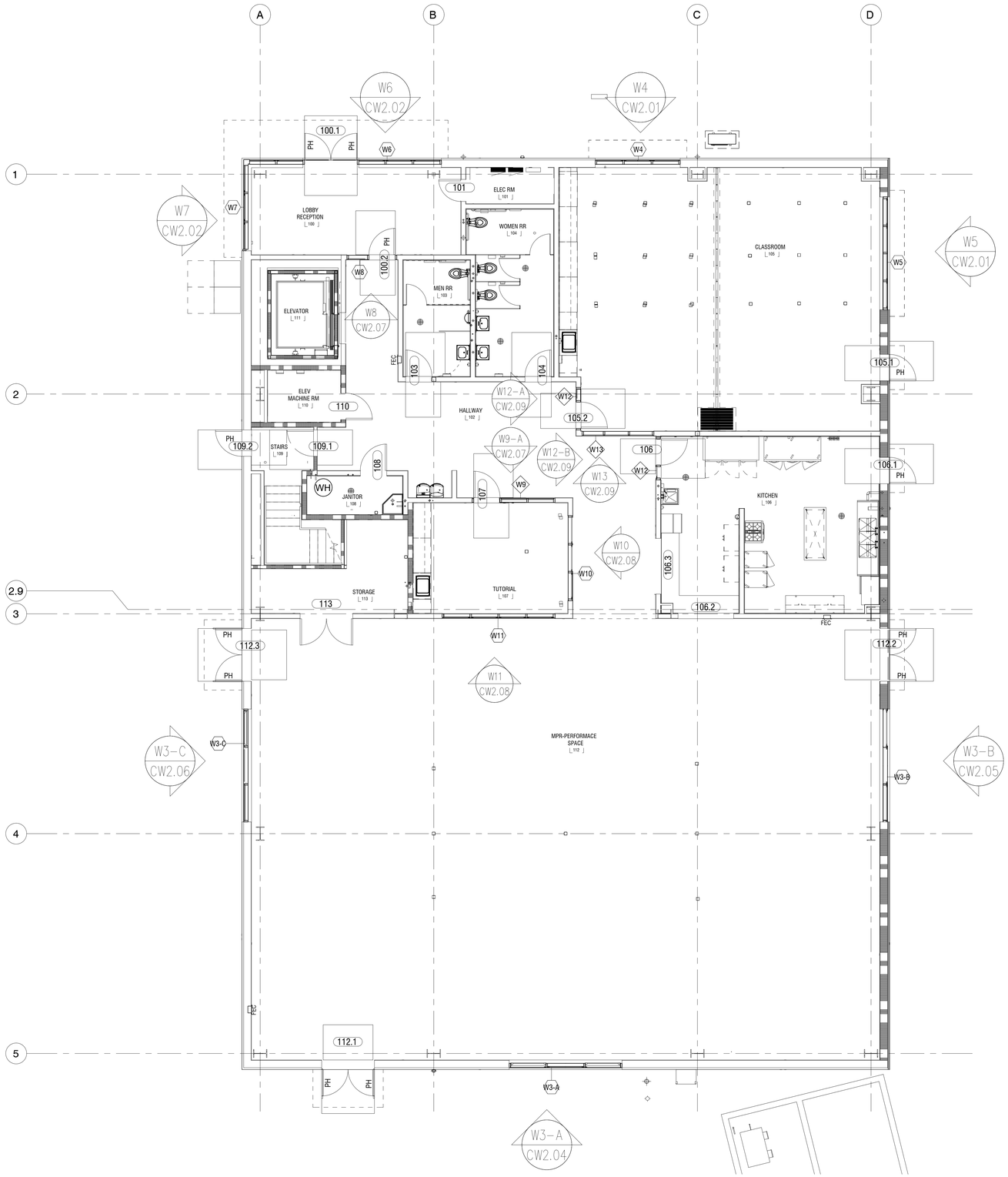

1 FLOOR PLAN–FIRST LEVEL

Arch Ref:1/A200

N
W E
S
PROJECT
NORTH

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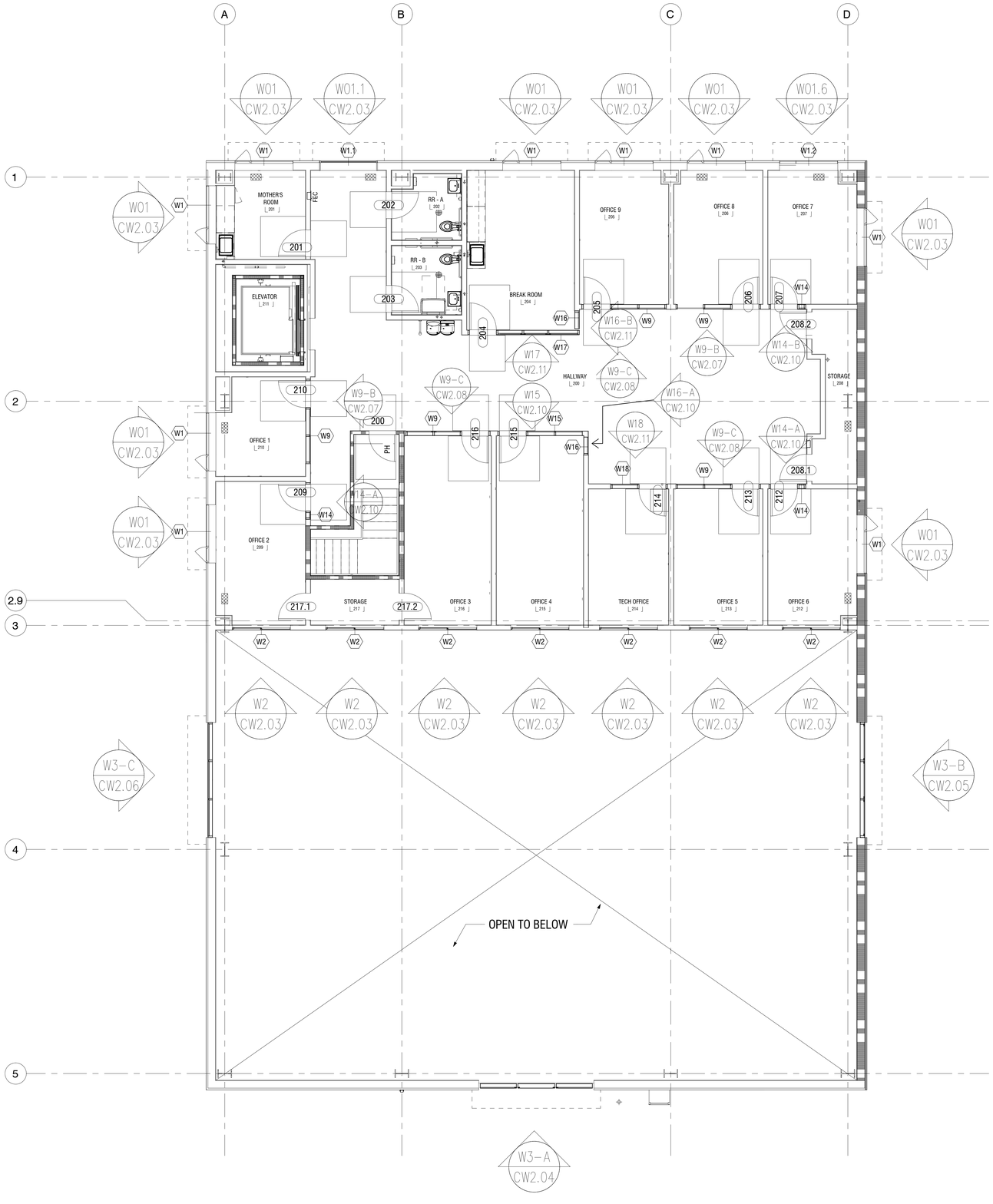
FLOOR
PLAN-FIRST
LEVEL

SHEET NUMBER:

CW1.01-02



2 FLOOR PLAN–SECOND LEVEL

Arch Ref:2/A200

N
W E
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PROJECT NORTH

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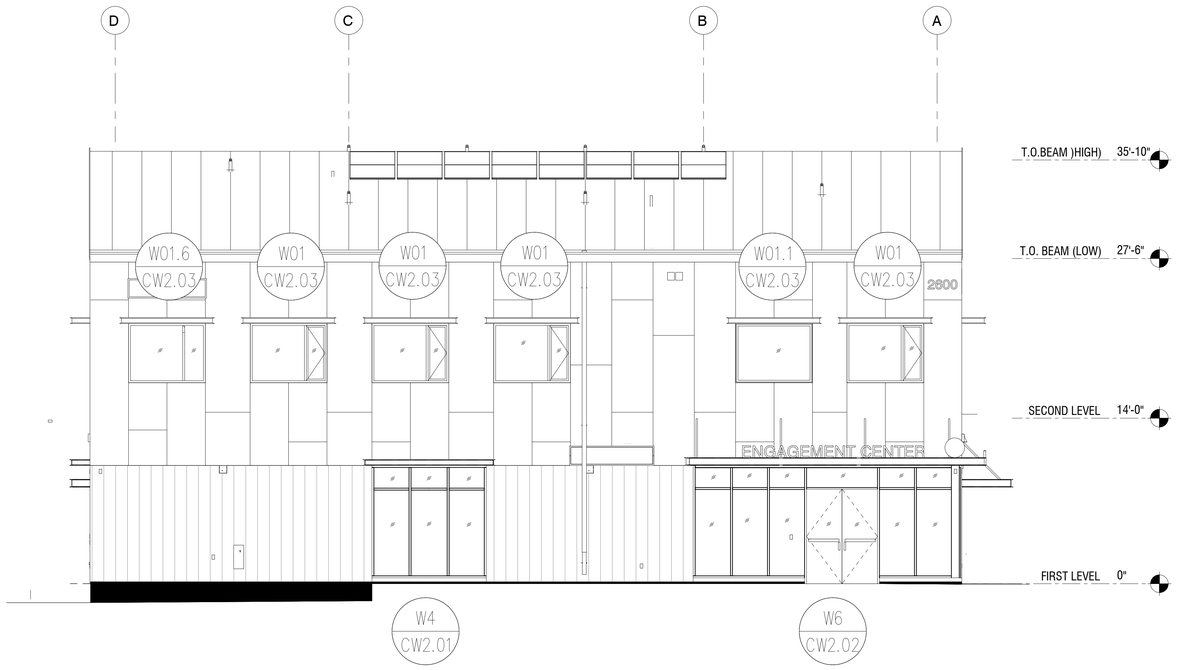
FLOOR PLAN-SECOND LEVEL

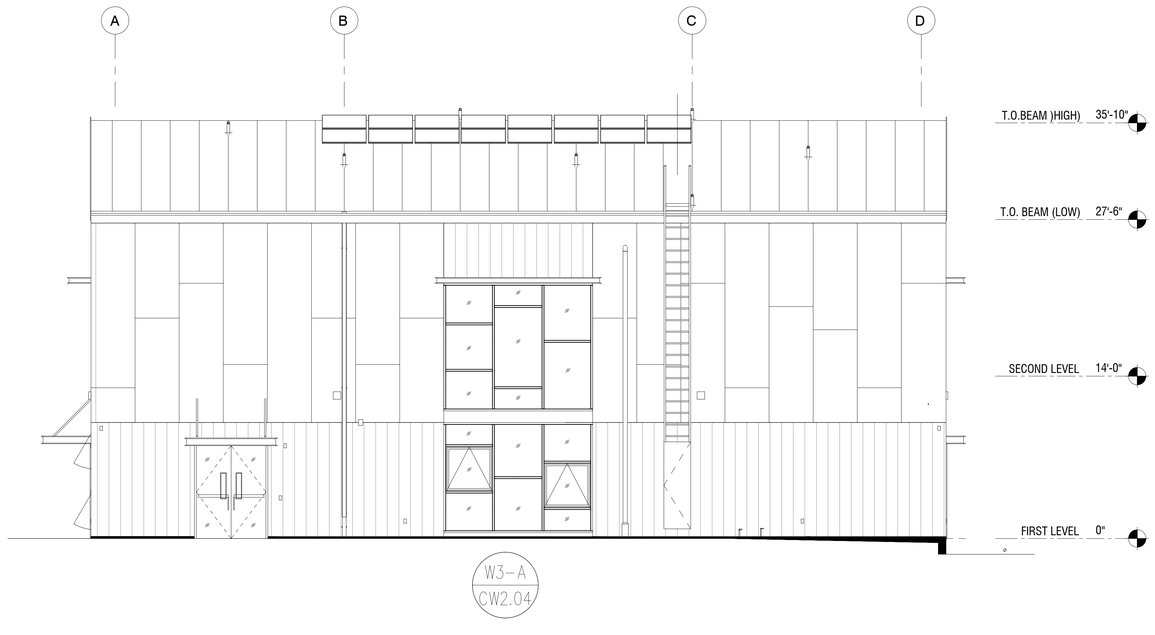
SHEET NUMBER:

CW1.02-02



1 NORTH ELEVATION

Arch Ref: 1/A300



2 SOUTH ELEVATION

Arch Ref: 2/A300

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SHEET TITLE

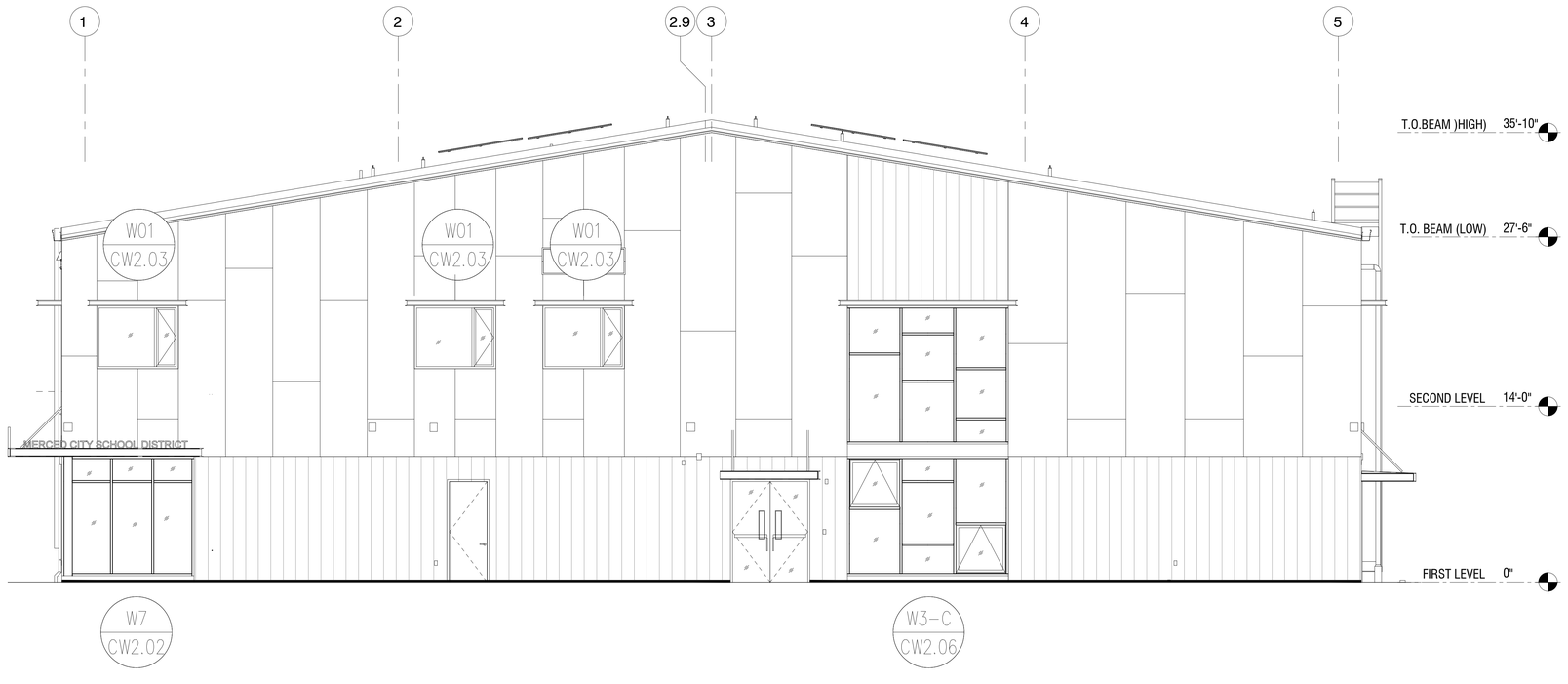
BUILDING ELEVATIONS

SHEET NUMBER:

CW2.00A-02

3 EAST ELEVATION

Arch Ref: 3/A300



4 WEST ELEVATION

Arch Ref: 4/A300

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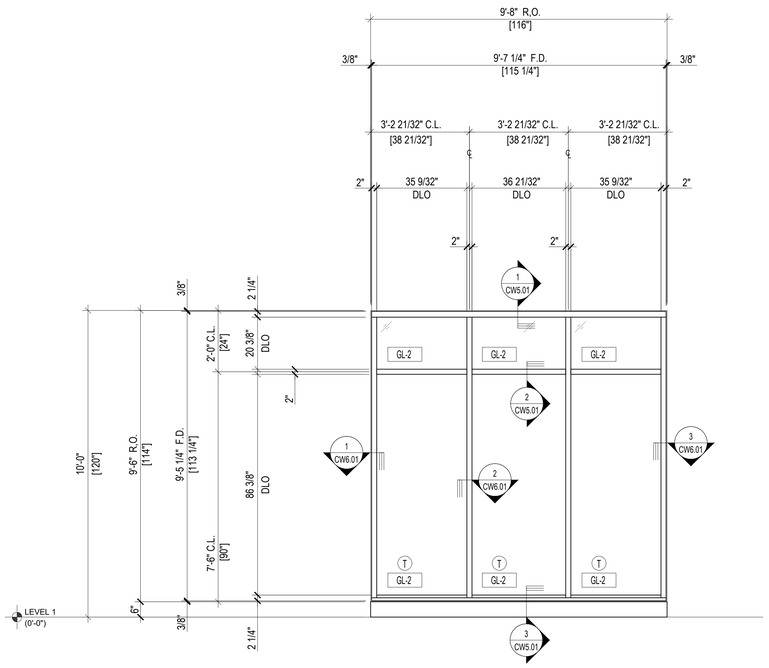
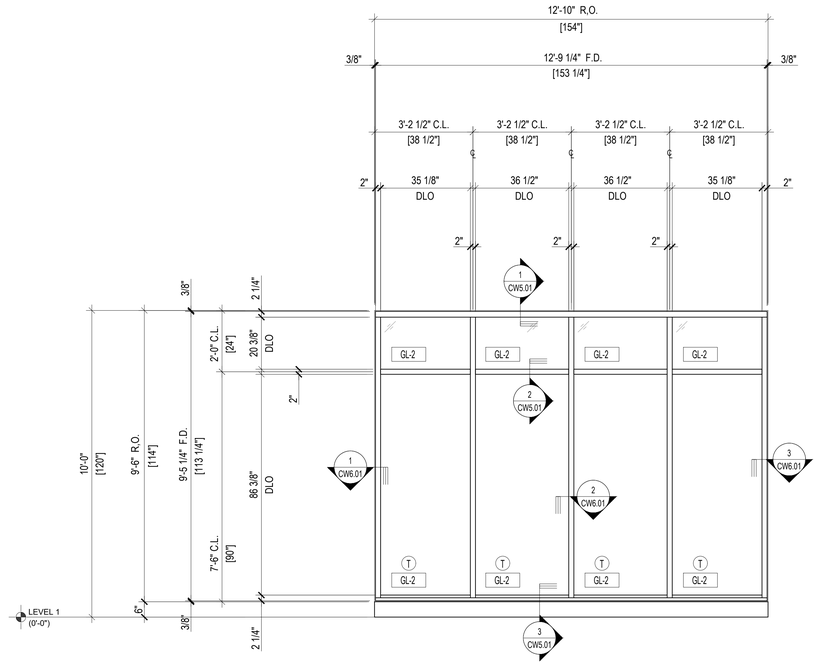
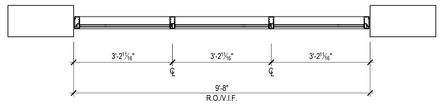
BUILDING ELEVATIONS

SHEET NUMBER:

CW2.00B-02



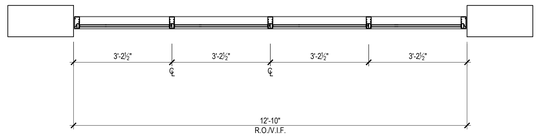




EXTERIOR STOREFRONT ELEVATION
AFG-451T: 2" x 4 1/2" FOR 1" GLASS
QTY. (1) AT NORTH

W4

Arch Ref: W4 / A701



EXTERIOR STOREFRONT ELEVATION
AFG-451T: 2" x 4 1/2" FOR 1" GLASS
QTY. (1) AT EAST

W5

Arch Ref: W5 / A701

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SF ELEVATIONS

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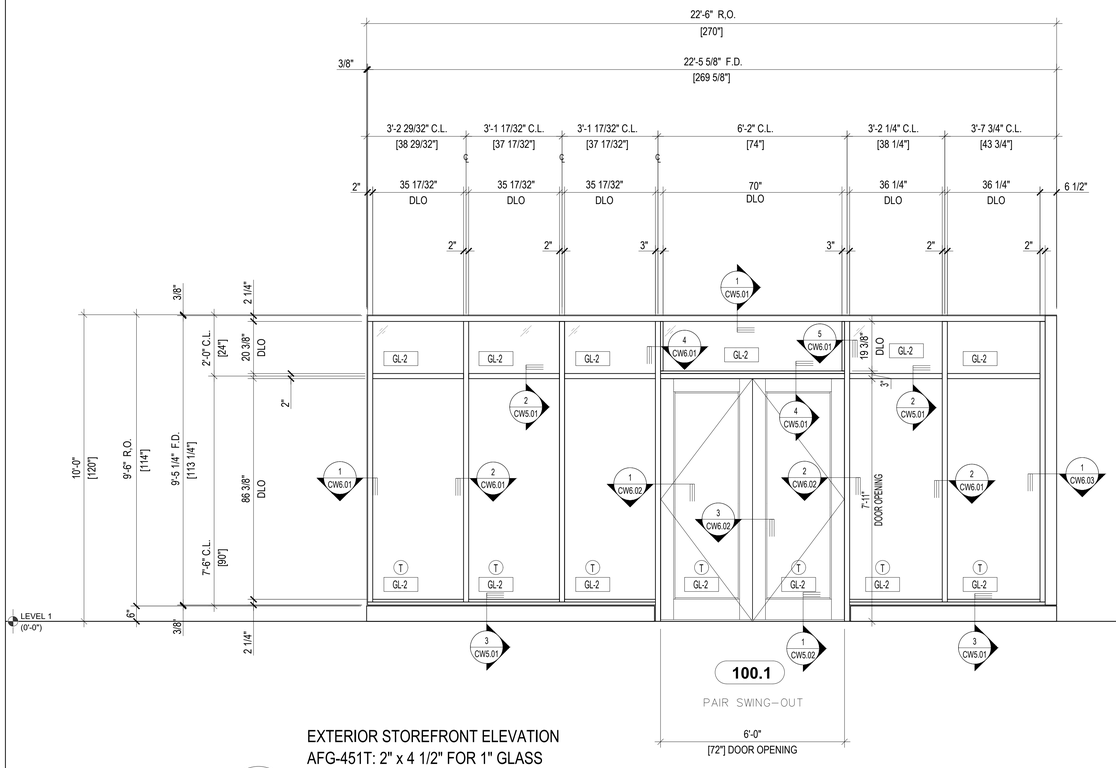
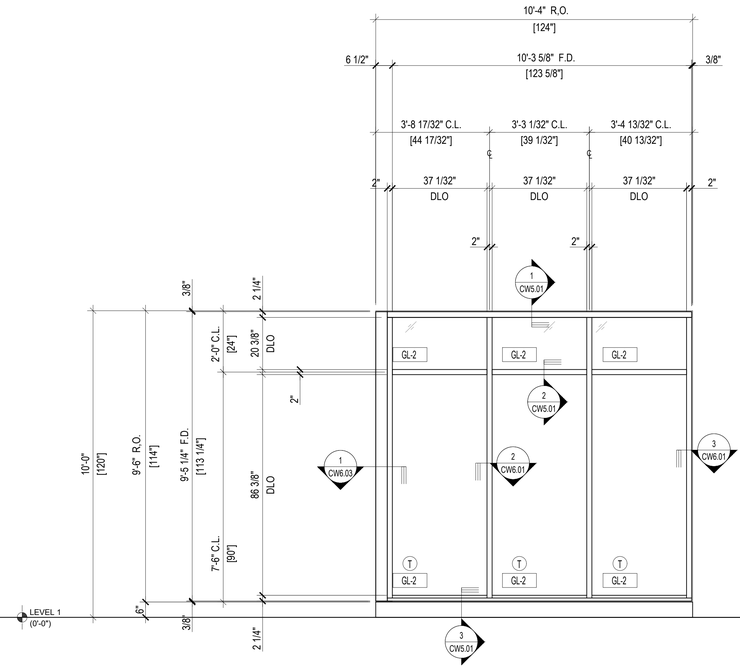


EXTERIOR STOREFRONT ELEVATION
AFG-451T: 2" x 4 1/2" FOR 1" GLASS
QTY. (1) AT NORTH

W6

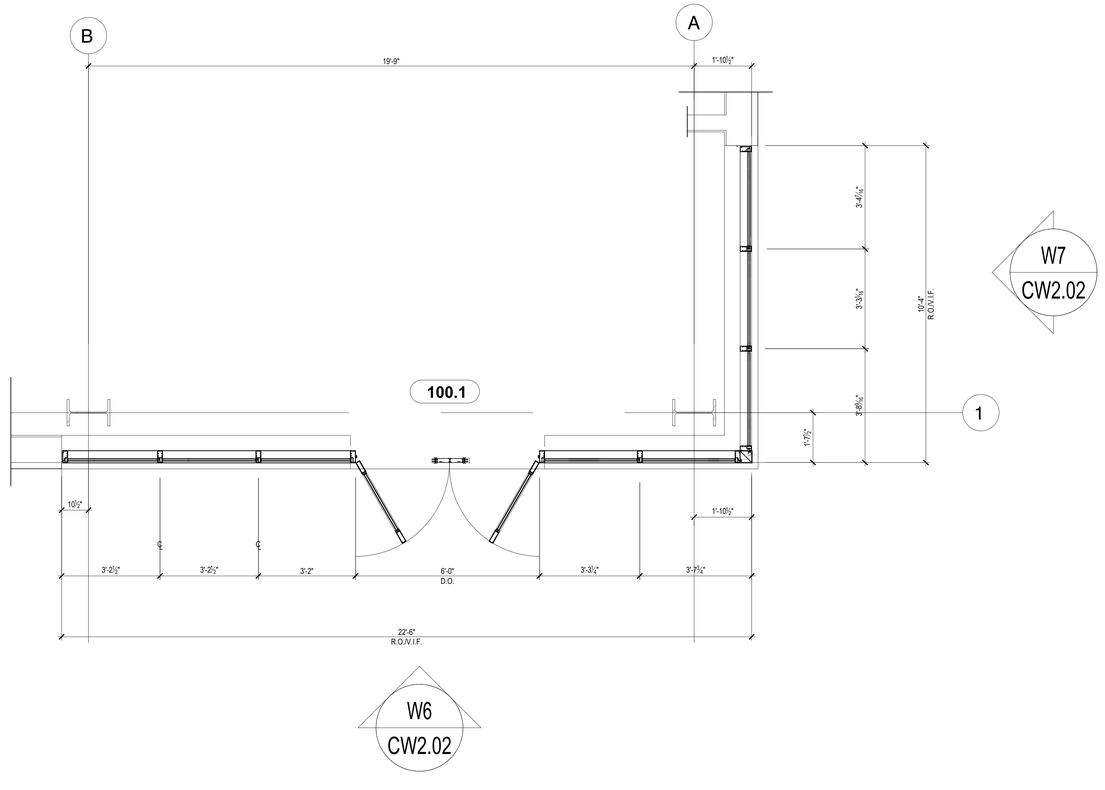
Arch Ref: W6 / A701



EXTERIOR STOREFRONT ELEVATION
AFG-451T: 2" x 4 1/2" FOR 1" GLASS
QTY. (1) AT WEST

W7

Arch Ref: W7 / A701



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SF ELEVATIONS

SHEET NUMBER:

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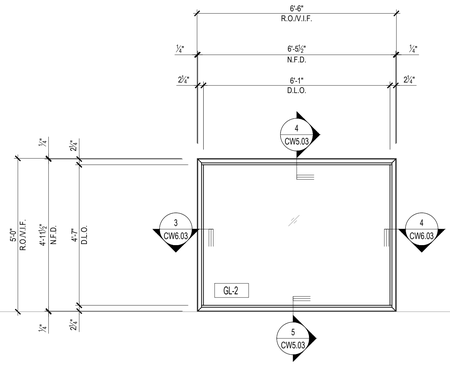
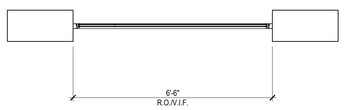
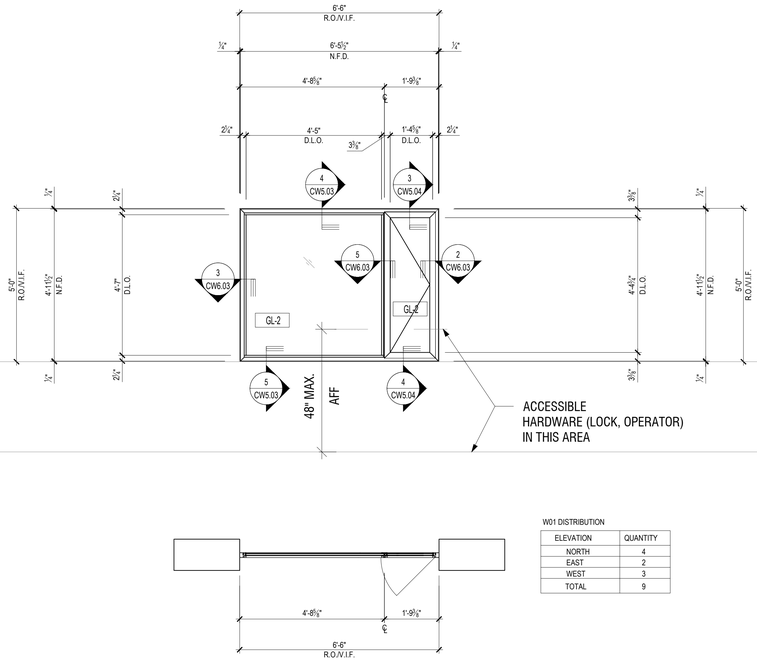




EXTERIOR ELEVATION
T200 WINDOW SERIES
QTY. (1) AT NORTH

W01.1

Arch Ref: W01.1 / A701



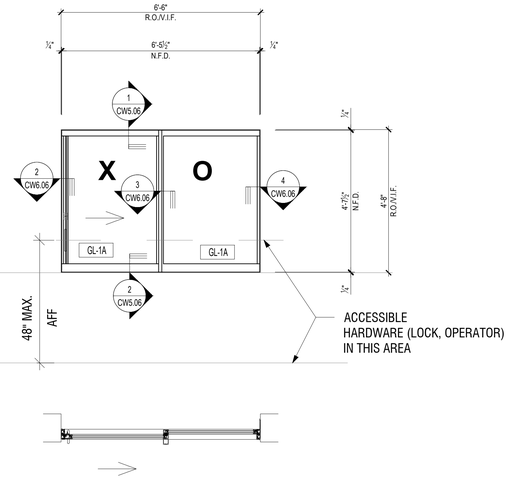
W01 DISTRIBUTION

ELEVATION	QUANTITY
NORTH	4
EAST	2
WEST	3
TOTAL	9

EXTERIOR WINDOW ELEVATION
T200 WINDOW SERIES
QTY. (9) SEE W01 DISTRIBUTION

W01

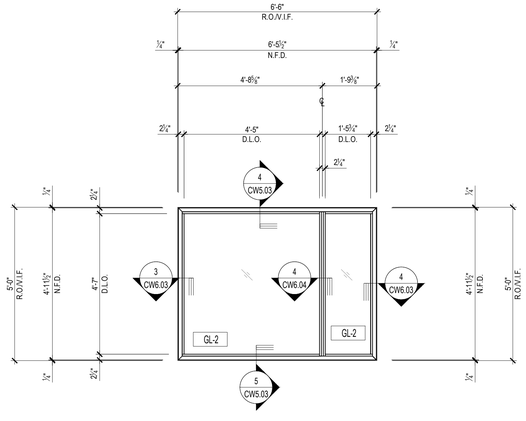
Arch Ref: W01 / A701

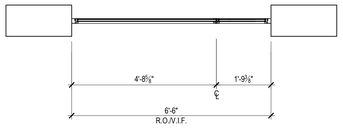


ULT5920 Series Sliding Windows
QTY. (7) AT INTERIOR

W2

Arch Ref: W2 / A701





EXTERIOR WINDOW ELEVATION
T200 WINDOW SERIES
QTY. (1) AT NORTH

W01.6

Arch Ref: W01 / A701

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DIV. OF THE STATE ARCHITECT
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DATE: 01/08/2026

yc+d ARCHITECTURE
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MARS/ELOP FACILITY
MCSD - 26TH ST.

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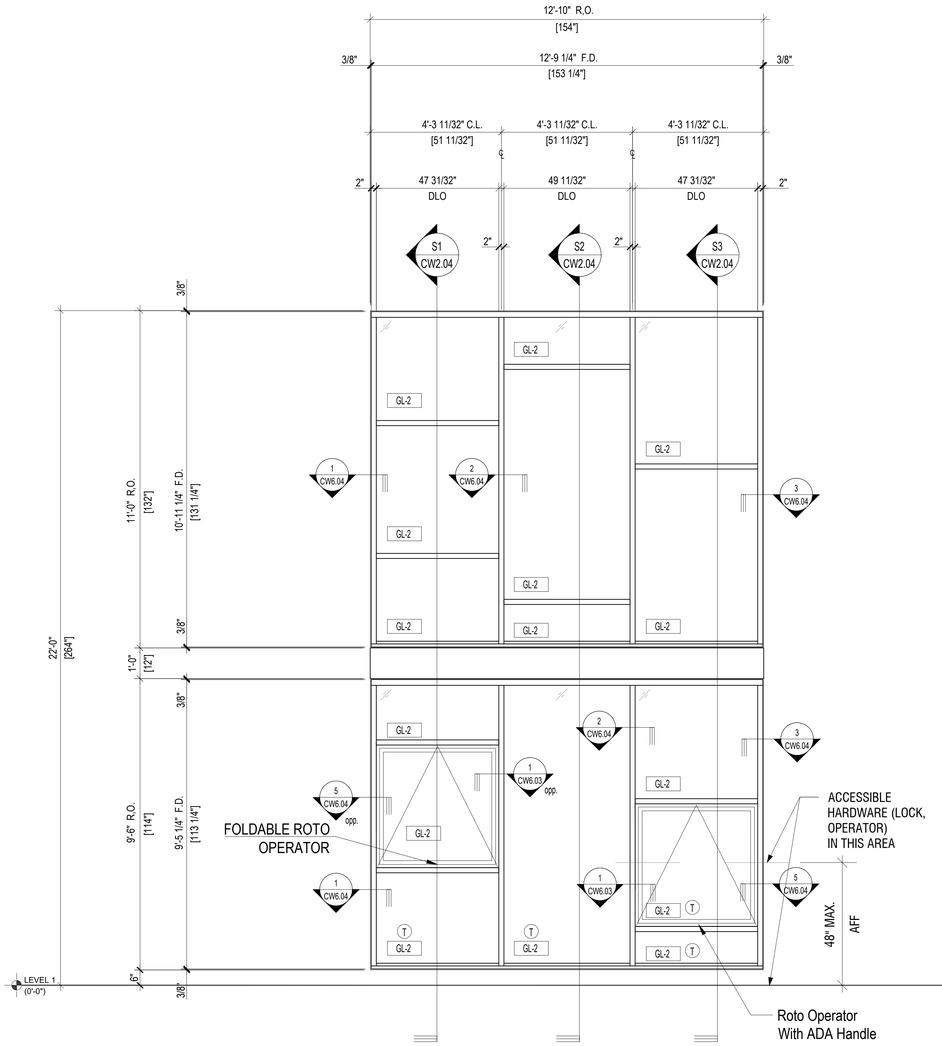
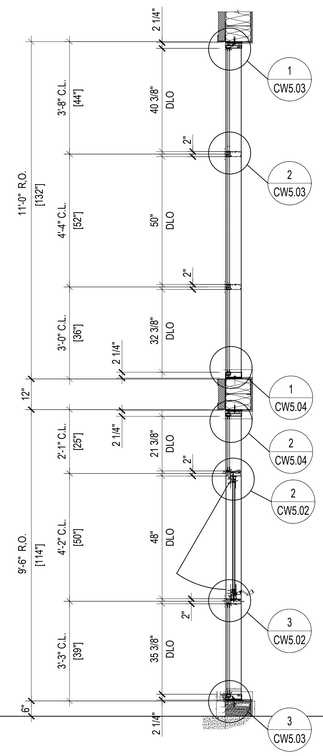
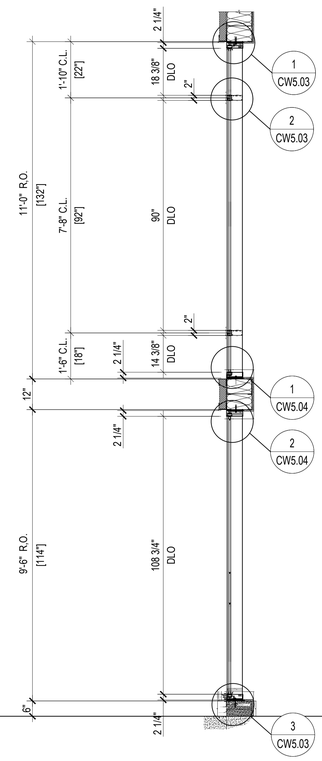
SF ELEVATIONS

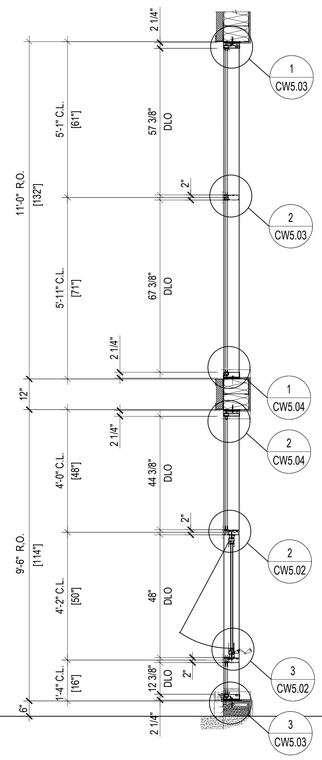
SHEET NUMBER:

CW2.03-02





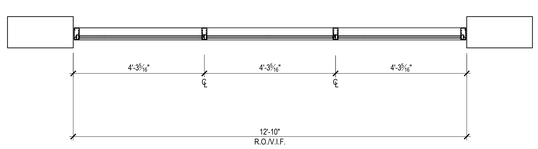




S1 SECTION
Arch Ref: NONE

S2 SECTION
Arch Ref: NONE

S3 SECTION
Arch Ref: NONE



W3-A
EXTERIOR STOREFRONT ELEVATION
AFG-601T: 2" x 6" FOR 1" GLASS
QTY. (1) AT SOUTH
Arch Ref: W3.1, W3.2 / A701

IDENTIFICATION STAMP
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SHEET NUMBER:
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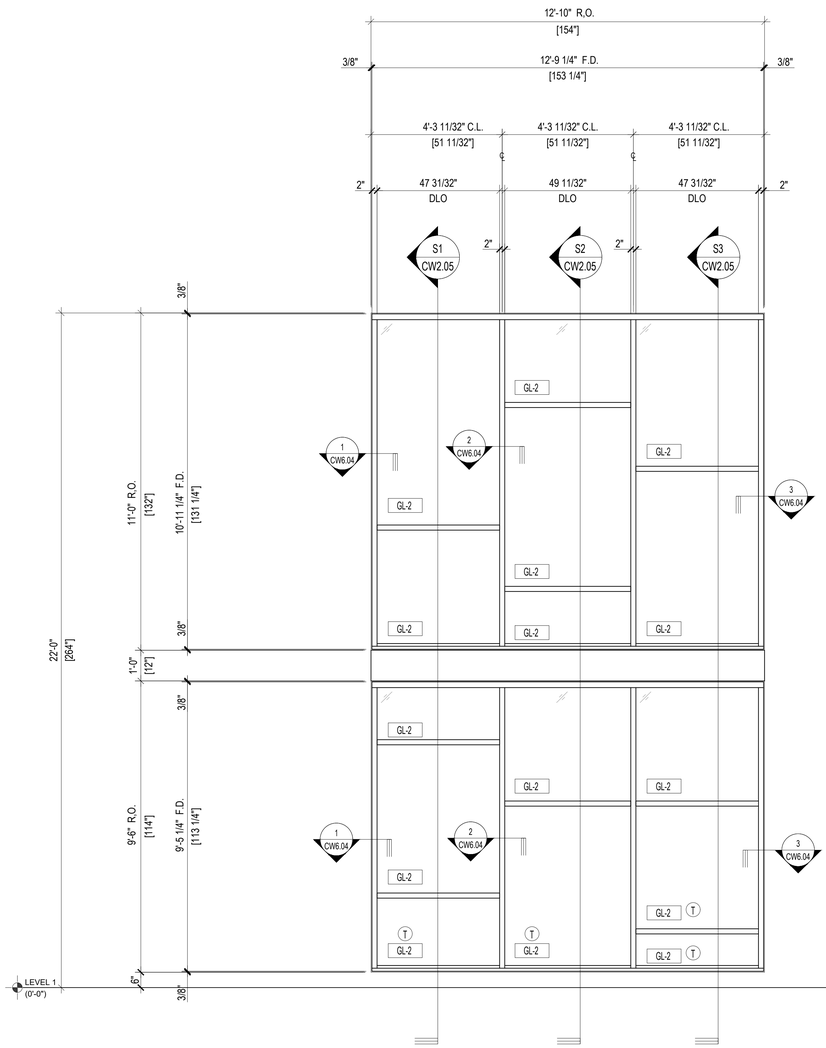

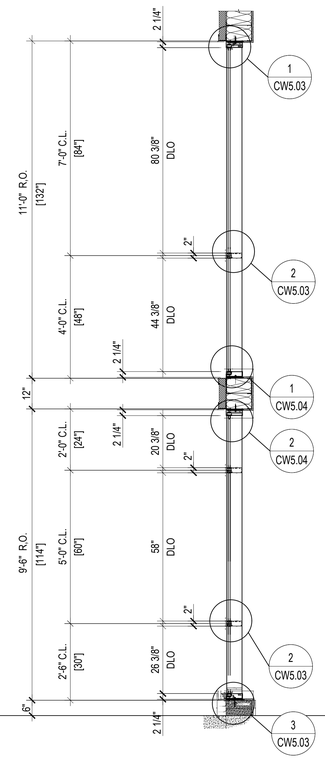

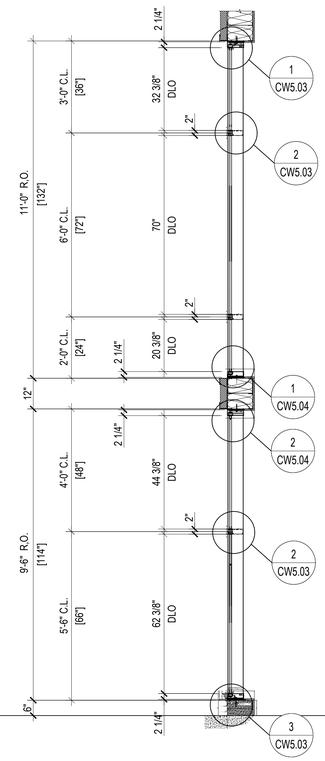

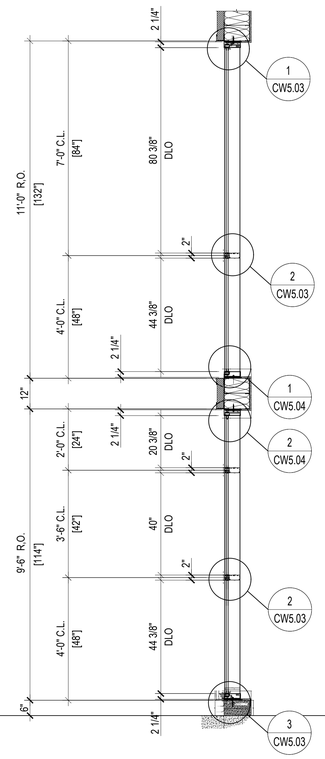

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Arch Ref: NONE

S2 SECTION
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S3 SECTION
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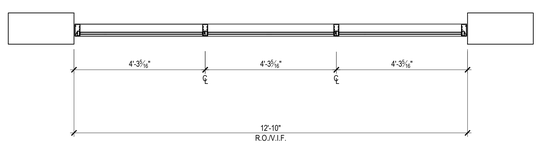

W3-B
EXTERIOR STOREFRONT ELEVATION
AFG-601T: 2" x 6" FOR 1" GLASS
QTY. (1) AT EAST
Arch Ref: W3.1, W3.2 / A701

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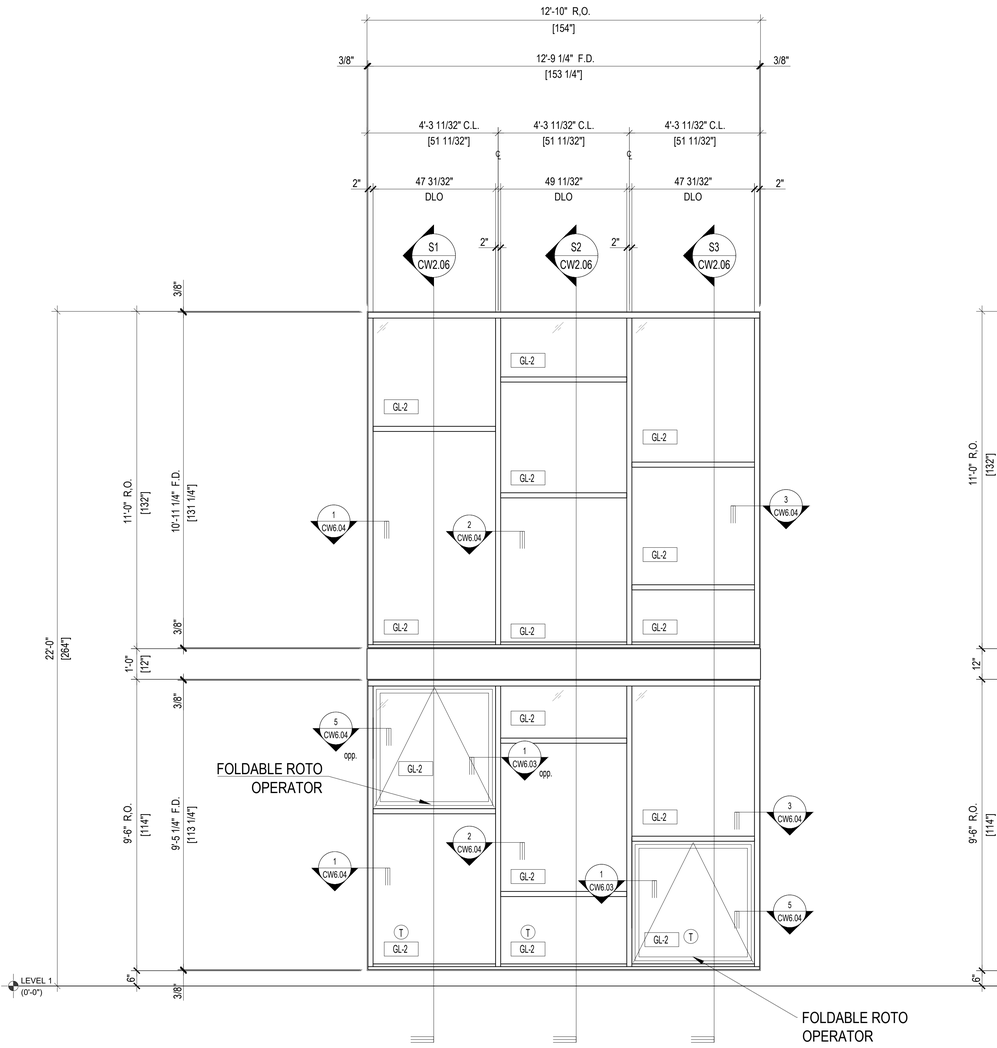
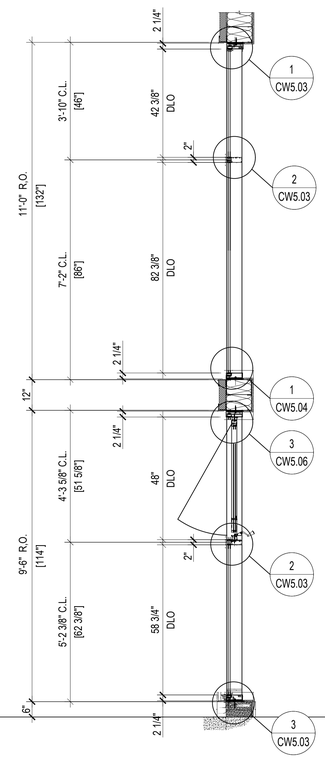
SF ELEVATIONS

SHEET NUMBER:
CW2.05-02





S1 SECTION

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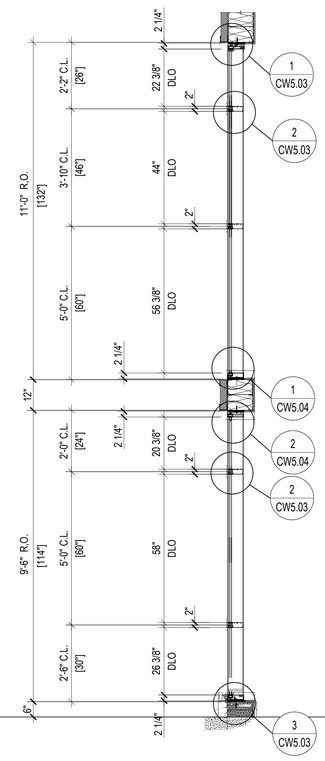

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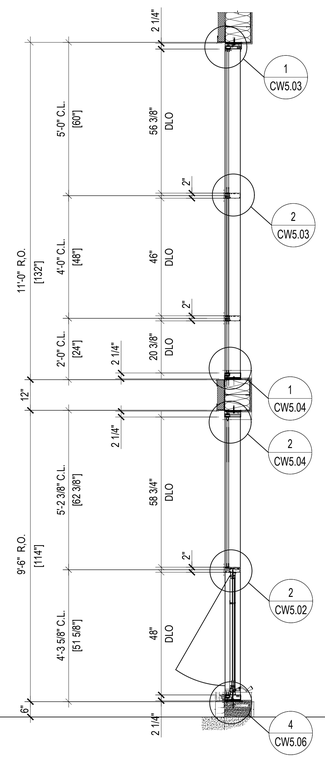

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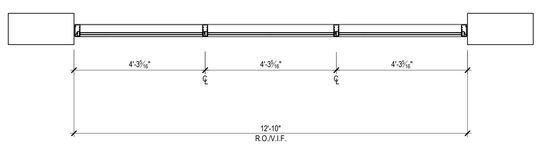

W3-C EXTERIOR STOREFRONT ELEVATION

AFG-601T: 2" x 6" FOR 1" GLASS

QTY. (1) AT EAST

Arch Ref: W3.1, W3.2 / A701

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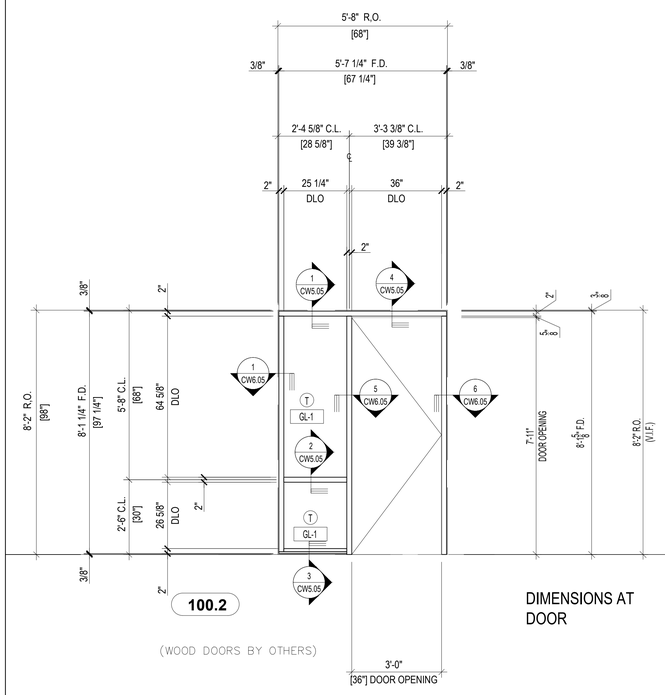
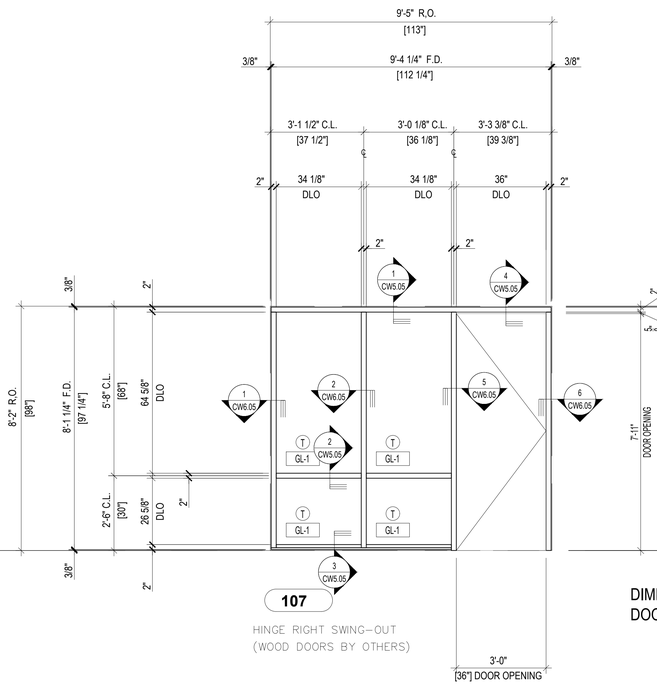
SHEET NUMBER:

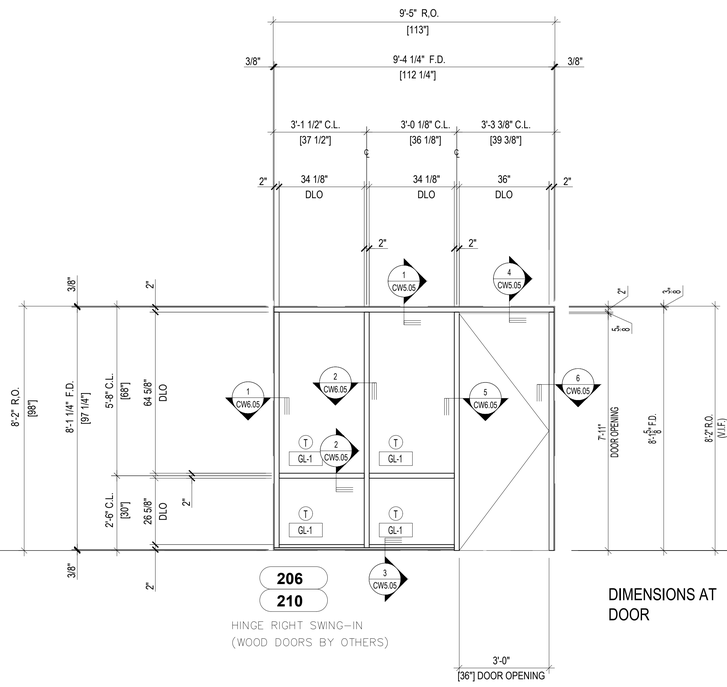
CW2.06-02



DIMENSIONS AT DOOR



DIMENSIONS AT DOOR



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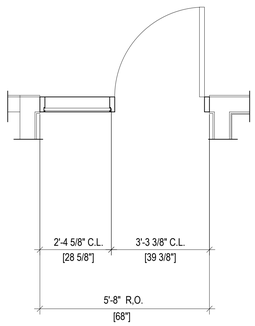
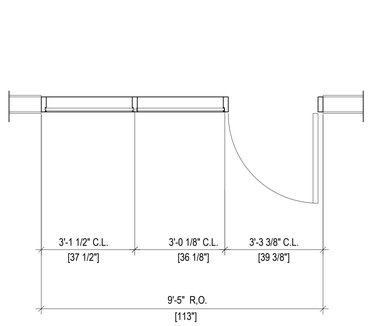


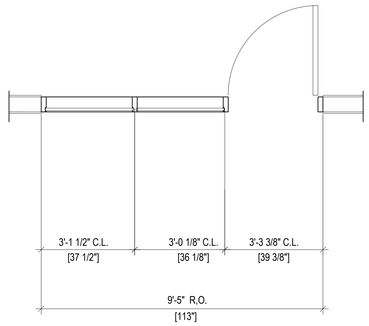
W8

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR
Arch Ref: W8 / A701



W9-A

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR
Arch Ref: W9 / A701



W9-B

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (2) AT INTERIOR
Arch Ref: W9 / A701

IDENTIFICATION STAMP
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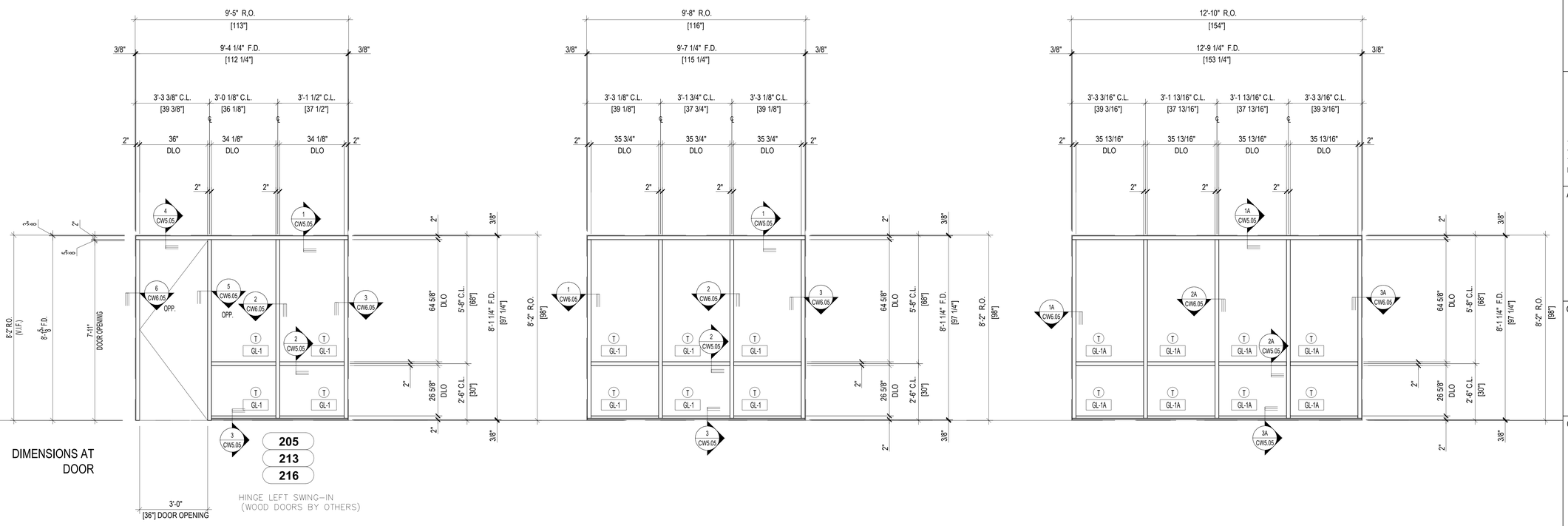
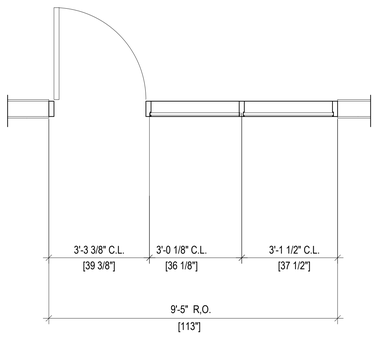


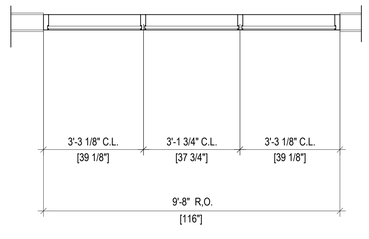
DIMENSIONS AT DOOR



W9-C

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (3) AT INTERIOR

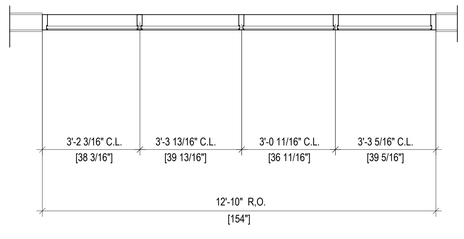
Arch Ref: W9 / A701



W10

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR

Arch Ref: W10 / A701



W11

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1" GLASS
QTY. (1) AT INTERIOR

Arch Ref: W11 / A701

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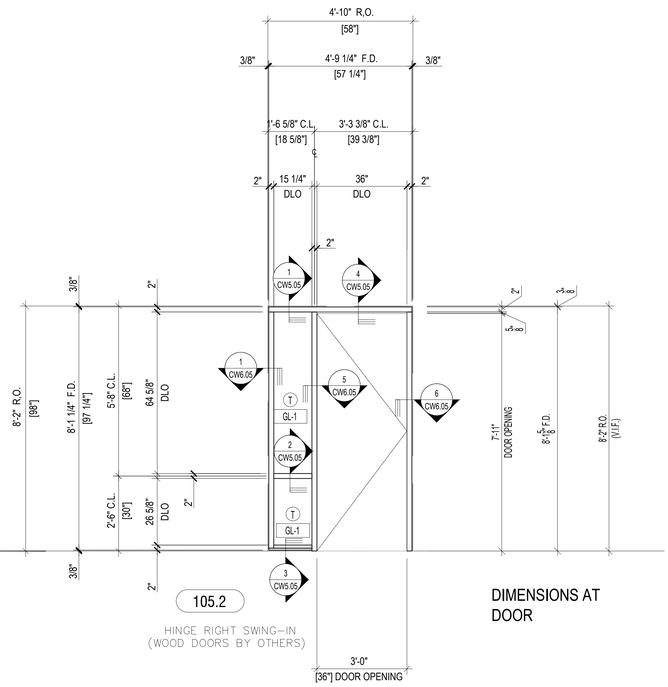
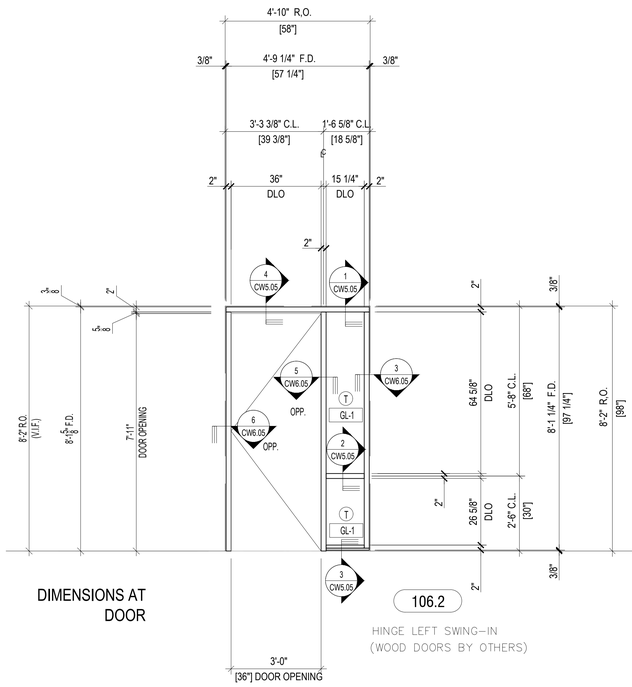
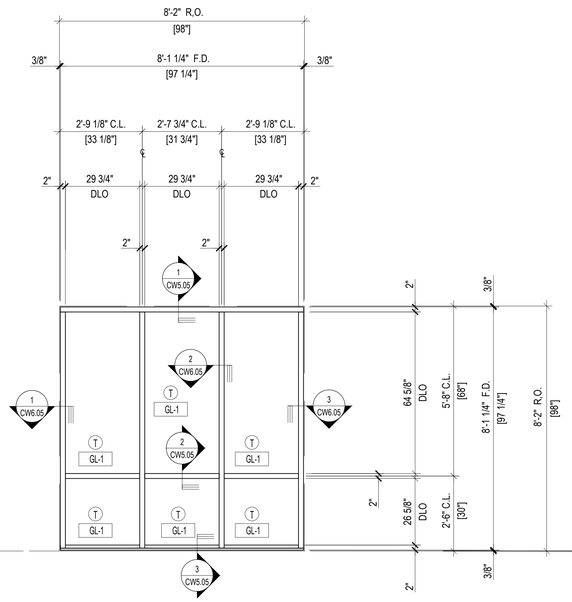
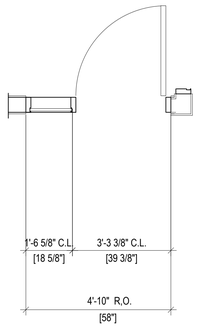


DIMENSIONS AT DOOR



DIMENSIONS AT DOOR

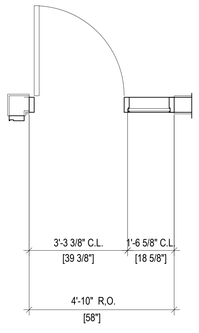




EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR

W12-A

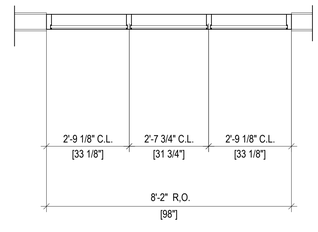
Arch Ref: W12 / A701



EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR

W12-B

Arch Ref: W12 / A701



EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR

W13

Arch Ref: W13 / A701

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CIVIL
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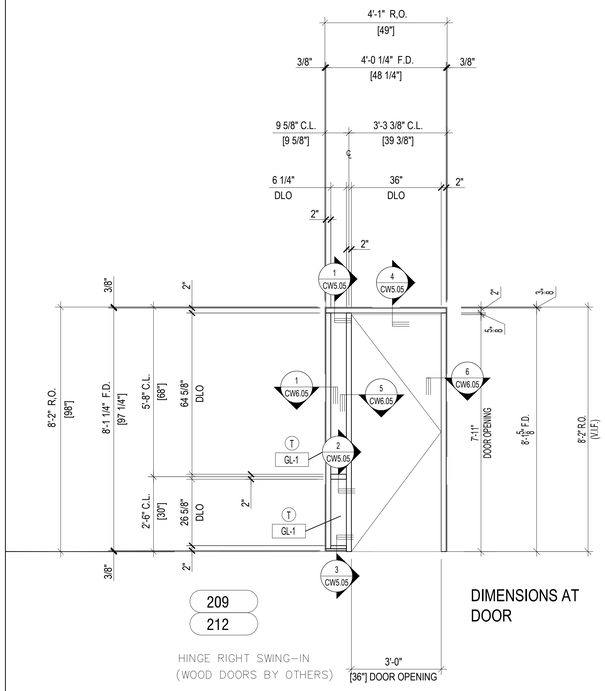
SHEET TITLE

SF ELEVATIONS

SHEET NUMBER:

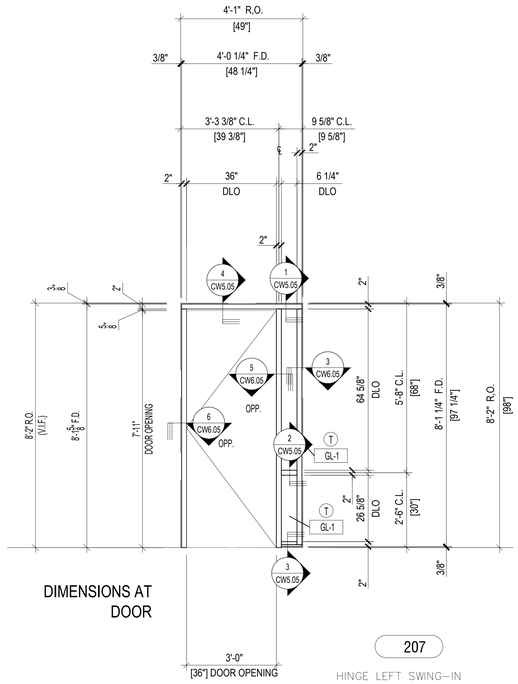
CW2.09-02



209
212

HINGE RIGHT SWING-IN
(WOOD DOORS BY OTHERS)

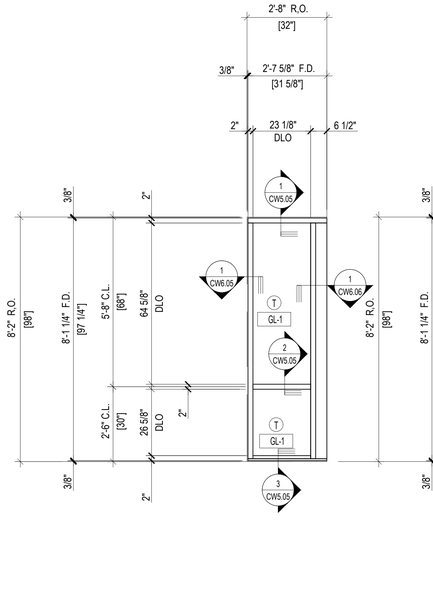
DIMENSIONS AT DOOR

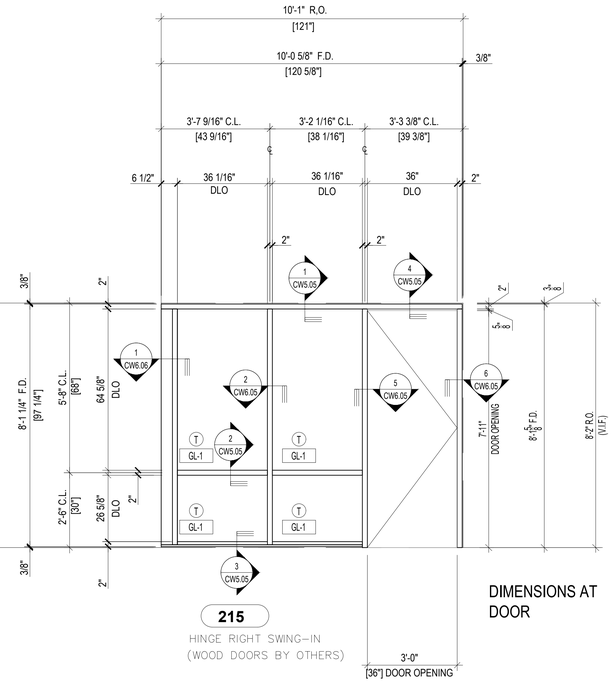


207

HINGE LEFT SWING-IN
(WOOD DOORS BY OTHERS)

DIMENSIONS AT DOOR

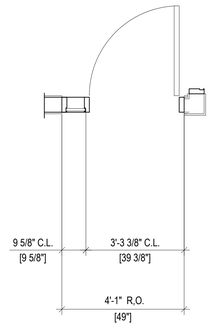




215

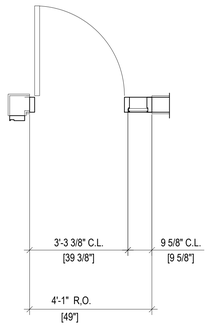
HINGE RIGHT SWING-IN
(WOOD DOORS BY OTHERS)

DIMENSIONS AT DOOR



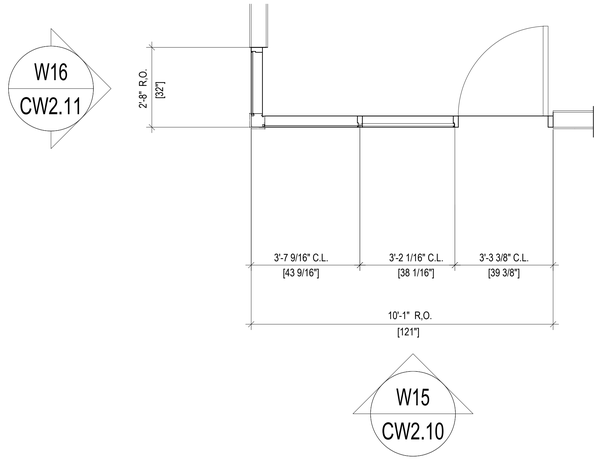
W14-A

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (2) AT INTERIOR
Arch Ref: W14 / A701



W14-B

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR
Arch Ref: W14 / A701



W16-A

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR
Arch Ref: W16 / A701

W15

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
QTY. (1) AT INTERIOR
Arch Ref: W15 / A701

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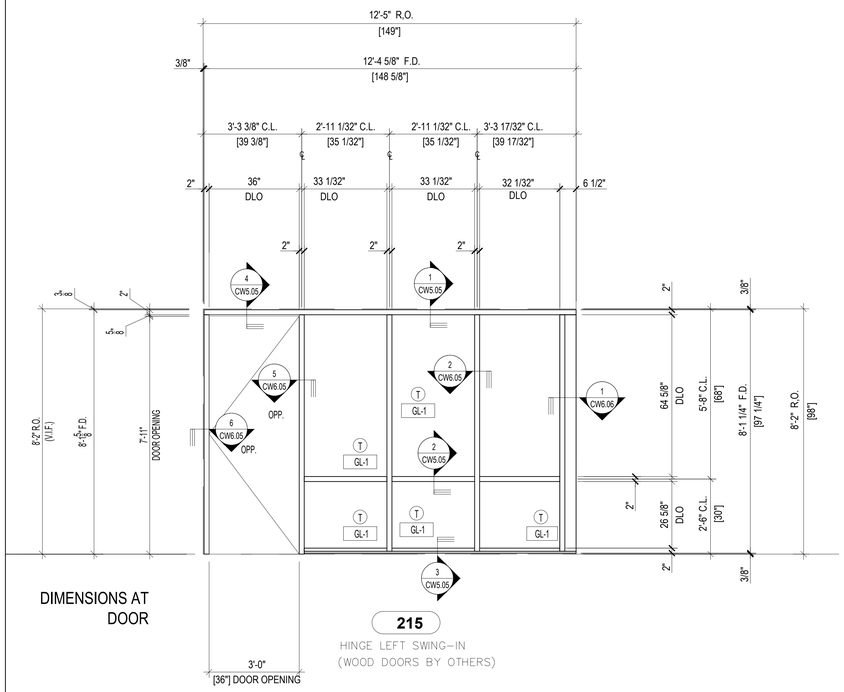
SF ELEVATIONS

SHEET NUMBER:

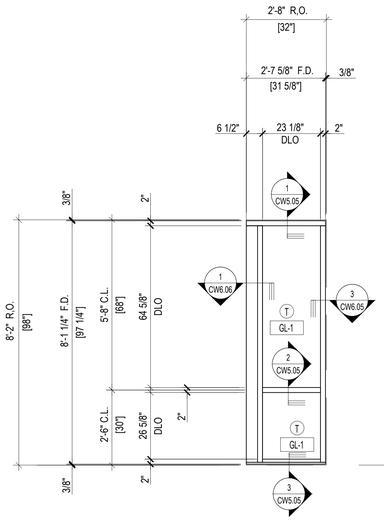
CW2.10-02

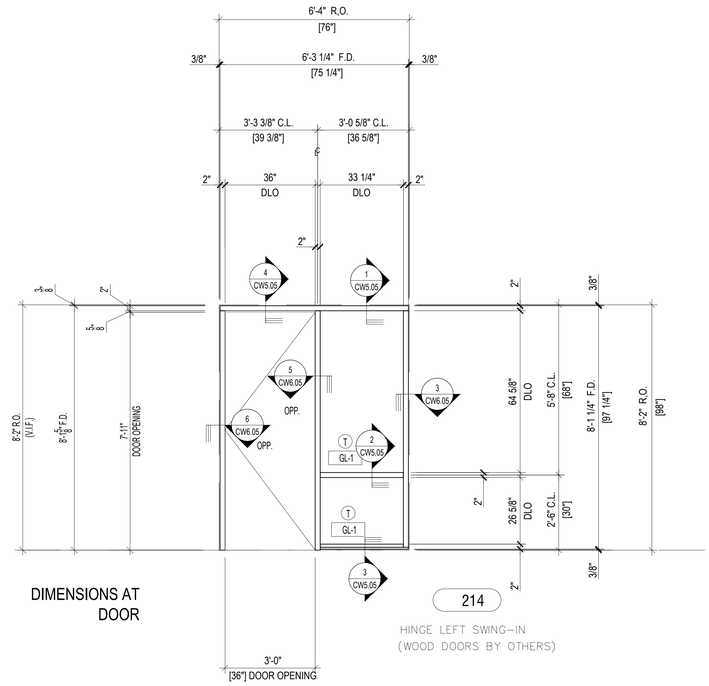


DIMENSIONS AT DOOR

215

HINGE LEFT SWING–IN
(WOOD DOORS BY OTHERS)

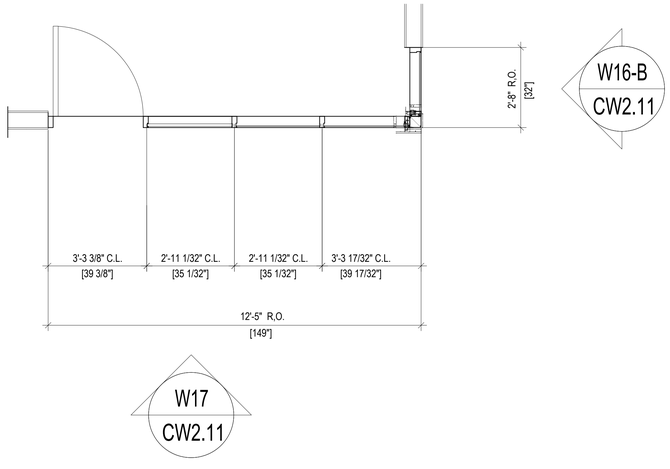




DIMENSIONS AT DOOR

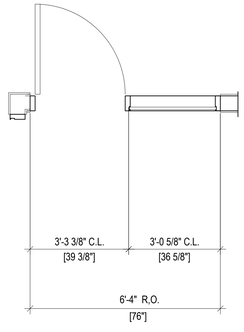
214

HINGE LEFT SWING–IN
(WOOD DOORS BY OTHERS)



EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
W17 — QTY. (1) AT INTERIOR
Arch Ref: W17 / A701

EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
W16-B — QTY. (1) AT INTERIOR
Arch Ref: W16 / A701



EXTERIOR STOREFRONT ELEVATION
AFG451: 2" x 4 1/2" FOR 1/4" GLASS
W18 — QTY. (1) AT INTERIOR
Arch Ref: W18 / A701

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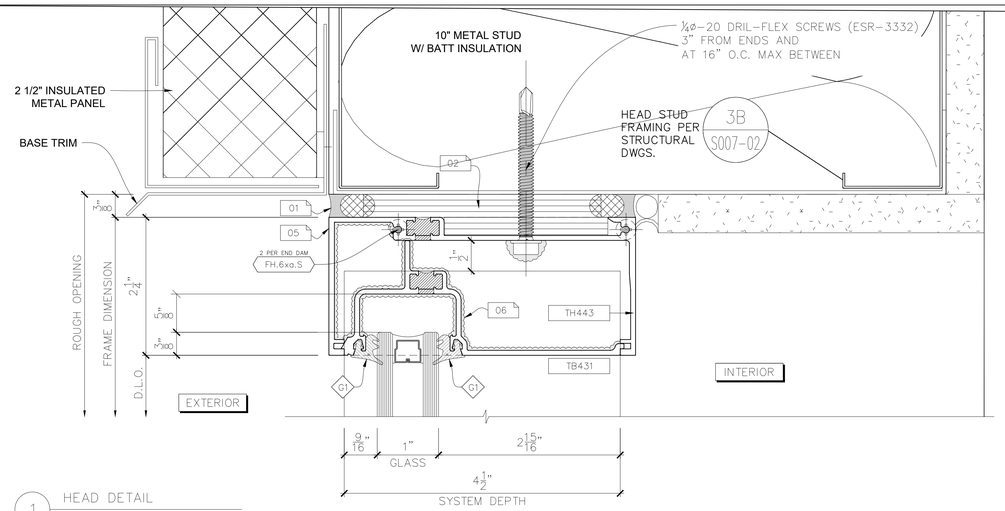
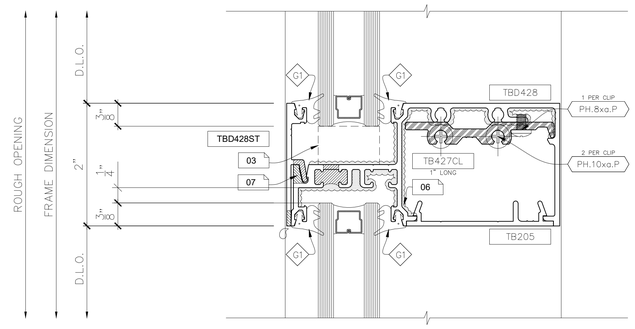
SF ELEVATIONS

SHEET NUMBER:

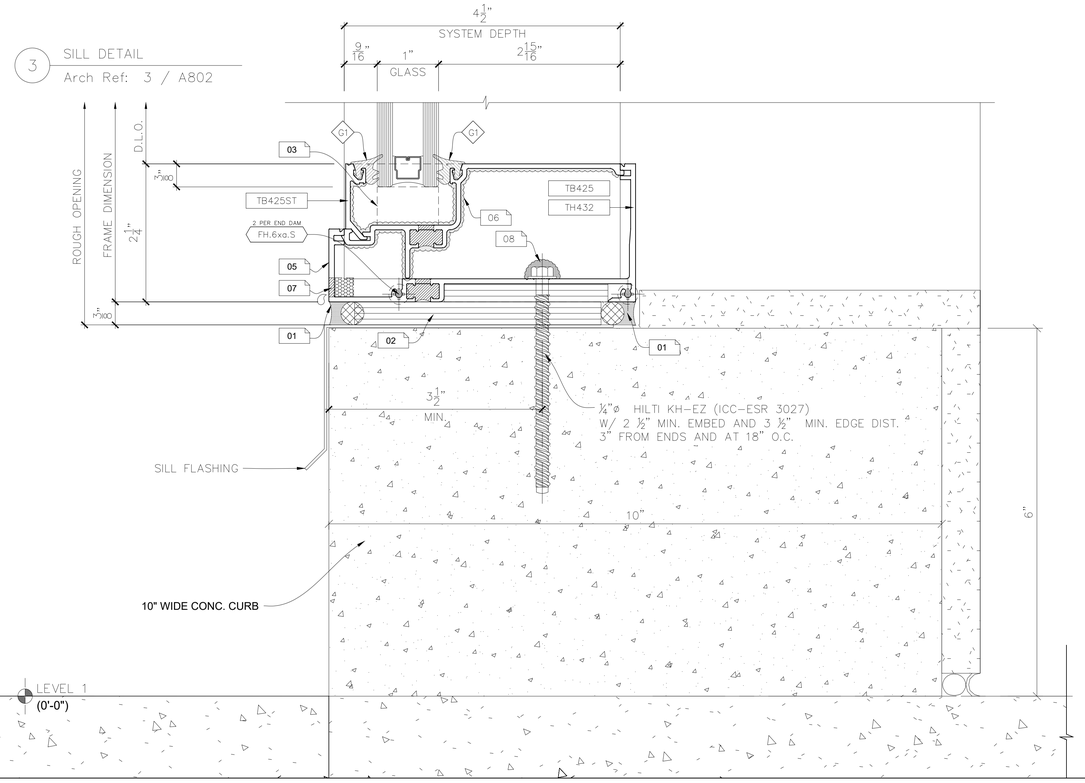
CW2.11-02



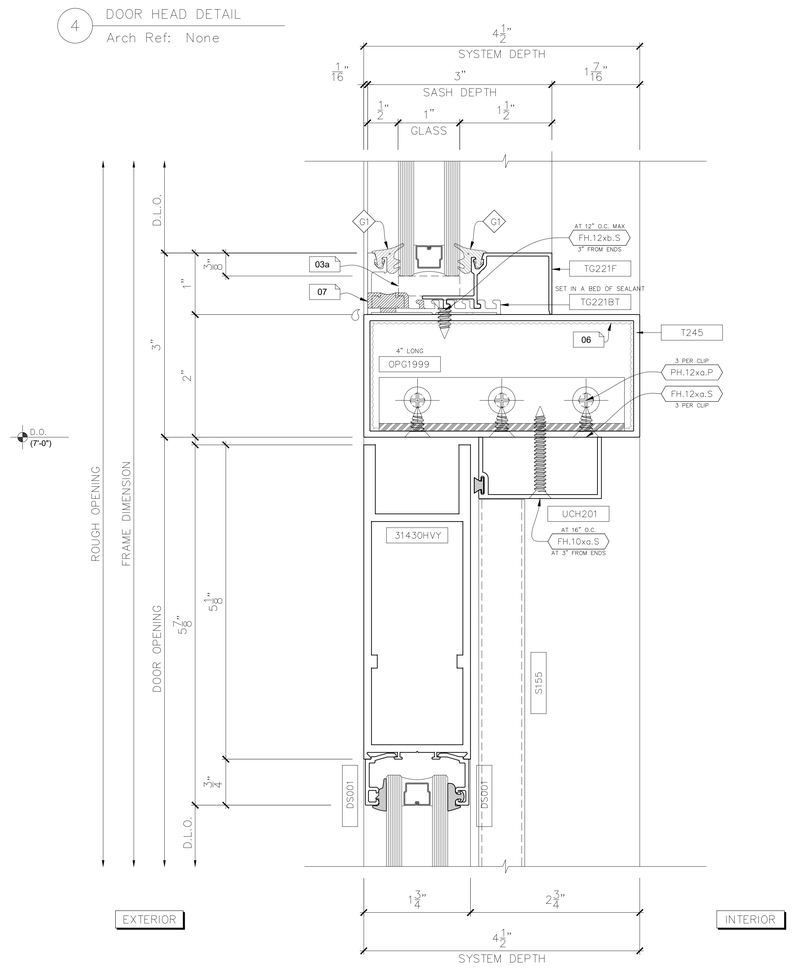
1 HEAD DETAIL
Arch Ref: 2 / A802



2 HORIZONTAL DETAIL
Arch Ref: None



3 SILL DETAIL
Arch Ref: 3 / A802



4 DOOR HEAD DETAIL
Arch Ref: None

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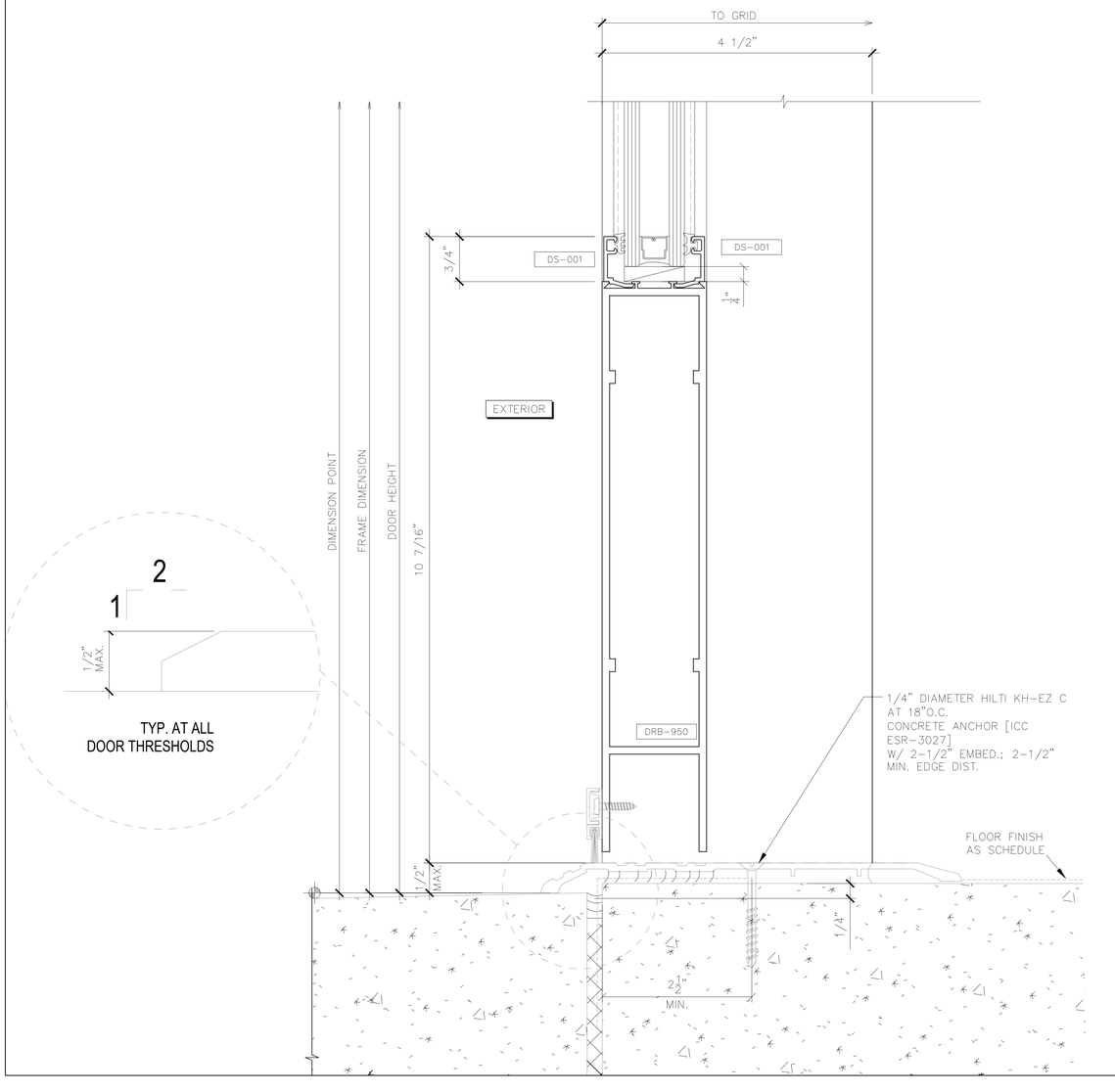
SECTION DETAILS

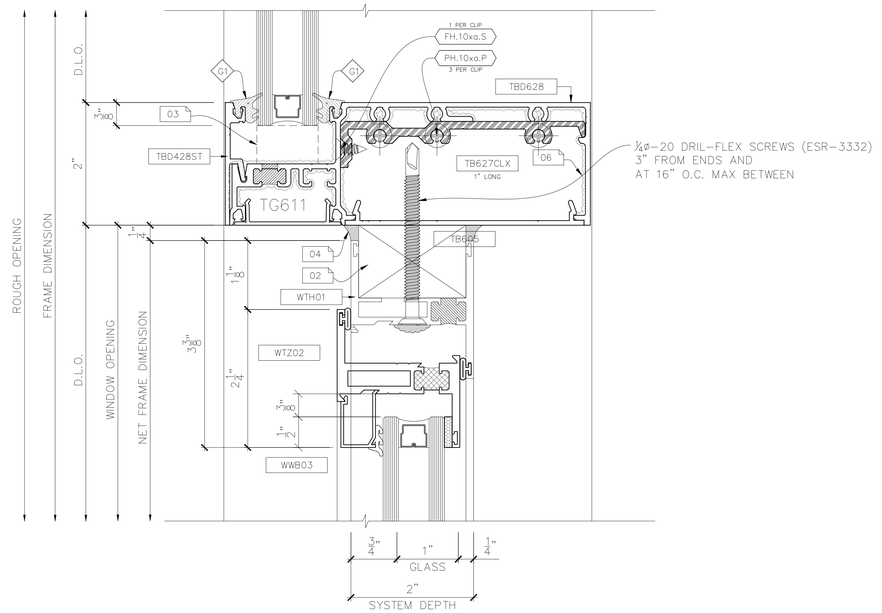
SHEET NUMBER:

CW5.01-02

1 DOOR SILL DETAIL
Arch Ref: None



2 HORIZONTAL AT WINDOW DETAIL
Arch Ref: None



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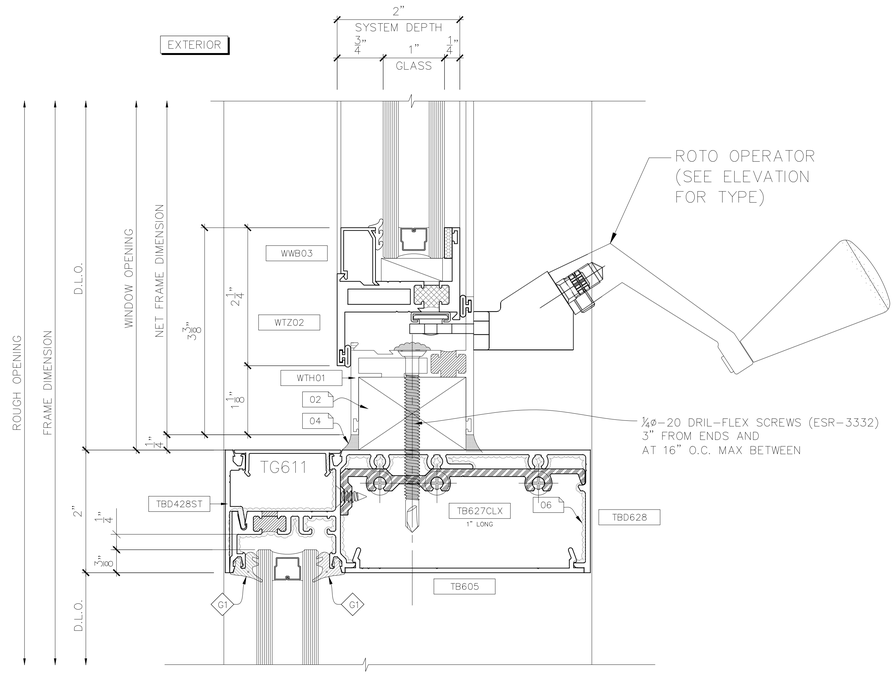
Arch Ref: None



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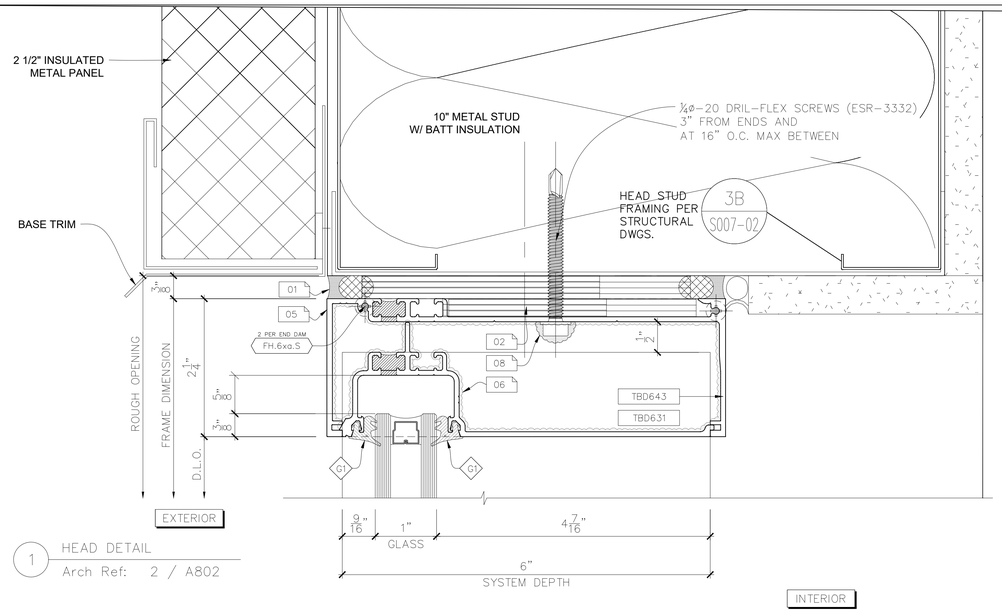
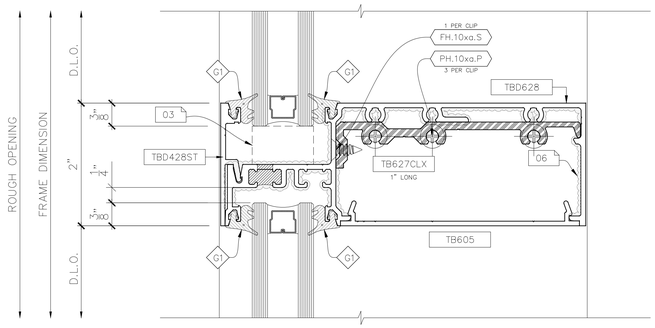
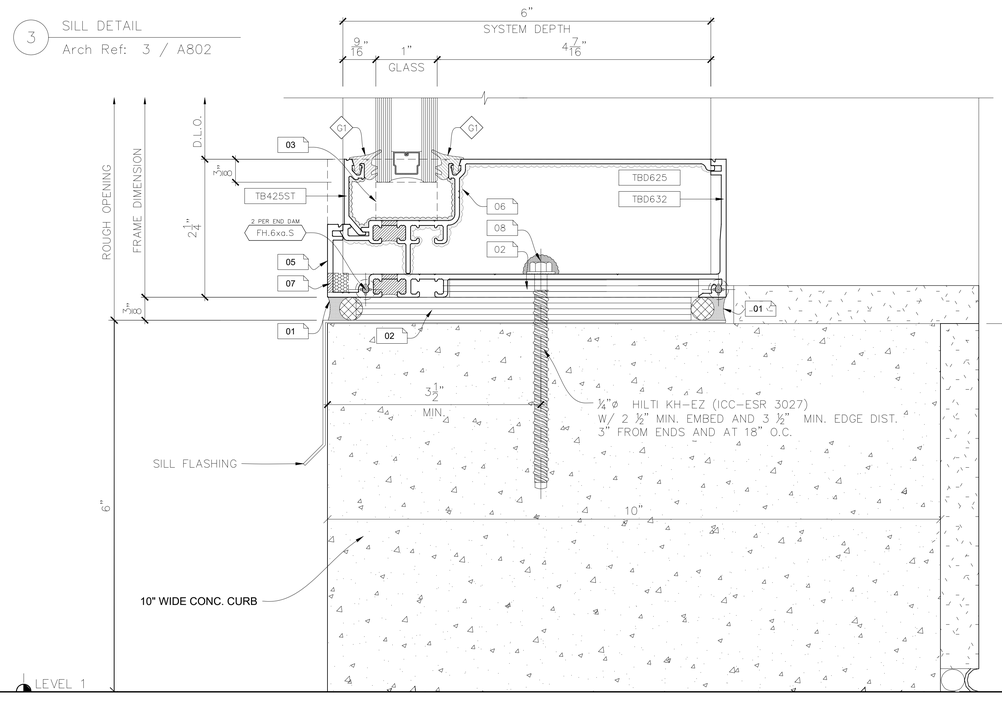
CW5.02-02



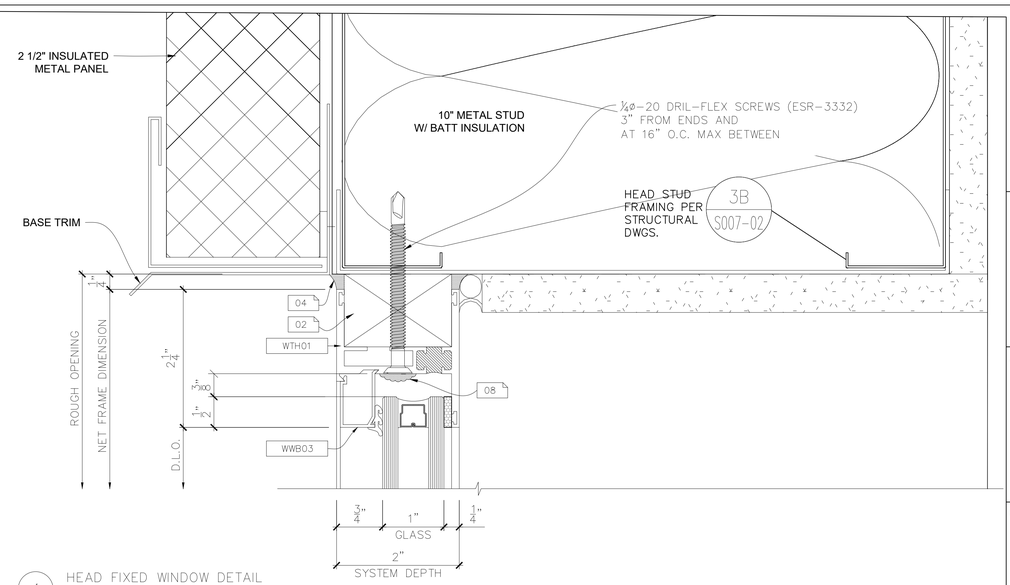
1 HEAD DETAIL
Arch Ref: 2 / A802

2 HORIZONTAL DETAIL
Arch Ref: None



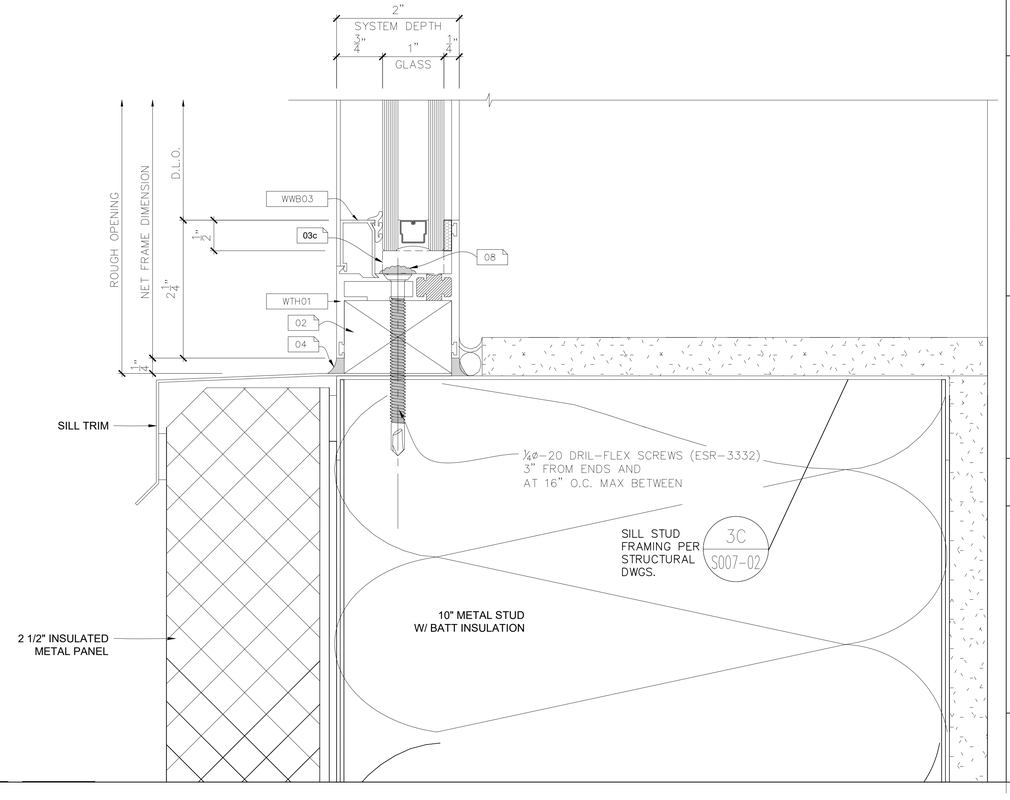


3 SILL DETAIL
Arch Ref: 3 / A802



4 HEAD FIXED WINDOW DETAIL
Arch Ref: 1 / A801

5 HEAD FIXED WINDOW DETAIL
Arch Ref: 2 / A801



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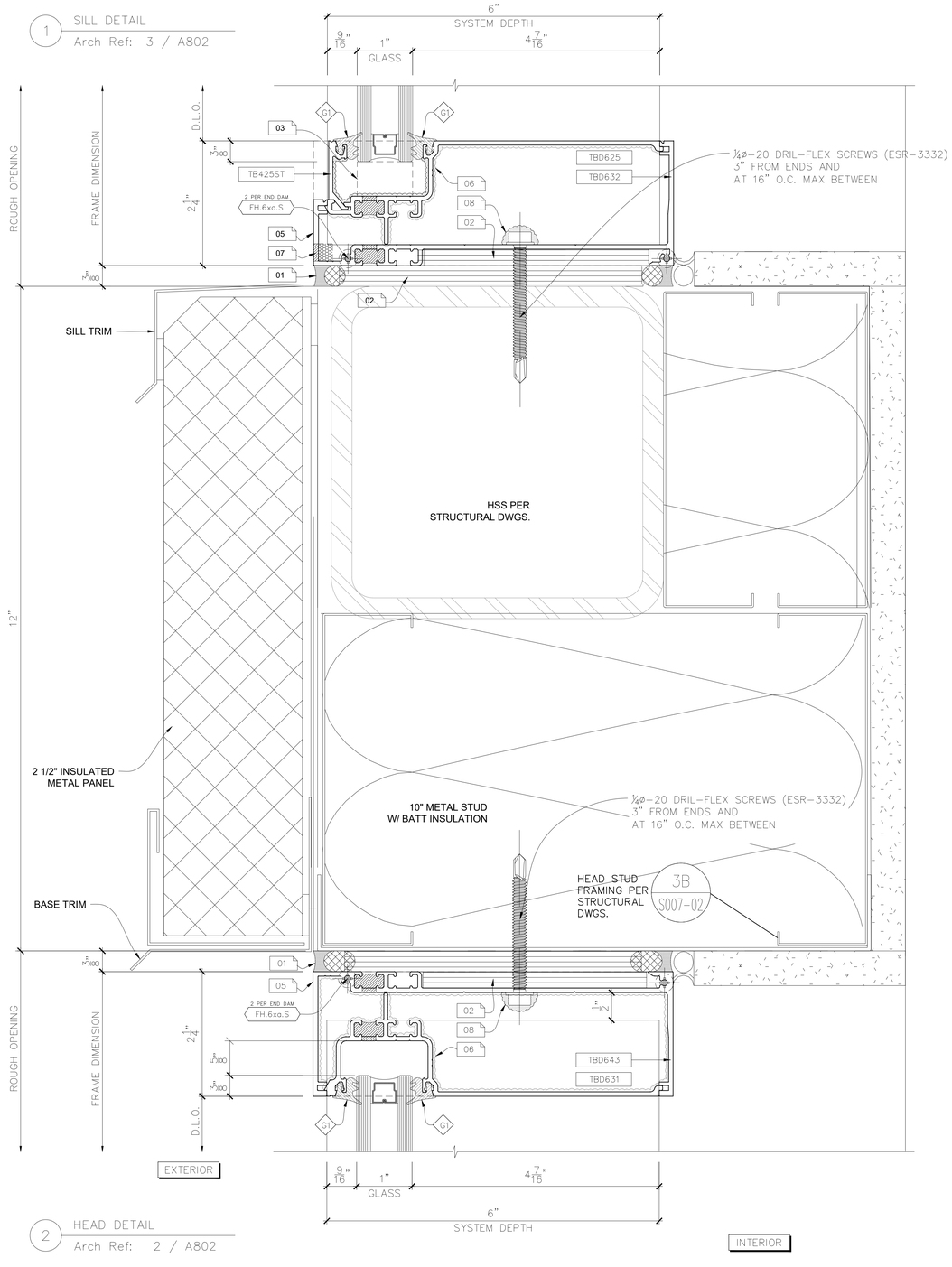
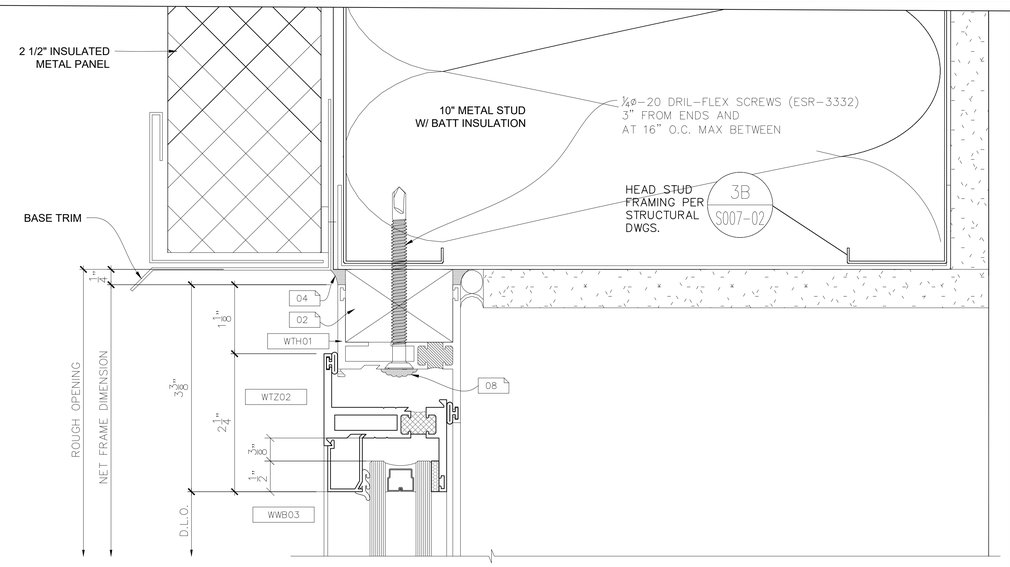
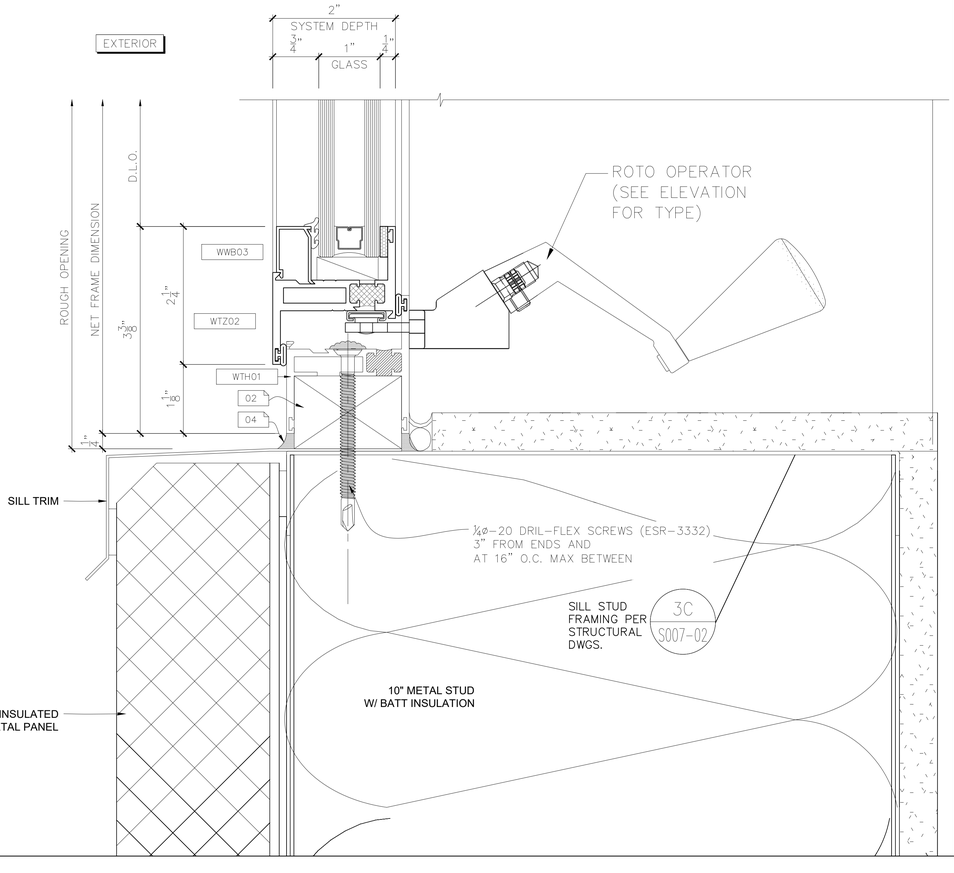
CW5.03-02







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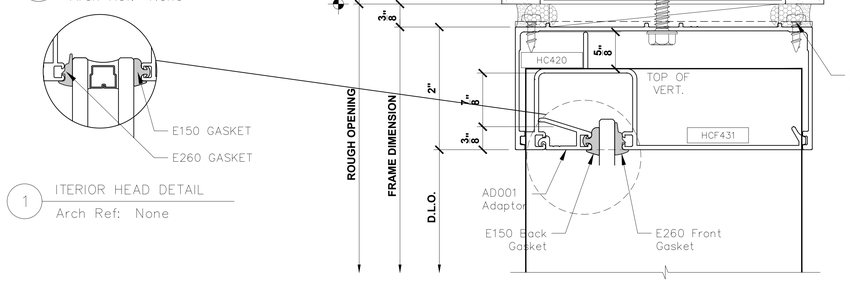
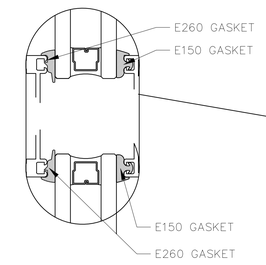
CW5.04-02



1A HEAD DETAIL W/1" GLASS
Arch Ref: None

1 ITERIOR HEAD DETAIL
Arch Ref: None



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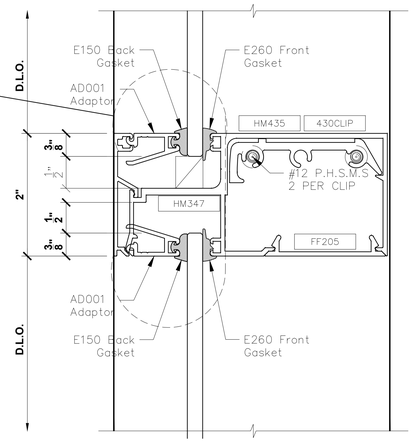

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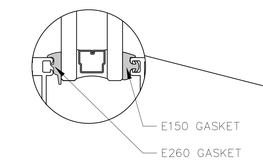

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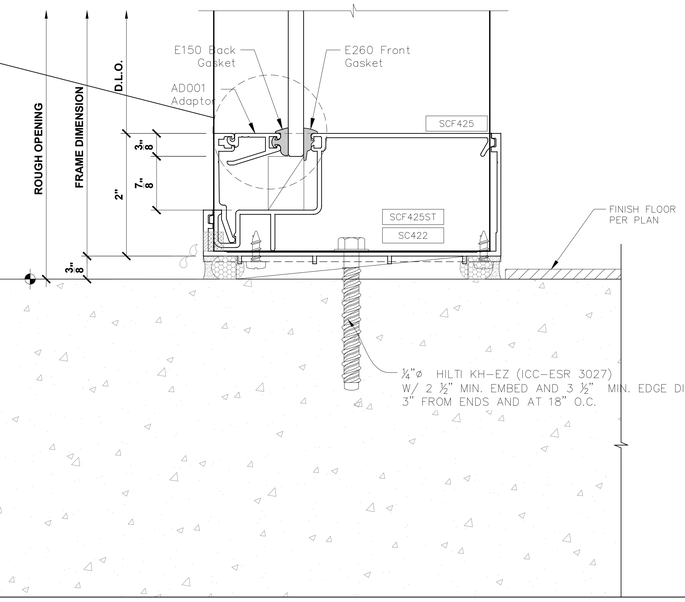

3 ITERIOR SILL DETAIL
Arch Ref: None

4 ITERIOR DOOR HEAD DETAIL
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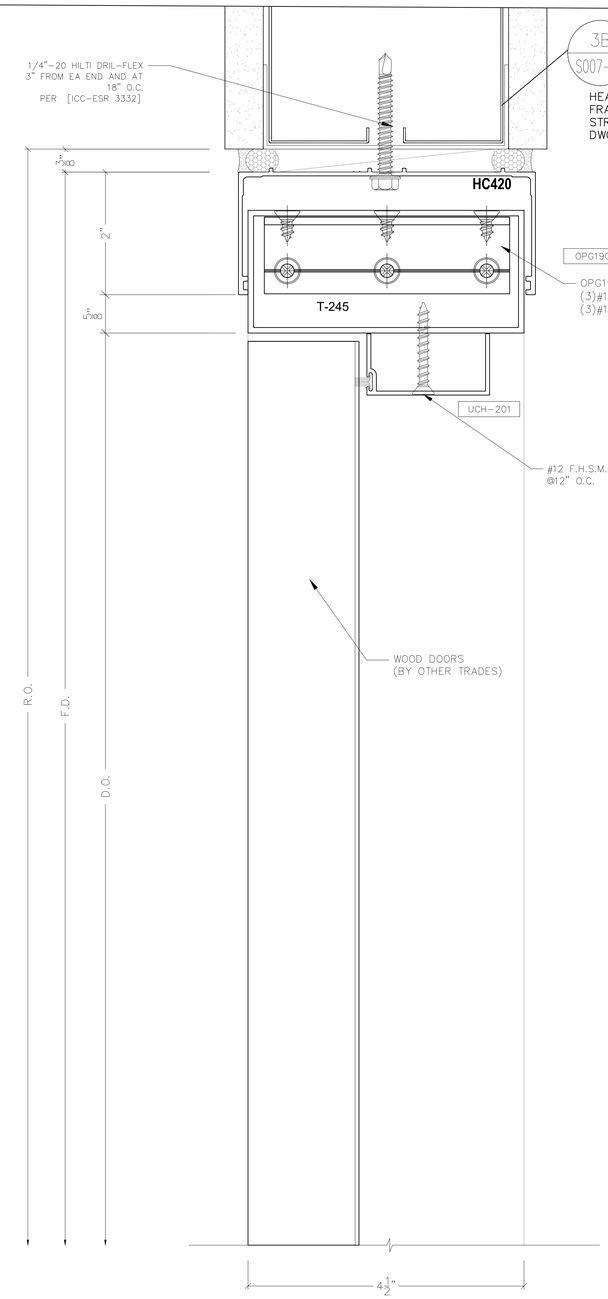

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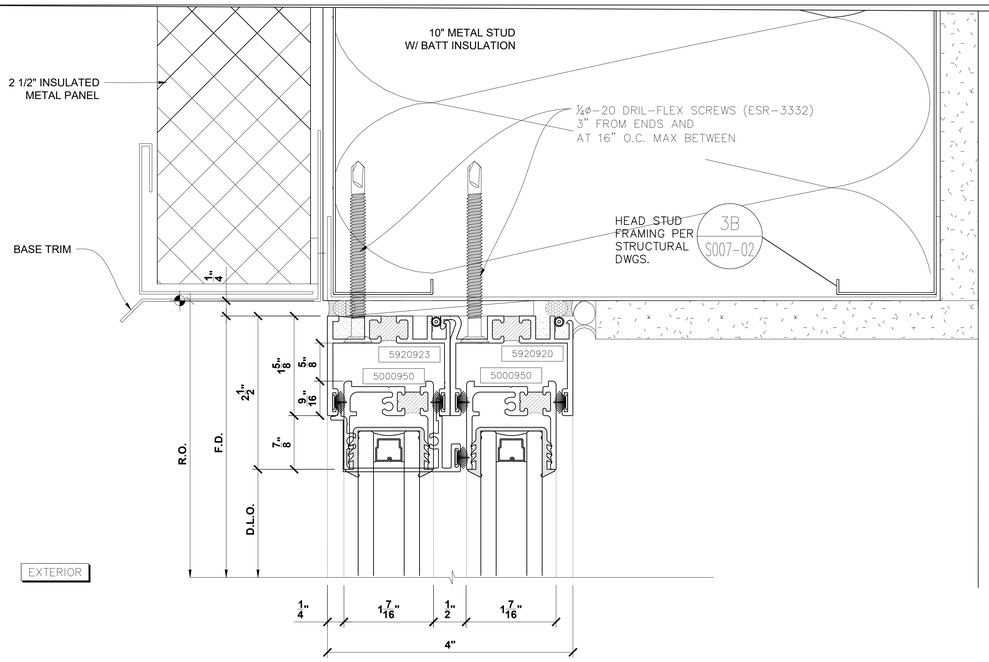

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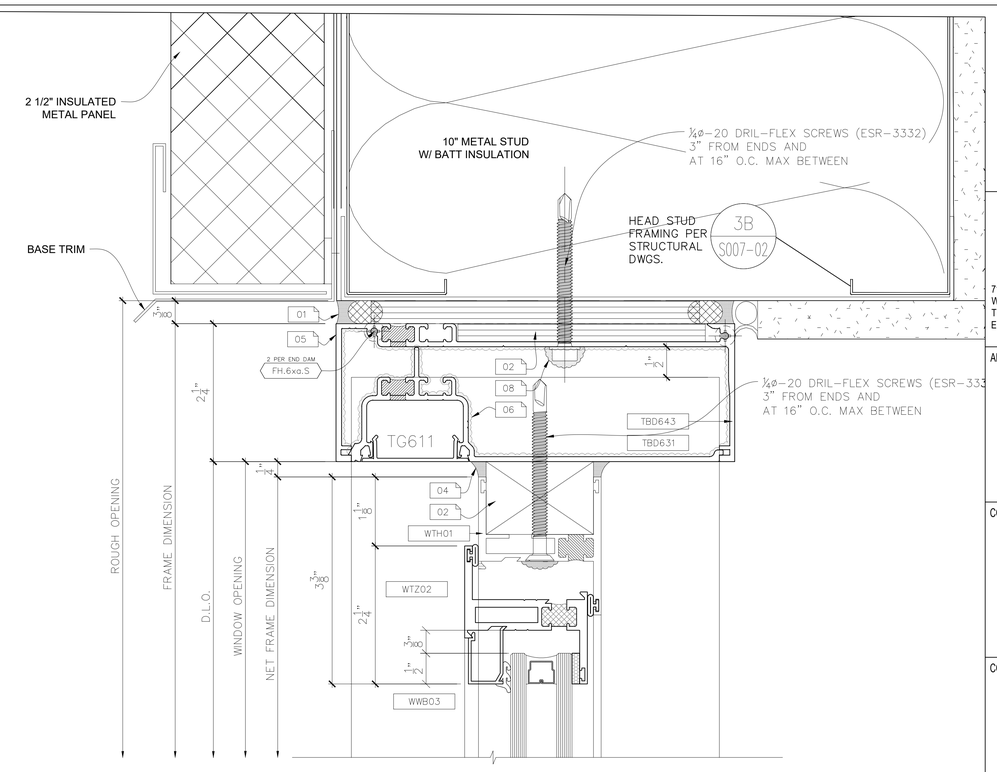
Arch Ref: 1 / A801



3 HEAD DETAIL
Arch Ref: 2 / A802

2 ULT5920 SILL DETAIL
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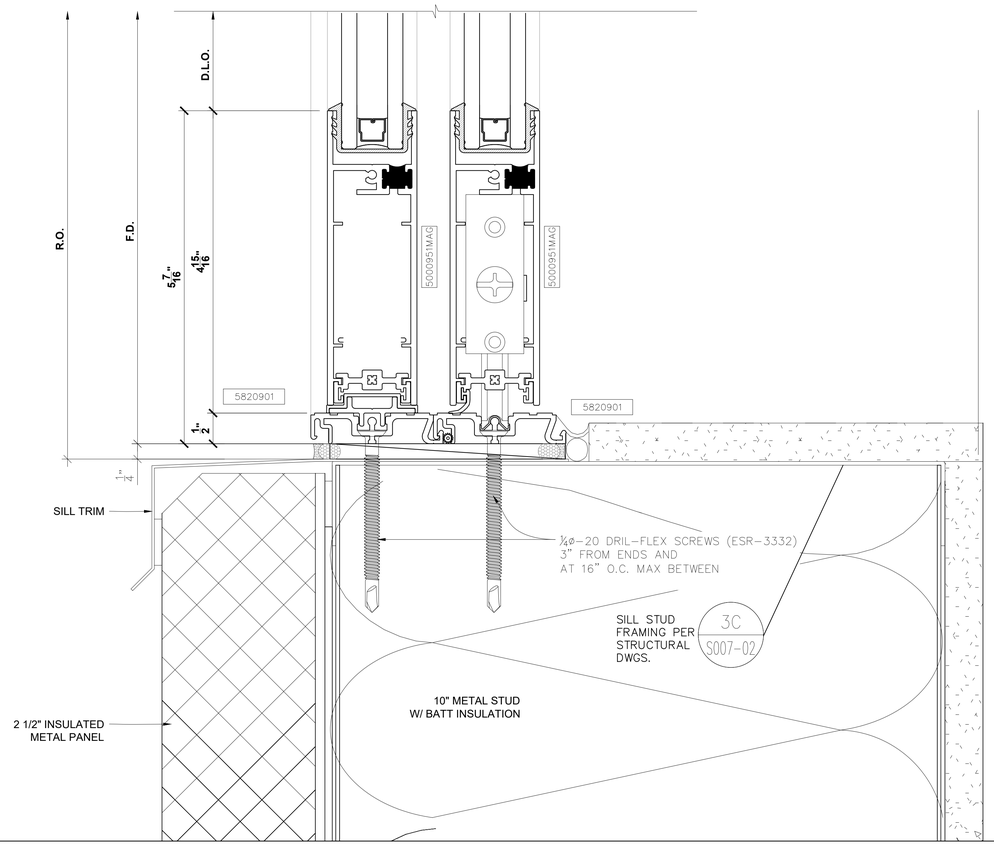

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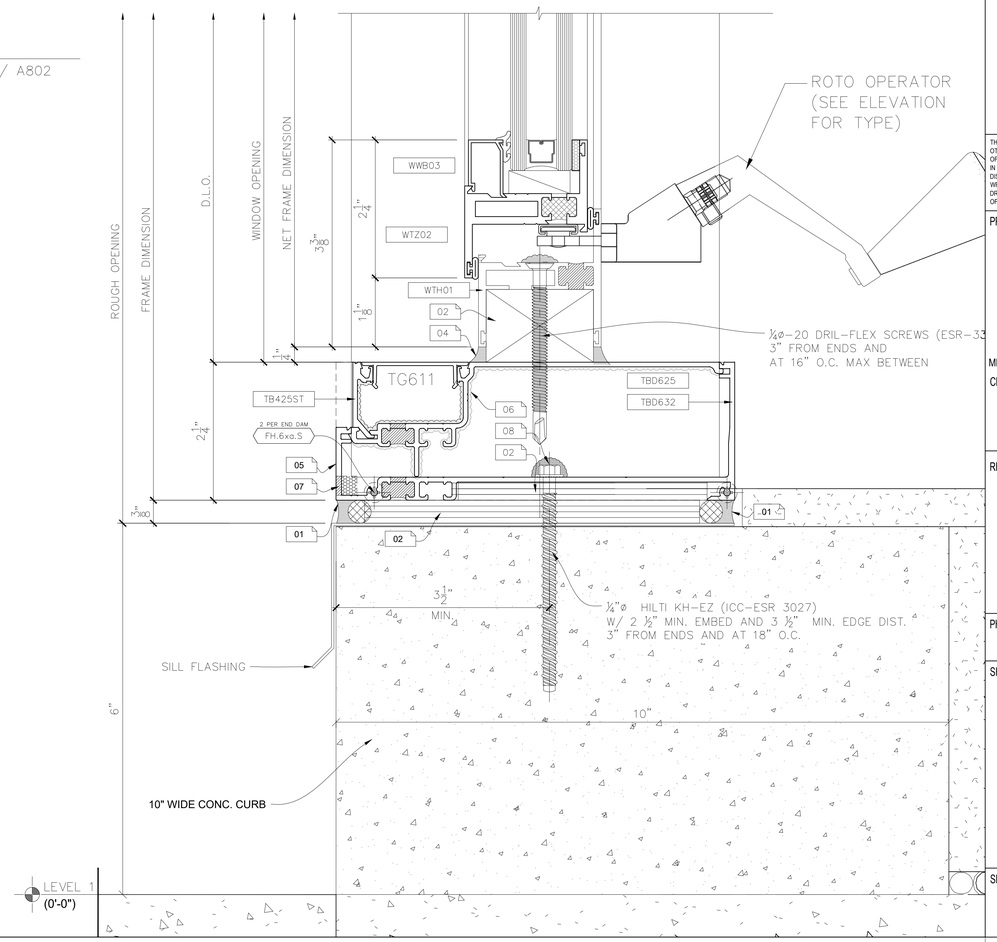

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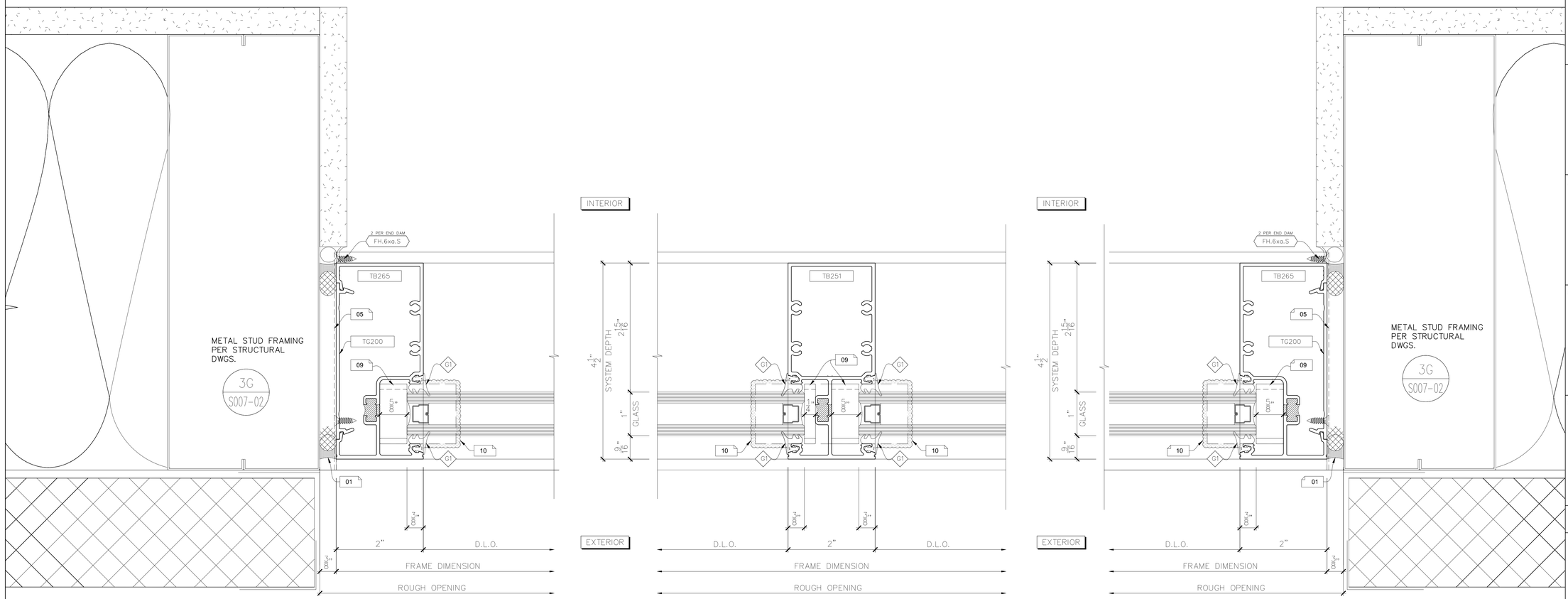

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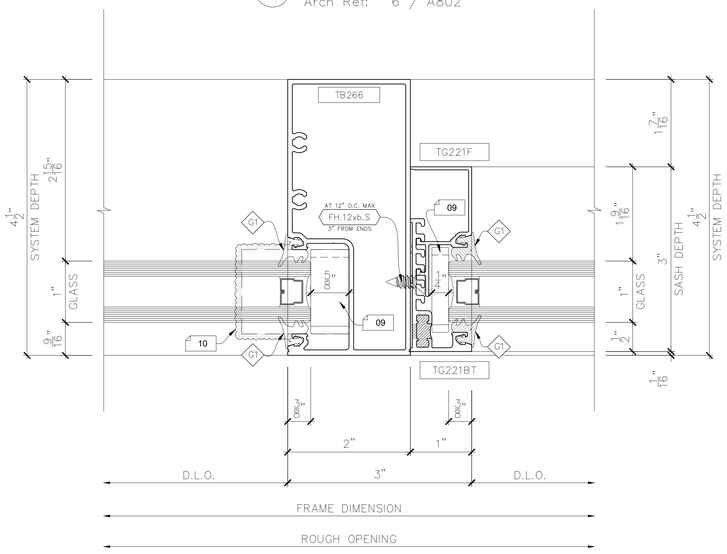
Arch Ref: 6 / A802



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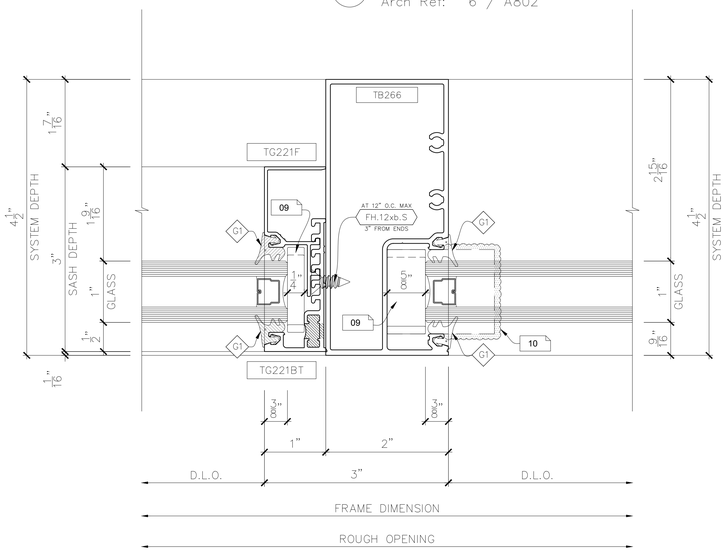

4 DOOR TRANSOM DETAIL
Arch Ref: None

5 DOOR TRANSOM DETAIL
Arch Ref: None

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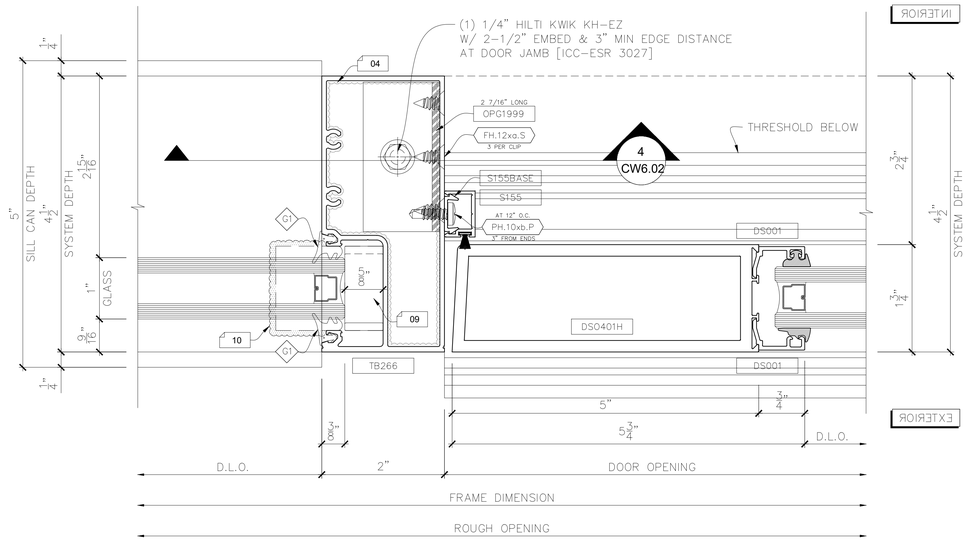

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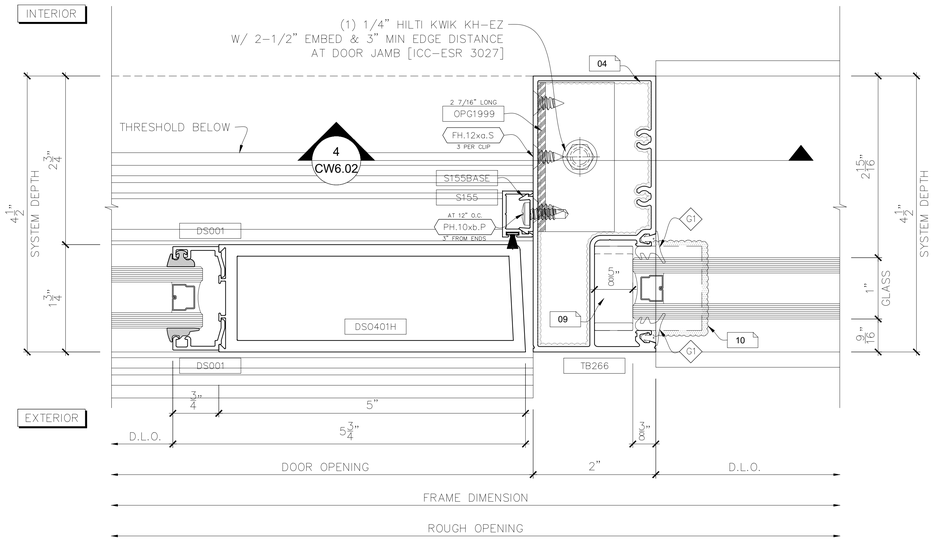

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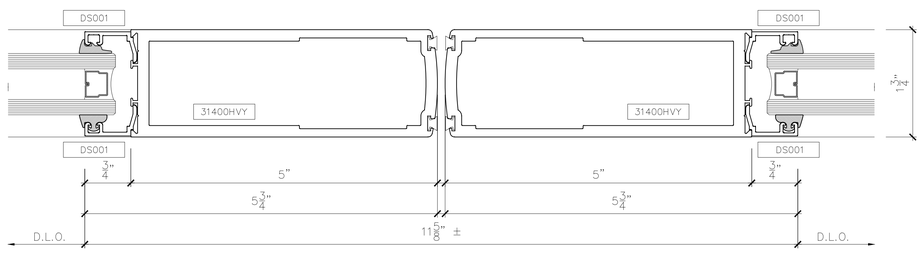

3 MEETING STILE DETAIL
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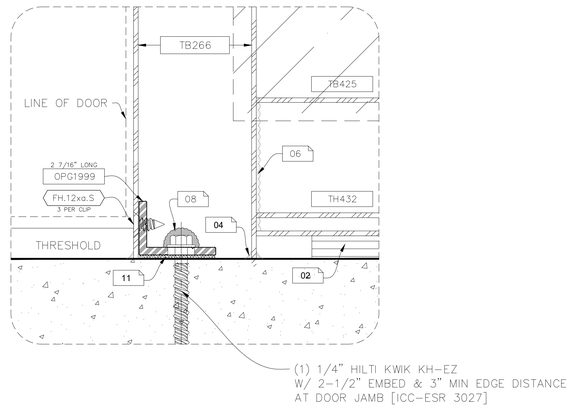

4 DOOR ANCHOR DETAIL
Arch Ref: None

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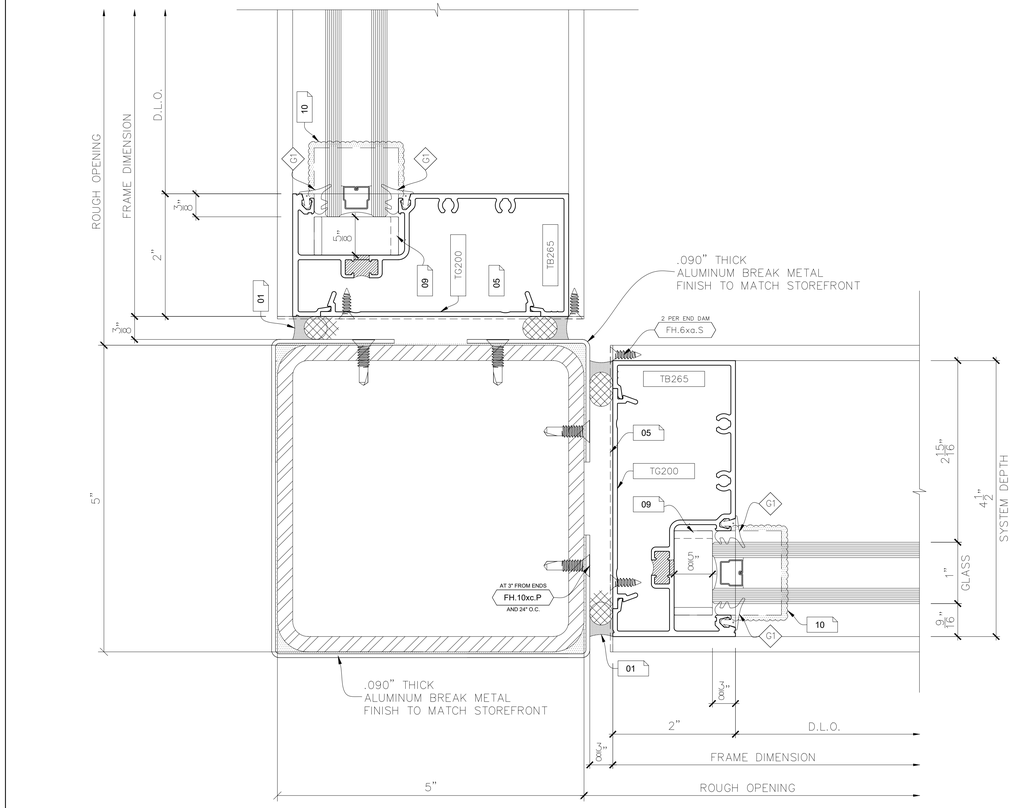

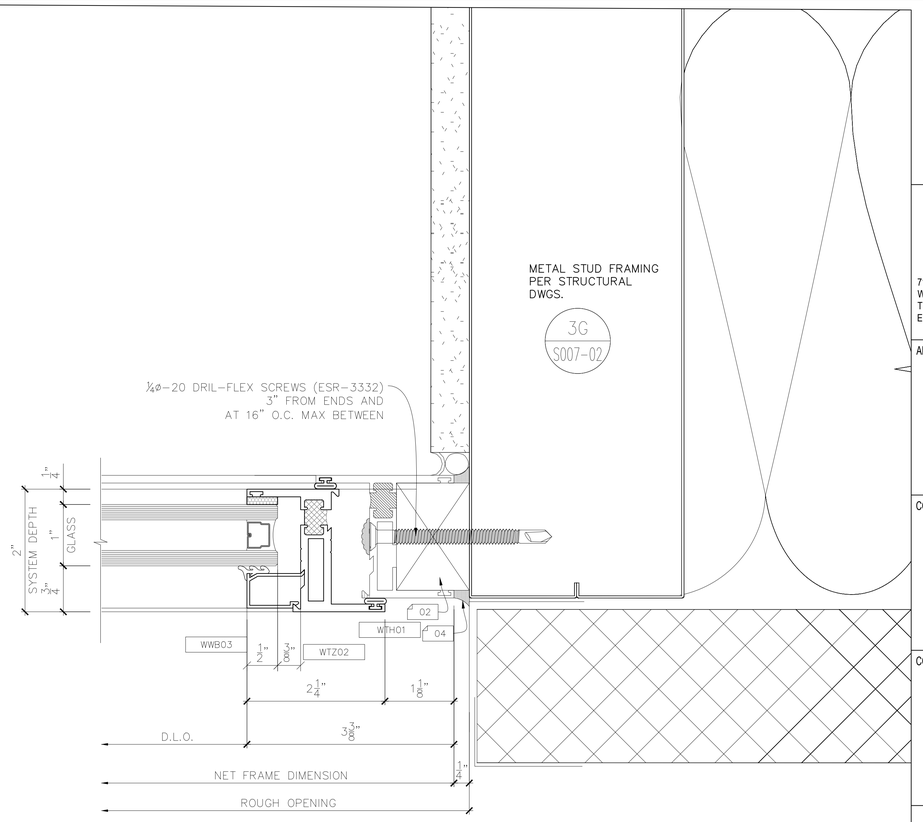

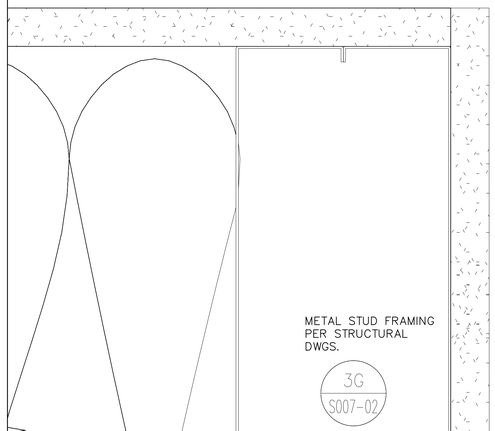

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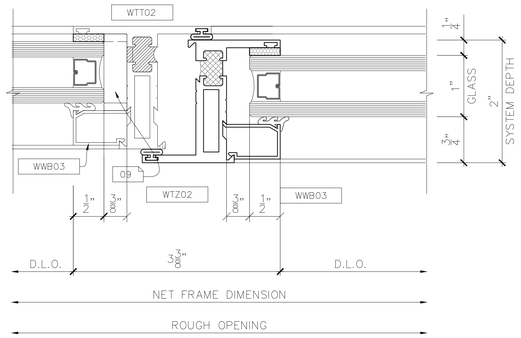

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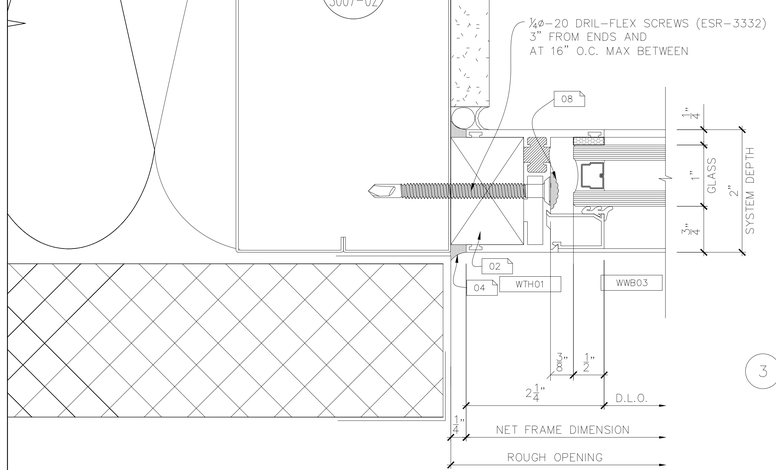
Arch Ref: 6 / A802



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5 WINDOW VERTICAL DETAIL
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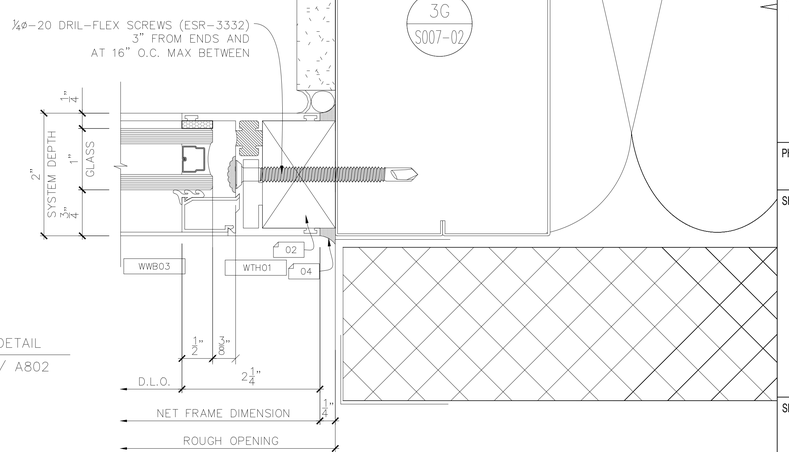

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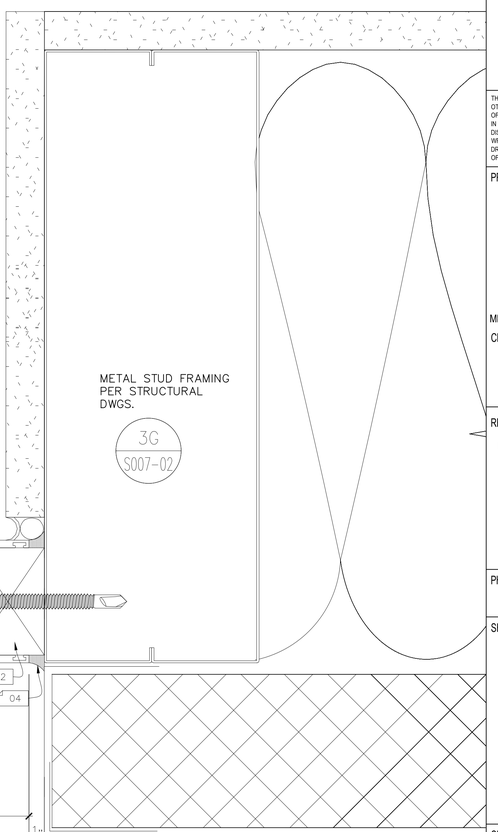

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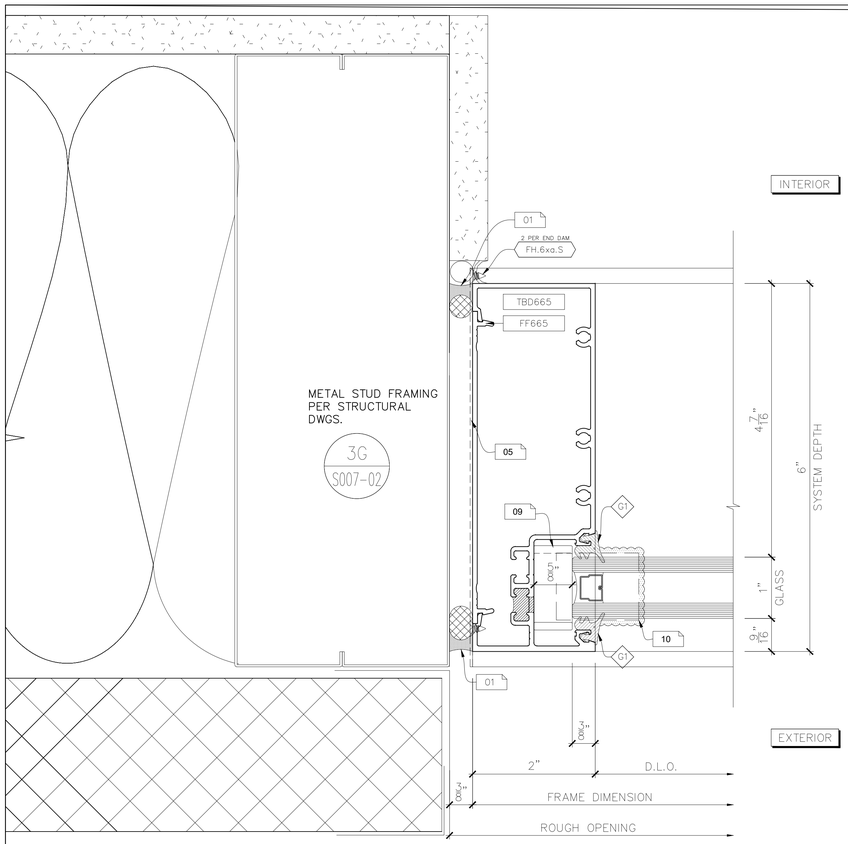

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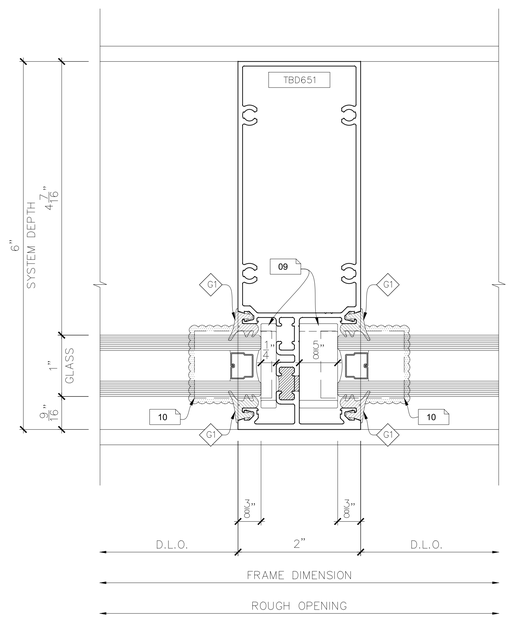

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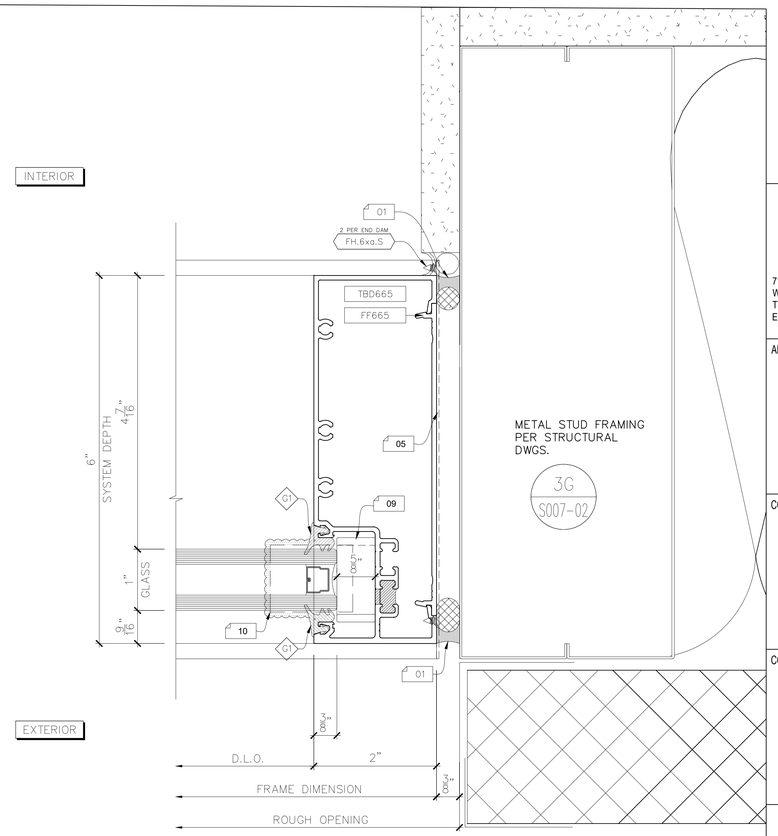

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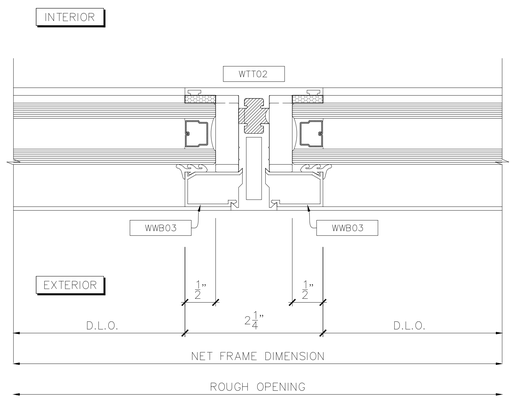

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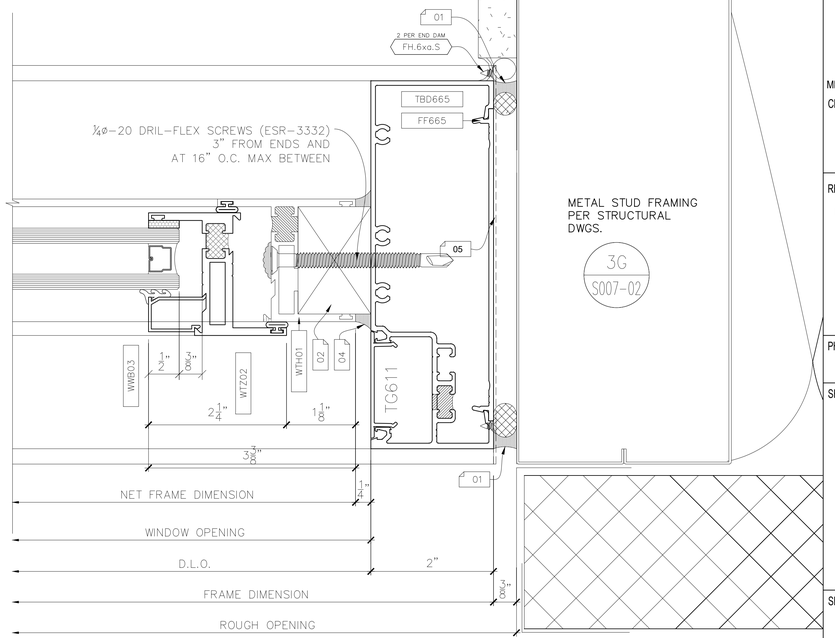

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.

MERCED CITY SCHOOL DISTRICT

CLIENT:

REVISIONS

REV	ISSUE	DATE	TO

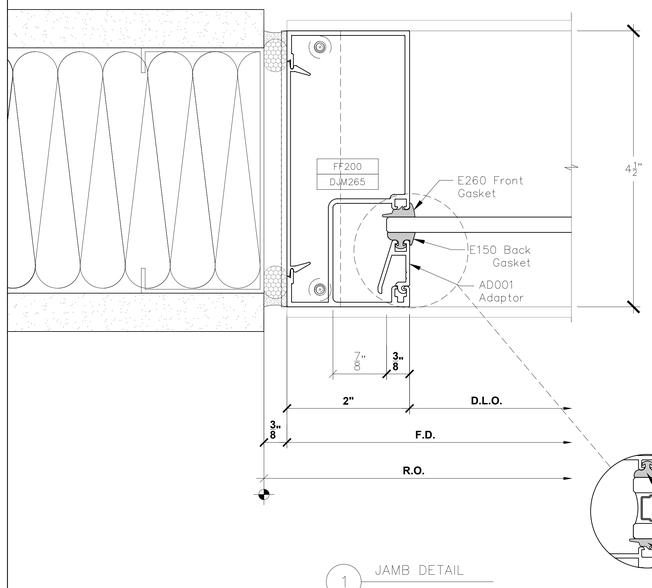
PHASE

SHEET TITLE

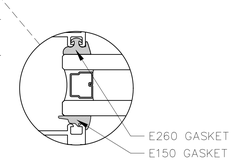
PLAN DETAILS

SHEET NUMBER:

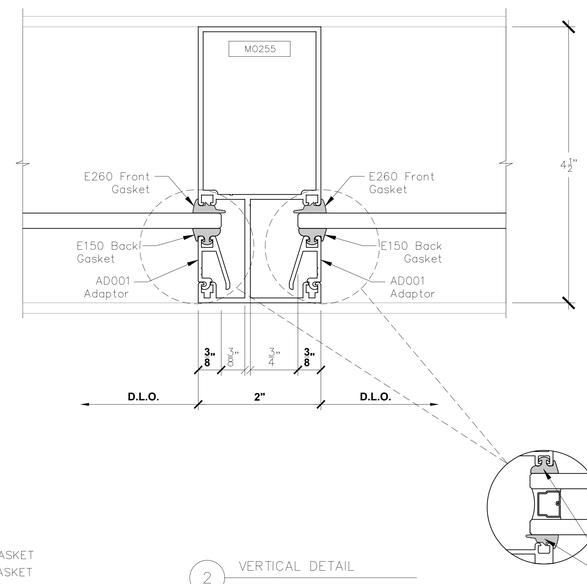
CW6.04-02



1 JAMB DETAIL
Arch Ref: None



1A JAMB DETAIL
Arch Ref: None



2 VERTICAL DETAIL
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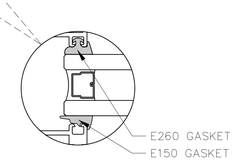
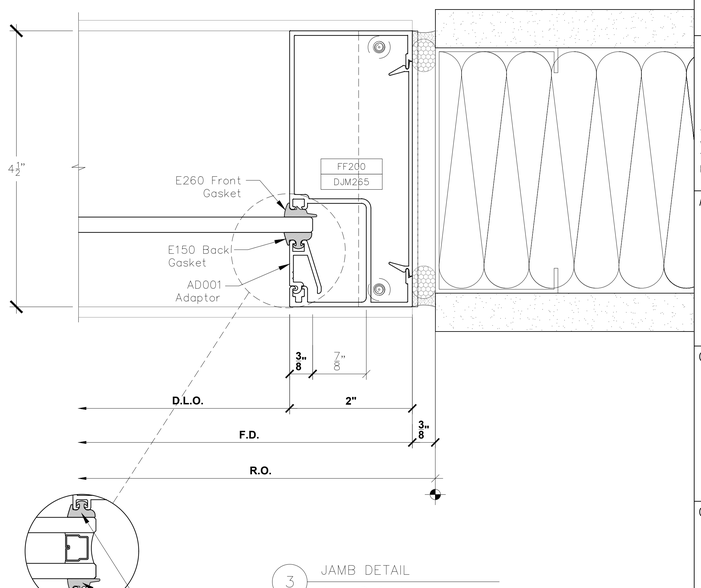
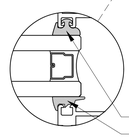


2A HORIZONTAL DETAIL
Arch Ref: None





3 JAMB DETAIL
Arch Ref: None

3A JAMB DETAIL
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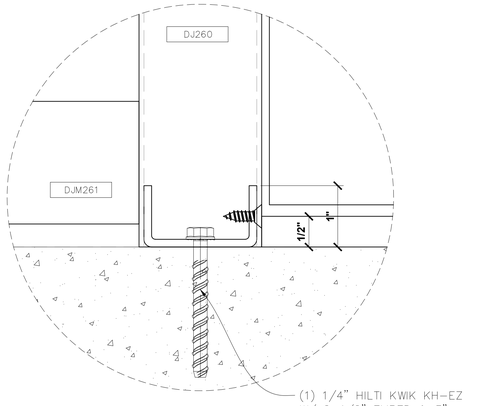

4 DOOR JAMB ANCHOR DETAIL
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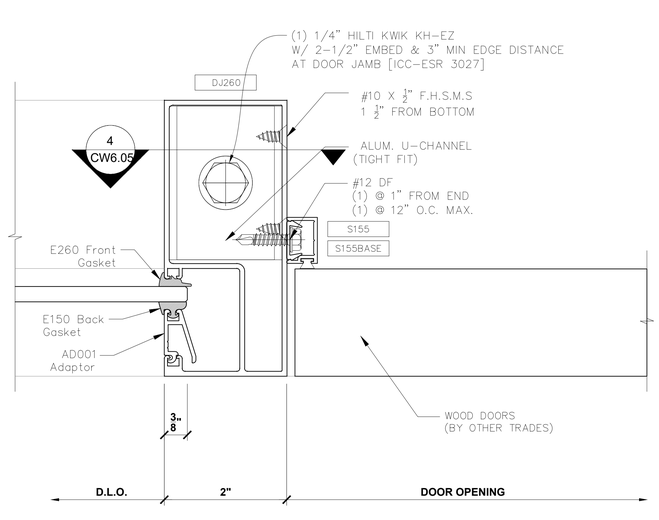

5 DOOR JAMB DETAIL
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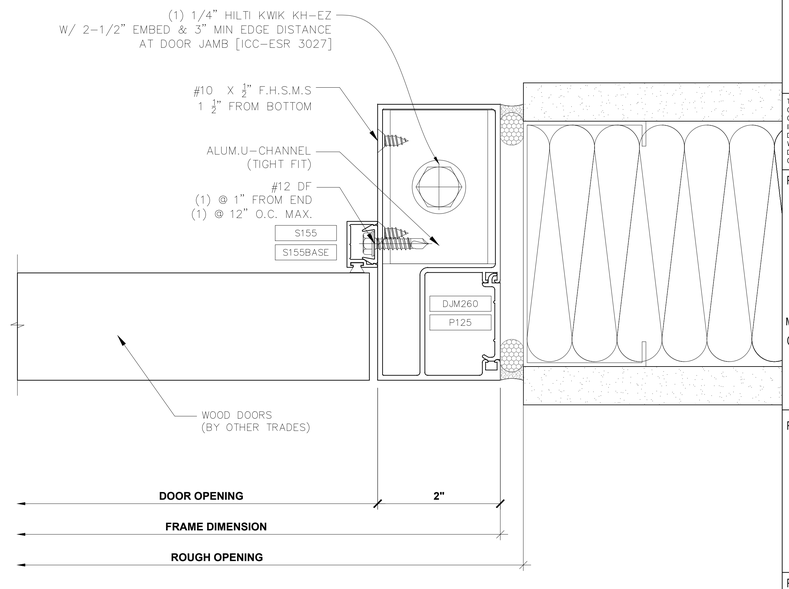

6 DOOR JAMB DETAIL
Arch Ref: None

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

CONSULTANT:

arcadia
ARCADIA, INC.
2301 E. Vernon Ave., Vernon, CA 90058
Tel: (323) 269-7300, Fax: (323) 261-9927

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
NATHAN M. MILLER
No. 56879
Exp. 09-30-26
CIVIL
STATE OF CALIFORNIA

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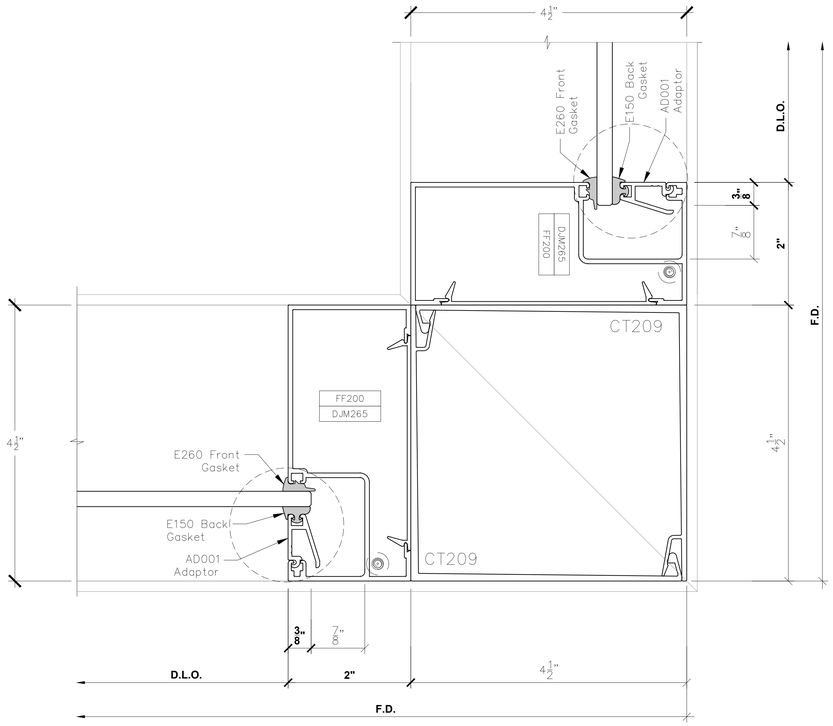
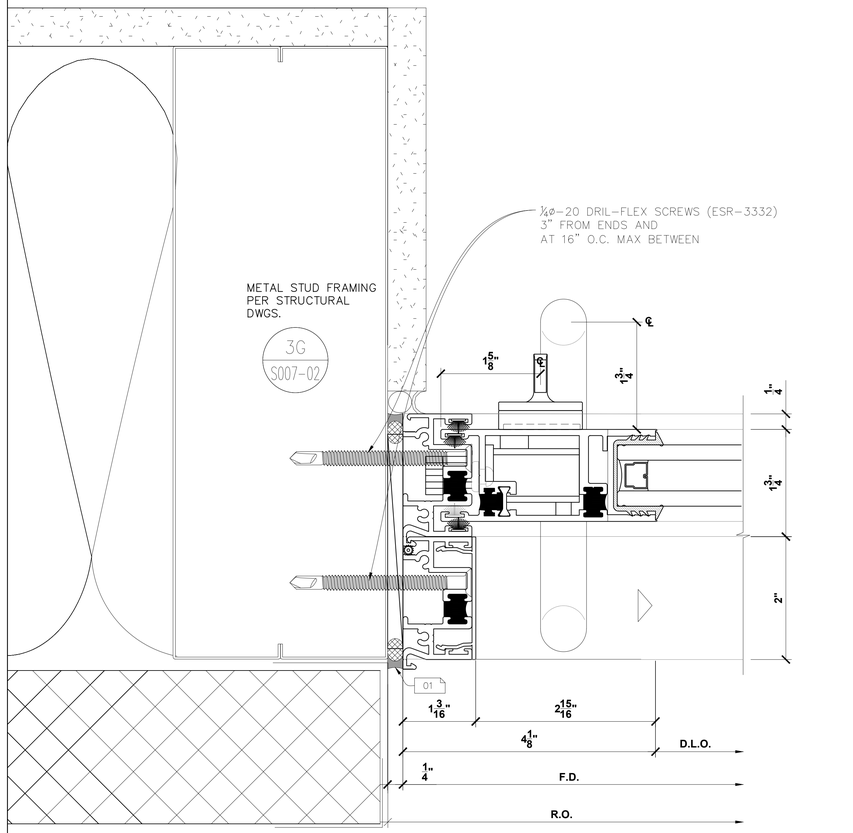


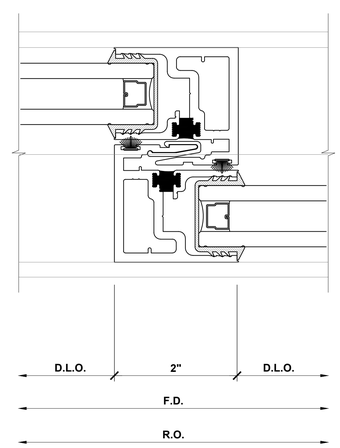
1 OUTSIDE CORNER DETAIL
Arch Ref: None



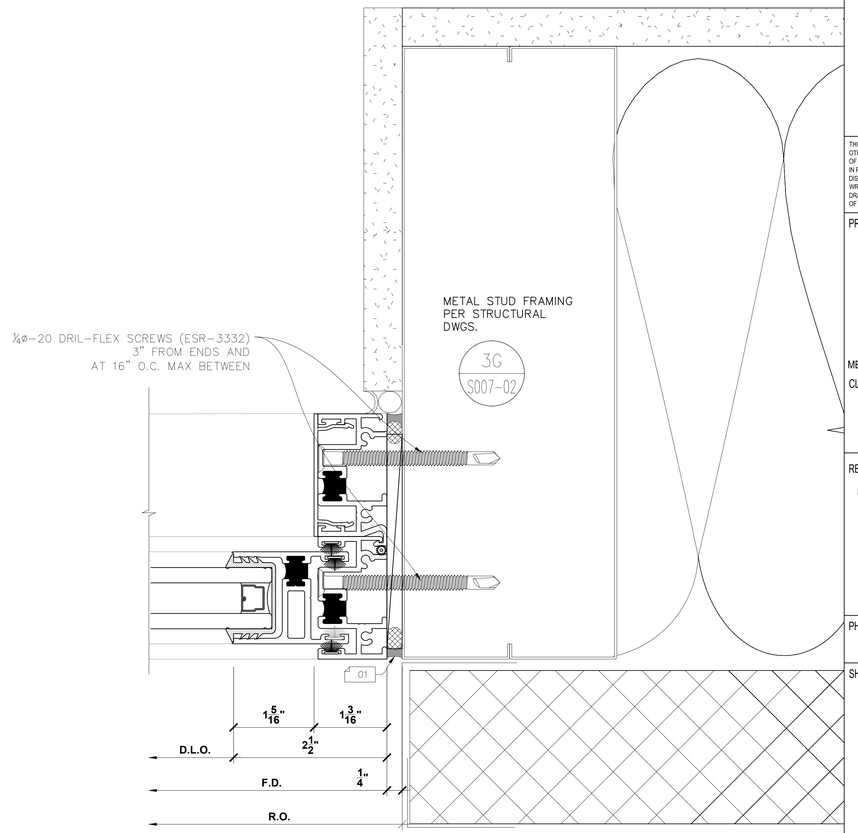
2 ULT5920 JAMB DETAIL
Arch Ref: 6 / A802

INTERIOR

EXTERIOR



3 ULT5920 INTERLOCKER DETAIL
Arch Ref: NONE



4 ULT5920 JAMB DETAIL
Arch Ref: 6 / A802

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PHASE

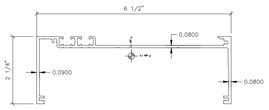
SHEET TITLE

PLAN DETAILS

SHEET NUMBER:

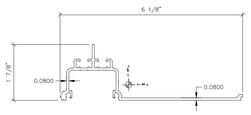
CW6.06-02

TBD643



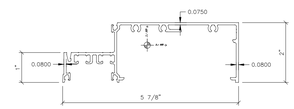
Area: 1.1189
Perimeter: 27.0852
Bounding box: X: −3.1660 — 3.3343
Y: −1.5970 — 0.6530
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4786
Y: 7.1985
Product of inertia: XY: 0.0590
Radii of gyration: X: 0.6540
Y: 2.5365
Principal moments and X−Y directions about centroid:
I: 0.4781 along [1.0000 −0.0088]
J: 7.1991 along [0.0088 1.0000]

TBD631



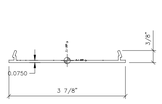
Area: 0.8235
Perimeter: 21.3479
Bounding box: X: −2.2958 — 3.8112
Y: −0.5151 — 1.3488
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2295
Y: 2.5916
Product of inertia: XY: 0.4669
Radii of gyration: X: 0.5279
Y: 1.7740
Principal moments and X−Y directions about centroid:
I: 0.1405 along [0.9823 −0.1871]
J: 2.6805 along [0.1871 0.9823]

TBD628



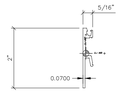
Area: 1.1773
Perimeter: 30.6447
Bounding box: X: −2.8282 — 3.0538
Y: −1.2438 — 0.7562
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4891
Y: 4.5494
Product of inertia: XY: −0.5767
Radii of gyration: X: 0.6446
Y: 1.9658
Principal moments and X−Y directions about centroid:
I: 0.4088 along [0.9904 0.1380]
J: 4.6297 along [−0.1380 0.9904]

TB605



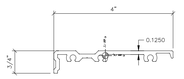
Area: 0.3449
Perimeter: 9.3914
Bounding box: X: −1.9497 — 1.9465
Y: −0.0671 — 0.3389
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0023
Y: 0.5331
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0808
Y: 1.2432
Principal moments and X−Y directions about centroid:
I: 0.0023 along [1.0000 0.0000]
J: 0.5331 along [0.0000 1.0000]

TBD428ST



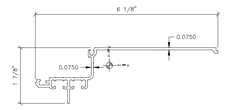
Area: 0.2311
Perimeter: 6.0116
Bounding box: X: −0.0986 — 0.2364
Y: −1.1542 — 0.8458
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0718
Y: 0.0021
Product of inertia: XY: −0.0223
Radii of gyration: X: 0.5573
Y: 0.0965
Principal moments and X−Y directions about centroid:
I: 0.0718 along [0.9995 −0.0329]
J: 0.0021 along [0.0329 0.9995]

TB627CLX



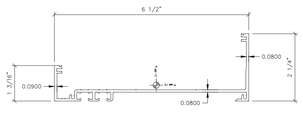
Area: 0.7554
Perimeter: 12.1447
Bounding box: X: −1.7231 — 2.2643
Y: −0.5898 — 0.1622
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0160
Y: 1.1004
Product of inertia: XY: −0.0546
Radii of gyration: X: 0.1456
Y: 1.2069
Principal moments and X−Y directions about centroid:
I: 0.0133 along [0.9987 0.0502]
J: 1.1031 along [−0.0502 0.9987]

TBD625



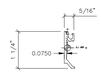
Area: 0.7192
Perimeter: 19.5508
Bounding box: X: −2.4756 — 3.6313
Y: −1.2671 — 0.5969
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2347
Y: 2.1465
Product of inertia: XY: −0.5691
Radii of gyration: X: 0.5713
Y: 1.7276
Principal moments and X−Y directions about centroid:
I: 0.0781 along [0.9642 0.2653]
J: 2.3031 along [−0.2653 0.9642]

TBD632



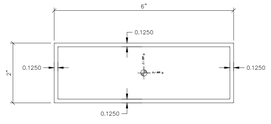
Area: 1.0029
Perimeter: 25.3994
Bounding box: X: −3.4089 — 3.0915
Y: −0.5284 — 1.7216
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2849
Y: 6.0007
Product of inertia: XY: −0.5092
Radii of gyration: X: 0.5330
Y: 2.4461
Principal moments and X−Y directions about centroid:
I: 0.2399 along [0.9961 0.0880]
J: 6.0457 along [−0.0880 0.9961]

TB425ST



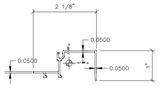
Area: 0.1473
Perimeter: 3.9345
Bounding box: X: −0.1080 — 0.2413
Y: −0.6865 — 0.5479
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0215
Y: 0.0013
Product of inertia: XY: 0.0004
Radii of gyration: X: 0.3822
Y: 0.0950
Principal moments and X−Y directions about centroid:
I: 0.0215 along [0.9998 0.0189]
J: 0.0013 along [−0.0189 0.9998]

T600



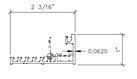
Area: 1.9375
Perimeter: 30.9485
Bounding box: X: −3.0000 — 3.0000
Y: −1.0000 — 1.0000
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.4319
Y: 8.2756
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.8597
Y: 2.0667
Principal moments and X−Y directions about centroid:
I: 1.4319 along [1.0000 0.0000]
J: 8.2756 along [0.0000 1.0000]

TG221F



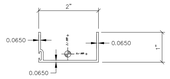
Area: 0.2231
Perimeter: 8.6492
Bounding box: X: −1.1962 — 0.9173
Y: −0.5806 — 0.4194
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0230
Y: 0.0918
Product of inertia: XY: −0.0179
Radii of gyration: X: 0.3208
Y: 0.6413
Principal moments and X−Y directions about centroid:
I: 0.0186 along [0.9715 0.2371]
J: 0.0961 along [−0.2371 0.9715]

TG221BT



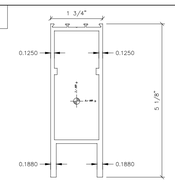
Area: 0.3559
Perimeter: 10.4654
Bounding box: X: −1.3407 — 0.8252
Y: −0.2676 — 0.7324
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0277
Y: 0.1754
Product of inertia: XY: −0.0391
Radii of gyration: X: 0.2789
Y: 0.7020
Principal moments and X−Y directions about centroid:
I: 0.0180 along [0.9705 0.2410]
J: 0.1851 along [−0.2410 0.9705]

UCH201



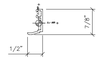
Area: 0.2607
Perimeter: 8.2293
Bounding box: X: −0.9734 — 1.0266
Y: −0.2745 — 0.7255
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0248
Y: 0.1620
Product of inertia: XY: 0.0002
Radii of gyration: X: 0.3081
Y: 0.7883
Principal moments and X−Y directions about centroid:
I: 0.0248 along [1.0000 −0.0012]
J: 0.1620 along [0.0012 1.0000]

31430HVY



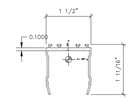
Area: 1.8421
Perimeter: 27.7669
Bounding box: X: −0.8700 — 0.8700
Y: −2.5410 — 2.5840
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 4.8807
Y: 0.9943
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.6278
Y: 0.7347
Principal moments and X−Y directions about centroid:
I: 0.9943 along [0.0000 −1.0000]
J: 4.8807 along [1.0000 0.0000]

DS001



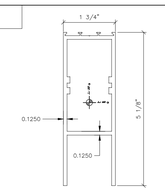
Area: 0.0923
Perimeter: 3.2699
Bounding box: X: −0.3766 — 0.1284
Y: −0.3842 — 0.4639
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0074
Y: 0.0015
Product of inertia: XY: 0.0017
Radii of gyration: X: 0.2838
Y: 0.1285
Principal moments and X−Y directions about centroid:
I: 0.0011 along [0.2525 0.9676]
J: 0.0079 along [−0.9676 0.2525]

DRB811



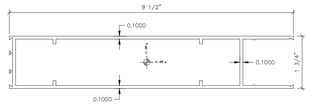
Area: 0.3345
Perimeter: 10.6065
Bounding box: X: −0.7500 — 0.7500
Y: −1.1711 — 0.5039
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0815
Y: 0.1092
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.4937
Y: 0.5713
Principal moments and X−Y directions about centroid:
I: 0.0815 along [1.0000 0.0000]
J: 0.1092 along [0.0000 1.0000]

31432



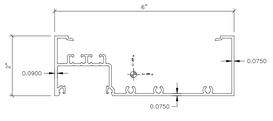
Area: 1.7408
Perimeter: 28.1469
Bounding box: X: −0.8700 — 0.8700
Y: −2.7773 — 2.3477
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 4.0045
Y: 0.9418
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.5167
Y: 0.7355
Principal moments and X−Y directions about centroid:
I: 0.9418 along [0.0000 1.0000]
J: 4.0045 along [1.0000 0.0000]

DRB950



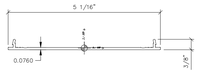
Area: 2.2873
Perimeter: 46.6418
Bounding box: X: −4.5985 — 4.9015
Y: −0.8750 — 0.8750
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.3880
Y: 19.5967
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.7790
Y: 2.9270
Principal moments and X−Y directions about centroid:
I: 1.3880 along [1.0000 0.0000]
J: 19.5967 along [0.0000 1.0000]

TBD665



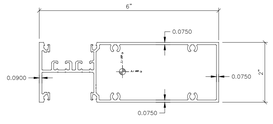
Area: 1.2016
Perimeter: 31.4211
Bounding box: X: −2.6398 — 3.3602
Y: −0.7077 — 1.2923
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.5015
Y: 5.6258
Product of inertia: XY: 0.3679
Radii of gyration: X: 0.6460
Y: 2.1637
Principal moments and X−Y directions about centroid:
I: 0.4752 along [0.9975 −0.0713]
J: 5.6520 along [0.0713 0.9975]

FF665



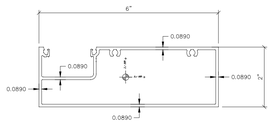
Area: 0.4237
Perimeter: 11.4422
Bounding box: X: −2.5456 — 2.5455
Y: −0.0537 — 0.2944
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0014
Y: 1.0448
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0582
Y: 1.5703
Principal moments and X−Y directions about centroid:
I: 0.0014 along [1.0000 0.0000]
J: 1.0448 along [0.0000 1.0000]

TBD651



Area: 1.5904
Perimeter: 41.2076
Bounding box: X: −2.7824 — 3.2176
Y: −1.0216 — 0.9784
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.8963
Y: 6.4240
Product of inertia: XY: 0.0583
Radii of gyration: X: 0.7507
Y: 2.0098
Principal moments and X−Y directions about centroid:
I: 0.8956 along [0.9999 −0.0106]
J: 6.4246 along [0.0106 0.9999]

TB666



Area: 1.6177
Perimeter: 36.3206
Bounding box: X: −2.8985 — 3.1015
Y: −0.9964 — 1.0036
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.0366
Y: 6.7028
Product of inertia: XY: −0.2201
Radii of gyration: X: 0.8005
Y: 2.0355
Principal moments and X−Y directions about centroid:
I: 1.0281 along [0.9992 0.0388]
J: 6.7113 along [−0.0388 0.9992]

TG611

Area: 0.1363
Perimeter: 5.0866
Bounding box: X: −0.8710 — 0.8710
Y: −0.0922 — 0.3393
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0018
Y: 0.0414
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.1154
Y: 0.5509
Principal moments and X−Y directions about centroid:
I: 0.0018 along [1.0000 0.0000]
J: 0.0414 along [0.0000 1.0000]

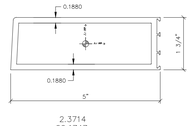
S155BASE

Area: 0.0504
Perimeter: 1.9889
Bounding box: X: −0.3255 — 0.3255
Y: −0.0702 — 0.1597
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0002
Y: 0.0023
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0605
Y: 0.2140
Principal moments and X−Y directions about centroid:
I: 0.0002 along [1.0000 0.0000]
J: 0.0023 along [0.0000 1.0000]

S155

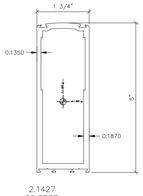
Area: 0.0942
Perimeter: 3.6820
Bounding box: X: −0.3851 — 0.3649
Y: −0.3400 — 0.1601
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0022
Y: 0.0075
Product of inertia: XY: 0.0001
Radii of gyration: X: 0.1526
Y: 0.2830
Principal moments and X−Y directions about centroid:
I: 0.0022 along [0.9997 −0.0225]
J: 0.0075 along [0.0225 0.9997]

DS0401H



Area: 2.3714
Perimeter: 26.1747
Bounding box: X: −2.5055 — 2.4945
Y: −0.8693 — 0.8807
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.2113
Y: 6.5689
Product of inertia: XY: −0.0353
Radii of gyration: X: 0.7147
Y: 1.6643
Principal moments and X−Y directions about centroid:
I: 1.2111 along [1.0000 0.0066]
J: 6.5691 along [−0.0066 1.0000]

31400HVY



Area: 2.1427
Perimeter: 26.9807
Bounding box: X: −0.8750 — 0.8750
Y: −2.3619 — 2.6381
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 6.0389
Y: 1.0945
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.6788
Y: 0.7147
Principal moments and X−Y directions about centroid:
I: 1.0945 along [0.0000 1.0000]
J: 6.0389 along [−1.0000 0.0000]

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
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ARCHITECT'S SEAL:

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Tel: (323) 269-7300, Fax: (323) 261-9927

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
NATHAN M. MILLER
No. 56879
Exp. 09-30-26
CIVIL
STATE OF CALIFORNIA

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.

MERCED CITY SCHOOL DISTRICT

CLIENT:

REVISIONS

REV	ISSUE	DATE	TO

PHASE

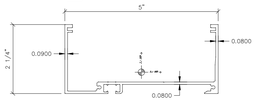
SHEET TITLE

AFG-601T
SECTION
PROPERTIES

SHEET NUMBER:

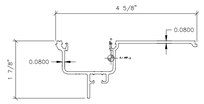
CW7.01-02

TH443



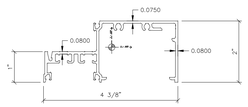
Area: 0.9785
Perimeter: 22.7905
Bounding box: X: −2.4969 −− 2.5031
Y: −0.6943 −− 1.5557
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4667
Y: 3.8148
Product of inertia: XY: 0.0218
Radii of gyration: X: 0.6907
Y: 1.9745
Principal moments and X−Y directions about centroid:
I: 0.4666 along [1.0000 0.0065]
J: 3.8150 along [−0.0065 1.0000]

TB431



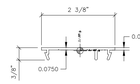
Area: 0.6704
Perimeter: 17.0870
Bounding box: X: −1.8070 −− 2.7996
Y: −1.3042 −− 0.5658
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1853
Y: 1.1060
Product of inertia: XY: 0.2331
Radii of gyration: X: 0.5258
Y: 1.2845
Principal moments and X−Y directions about centroid:
I: 0.1297 along [0.9727 0.2322]
J: 1.1617 along [−0.2322 0.9727]

TBD428



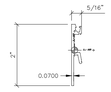
Area: 1.0229
Perimeter: 26.4449
Bounding box: X: −2.2252 −− 2.1568
Y: −1.1432 −− 0.8568
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4078
Y: 2.1589
Product of inertia: XY: −0.3686
Radii of gyration: X: 0.6314
Y: 1.4527
Principal moments and X−Y directions about centroid:
I: 0.3334 along [0.9802 0.1979]
J: 2.2333 along [−0.1979 0.9802]

TB205



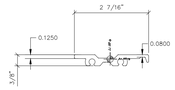
Area: 0.2606
Perimeter: 7.0412
Bounding box: X: −1.2587 −− 1.1375
Y: −0.3089 −− 0.0971
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0028
Y: 0.1493
Product of inertia: XY: −0.0021
Radii of gyration: X: 0.1044
Y: 0.7571
Principal moments and X−Y directions about centroid:
I: 0.0028 along [0.9999 −0.0142]
J: 0.1494 along [0.0142 0.9999]

TBD428ST



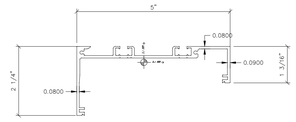
Area: 0.2311
Perimeter: 6.0116
Bounding box: X: −0.0986 −− 0.2364
Y: −1.1542 −− 0.8458
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0718
Y: 0.0021
Product of inertia: XY: −0.0023
Radii of gyration: X: 0.5573
Y: 0.0965
Principal moments and X−Y directions about centroid:
I: 0.0718 along [0.9995 −0.0329]
J: 0.0021 along [0.0329 0.9995]

TB427CL



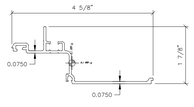
Area: 0.4420
Perimeter: 6.8426
Bounding box: X: −1.1639 −− 1.2572
Y: −0.2145 −− 0.1443
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0042
Y: 0.1849
Product of inertia: XY: 0.0033
Radii of gyration: X: 0.0969
Y: 0.6467
Principal moments and X−Y directions about centroid:
I: 0.0041 along [0.9998 0.0180]
J: 0.1849 along [−0.0180 0.9998]

TH432



Area: 0.9425
Perimeter: 22.6132
Bounding box: X: −2.1894 −− 2.8107
Y: −1.7303 −− 0.5197
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2954
Y: 3.1936
Product of inertia: XY: 0.3384
Radii of gyration: X: 0.5598
Y: 1.8407
Principal moments and X−Y directions about centroid:
I: 0.2564 along [0.9934 0.1145]
J: 3.2326 along [−0.1145 0.9934]

TB425

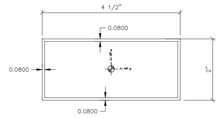


Area: 0.5790
Perimeter: 15.7163
Bounding box: X: −1.9637 −− 2.6430
Y: −0.6747 −− 1.1893
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1844
Y: 0.8851
Product of inertia: XY: −0.3306
Radii of gyration: X: 0.5644
Y: 1.2364
Principal moments and X−Y directions about centroid:
I: 0.0531 along [0.9293 −0.3693]
J: 1.0165 along [0.3693 0.9293]

TB425ST

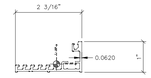
Area: 0.1473
Perimeter: 3.9345
Bounding box: X: −0.1081 −− 0.2412
Y: −0.5479 −− 0.6866
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0215
Y: 0.0013
Product of inertia: XY: 0.0004
Radii of gyration: X: 0.3822
Y: 0.0950
Principal moments and X−Y directions about centroid:
I: 0.0013 along [0.0189 0.9998]
J: 0.0215 along [−0.9998 0.0189]

T245



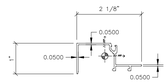
Area: 1.0144
Perimeter: 25.3085
Bounding box: X: −2.2500 −− 2.2500
Y: −1.0000 −− 1.0000
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.7470
Y: 2.6530
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.8581
Y: 1.6172
Principal moments and X−Y directions about centroid:
I: 0.7470 along [1.0000 0.0000]
J: 2.6530 along [0.0000 1.0000]

TG221BT



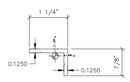
Area: 0.3559
Perimeter: 10.4654
Bounding box: X: −1.3406 −− 0.8253
Y: −0.2676 −− 0.7324
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0277
Y: 0.1754
Product of inertia: XY: 0.0391
Radii of gyration: X: 0.2789
Y: 0.7020
Principal moments and X−Y directions about centroid:
I: 0.0180 along [0.9705 0.2410]
J: 0.1851 along [−0.2410 0.9705]

TG221F



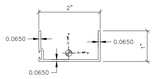
Area: 0.2231
Perimeter: 8.6494
Bounding box: X: −0.9173 −− 1.1962
Y: −0.5805 −− 0.4195
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0230
Y: 0.0918
Product of inertia: XY: −0.0179
Radii of gyration: X: 0.3208
Y: 0.6413
Principal moments and X−Y directions about centroid:
I: 0.0186 along [0.9715 −0.2371]
J: 0.0961 along [0.2371 0.9715]

OPG1999



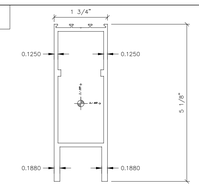
Area: 0.2486
Perimeter: 4.2738
Bounding box: X: −0.8363 −− 0.4137
Y: −0.6486 −− 0.2264
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0157
Y: 0.0388
Product of inertia: XY: −0.0143
Radii of gyration: X: 0.2514
Y: 0.3950
Principal moments and X−Y directions about centroid:
I: 0.0089 along [0.9019 −0.4319]
J: 0.0457 along [0.4319 0.9019]

UCH201



Area: 0.2607
Perimeter: 8.2293
Bounding box: X: −0.9734 −− 1.0266
Y: −0.2745 −− 0.7255
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0248
Y: 0.1620
Product of inertia: XY: 0.0002
Radii of gyration: X: 0.3081
Y: 0.7883
Principal moments and X−Y directions about centroid:
I: 0.0248 along [1.0000 −0.0012]
J: 0.1620 along [0.0012 1.0000]

31430HVY

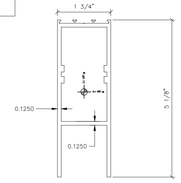


Area: 1.8421
Perimeter: 27.7669
Bounding box: X: −0.8700 −− 0.8700
Y: −2.5410 −− 2.5840
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 4.8807
Y: 0.9943
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.6278
Y: 0.7347
Principal moments and X−Y directions about centroid:
I: 0.9943 along [0.0000 −1.0000]
J: 4.8807 along [1.0000 0.0000]

DS001

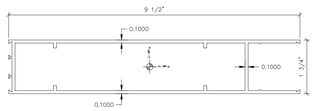
Area: 0.0923
Perimeter: 3.2699
Bounding box: X: −0.3766 −− 0.1284
Y: −0.3842 −− 0.4639
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0074
Y: 0.0015
Product of inertia: XY: 0.0017
Radii of gyration: X: 0.2838
Y: 0.1285
Principal moments and X−Y directions about centroid:
I: 0.0011 along [0.2525 0.9676]
J: 0.0079 along [−0.9676 0.2525]

31432



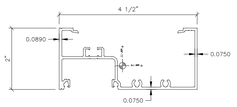
Area: 1.7408
Perimeter: 28.1469
Bounding box: X: −0.8700 −− 0.8700
Y: −2.7773 −− 2.3477
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 4.0045
Y: 0.9418
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.5167
Y: 0.7355
Principal moments and X−Y directions about centroid:
I: 4.0045 along [1.0000 0.0000]
J: 0.9418 along [0.0000 1.0000]

DRB950



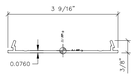
Area: 2.2873
Perimeter: 46.6418
Bounding box: X: −4.5985 −− 4.9015
Y: −0.8750 −− 0.8750
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.3880
Y: 19.5967
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.7790
Y: 2.9270
Principal moments and X−Y directions about centroid:
I: 1.3880 along [1.0000 0.0000]
J: 19.5967 along [0.0000 1.0000]

TB265



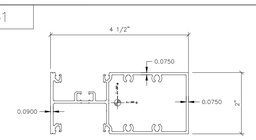
Area: 0.9934
Perimeter: 26.2281
Bounding box: X: −2.0660 −− 2.4340
Y: −0.7722 −− 1.2278
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4186
Y: 2.7063
Product of inertia: XY: −0.1837
Radii of gyration: X: 0.6491
Y: 1.6505
Principal moments and X−Y directions about centroid:
I: 0.4039 along [0.9968 −0.0795]
J: 2.7209 along [0.0795 0.9968]

TG200



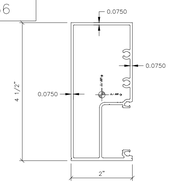
Area: 0.3231
Perimeter: 8.7318
Bounding box: X: −1.7950 −− 1.7950
Y: −0.0696 −− 0.3365
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0022
Y: 0.4260
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0831
Y: 1.1483
Principal moments and X−Y directions about centroid:
I: 0.0022 along [1.0000 0.0000]
J: 0.4260 along [0.0000 1.0000]

TB251



Area: 1.3063
Perimeter: 34.0264
Bounding box: X: −2.1861 −− 2.3139
Y: −1.0147 −− 0.9853
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.6813
Y: 2.9514
Product of inertia: XY: −0.0213
Radii of gyration: X: 0.7222
Y: 1.5031
Principal moments and X−Y directions about centroid:
I: 0.6811 along [1.0000 −0.0094]
J: 2.9516 along [0.0094 1.0000]

TB266

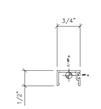


Area: 1.1775
Perimeter: 30.5811
Bounding box: X: −1.0047 −− 0.9953
Y: −2.1494 −− 2.3507
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 2.8568
Y: 0.6938
Product of inertia: XY: 0.1277
Radii of gyration: X: 1.5576
Y: 0.7676
Principal moments and X−Y directions about centroid:
I: 0.6863 along [0.0587 0.9983]
J: 2.8644 along [−0.9983 0.0587]

S155BASE

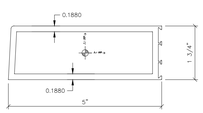
Area: 0.0504
Perimeter: 1.9889
Bounding box: X: −0.3255 −− 0.3255
Y: −0.0702 −− 0.1597
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0002
Y: 0.0023
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0605
Y: 0.2140
Principal moments and X−Y directions about centroid:
I: 0.0002 along [1.0000 0.0000]
J: 0.0023 along [0.0000 1.0000]

S155



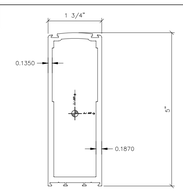
Area: 0.0942
Perimeter: 3.6820
Bounding box: X: −0.3851 −− 0.3649
Y: −0.3400 −− 0.1601
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0022
Y: 0.0075
Product of inertia: XY: 0.0001
Radii of gyration: X: 0.1526
Y: 0.2830
Principal moments and X−Y directions about centroid:
I: 0.0022 along [0.9997 −0.0225]
J: 0.0075 along [0.0225 0.9997]

DS0401H



Area: 2.3714
Perimeter: 26.1747
Bounding box: X: −2.5055 −− 2.4945
Y: −0.8693 −− 0.8807
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.2113
Y: 6.5689
Product of inertia: XY: −0.0353
Radii of gyration: X: 0.7147
Y: 1.6643
Principal moments and X−Y directions about centroid:
I: 1.2111 along [1.0000 0.0066]
J: 6.5691 along [−0.0066 1.0000]

31400HVY



Area: 2.1427
Perimeter: 26.9807
Bounding box: X: −0.8750 −− 0.8750
Y: −2.3619 −− 2.6381
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 6.0389
Y: 1.0945
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.6788
Y: 0.7147
Principal moments and X−Y directions about centroid:
I: 1.0945 along [0.0000 1.0000]
J: 6.0389 along [−1.0000 0.0000]

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
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CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
NATHAN M. MYLER
No. 56879
Exp. 09-30-26
CIVIL
STATE OF CALIFORNIA

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.

MERCED CITY SCHOOL DISTRICT

CLIENT:

REVISIONS

REV	ISSUE	DATE	TO

PHASE

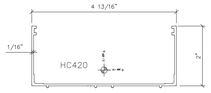
SHEET TITLE

AFG-451T
SECTION
PROPERTIES

SHEET NUMBER:

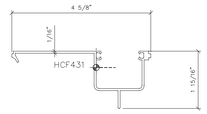
CW7.02-02

HC420



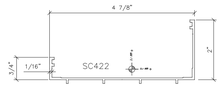
Area: 0.6154
Perimeter: 18.4513
Bounding box: X: −2.4207 −− 2.4213
Y: −0.5906 −− 1.4724
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2803
Y: 2.3001
Product of inertia: XY: 0.0001
Radii of gyration: X: 0.6749
Y: 1.9333
Principal moments and X−Y directions about centroid:
I: 0.2803 along [1.0000 0.0000]
J: 2.3001 along [0.0000 1.0000]

HCF431



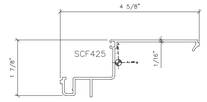
Area: 0.6213
Perimeter: 17.4105
Bounding box: X: −2.8219 −− 1.8281
Y: −1.3703 −− 0.5477
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1979
Y: 1.1983
Product of inertia: XY: −0.2315
Radii of gyration: X: 0.5644
Y: 1.3887
Principal moments and X−Y directions about centroid:
I: 0.1392 along [0.9901 0.1403]
J: 1.2492 along [0.2150 0.9766]

SC422



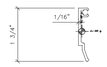
Area: 0.5534
Perimeter: 16.6642
Bounding box: X: −2.7556 −− 2.0964
Y: −0.4780 −− 1.6470
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1732
Y: 1.8344
Product of inertia: XY: 0.2402
Radii of gyration: X: 0.5594
Y: 1.8207
Principal moments and X−Y directions about centroid:
I: 0.1392 along [0.9901 0.1403]
J: 1.8684 along [−0.1403 0.9901]

SCF425



Area: 0.5715
Perimeter: 16.3365
Bounding box: X: −1.9466 −− 2.7034
Y: −1.1553 −− 0.7597
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2661
Y: 1.0694
Product of inertia: XY: 0.4449
Radii of gyration: X: 0.6824
Y: 1.3679
Principal moments and X−Y directions about centroid:
I: 0.0684 along [0.9138 0.4061]
J: 1.2672 along [−0.4061 0.9138]

SCF425ST



Area: 0.1970
Perimeter: 5.0879
Bounding box: X: −0.1163 −− 0.2307
Y: −1.0019 −− 0.7791
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0589
Y: 0.0017
Product of inertia: XY: −0.0031
Radii of gyration: X: 0.5467
Y: 0.0932
Principal moments and X−Y directions about centroid:
I: 0.0015 along [0.0542 −0.9985]
J: 0.0590 along [0.9985 0.0542]

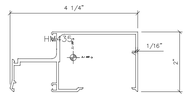
FF205

Area: 0.1812
Perimeter: 5.1236
Bounding box: X: −0.9858 −− 0.9859
Y: −0.0757 −− 0.2623
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0012
Y: 0.0708
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0812
Y: 0.6252
Principal moments and X−Y directions about centroid:
I: 0.0012 along [1.0000 0.0000]
J: 0.0708 along [0.0000 1.0000]

430CLIP

Area: 0.5256
Perimeter: 9.1886
Bounding box: X: −1.0968 −− 1.3862
Y: −0.4824 −− 0.2366
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0137
Y: 0.3244
Product of inertia: XY: 0.0100
Radii of gyration: X: 0.1614
Y: 0.7856
Principal moments and X−Y directions about centroid:
I: 0.0134 along [0.9995 0.0322]
J: 0.3247 along [−0.0322 0.9995]

HM435

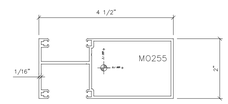


Area: 0.8836
Perimeter: 22.0960
Bounding box: X: −2.1143 −− 2.1575
Y: −1.1432 −− 0.8568
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.3956
Y: 1.5922
Product of inertia: XY: 0.2154
Radii of gyration: X: 0.6691
Y: 1.3424
Principal moments and X−Y directions about centroid:
I: 0.3580 along [0.9851 0.1719]
J: 1.6298 along [−0.1719 0.9851]

HM347

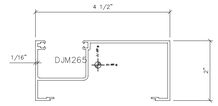
Area: 0.2003
Perimeter: 6.5527
Bounding box: X: −0.0973 −− 0.2967
Y: −1.1189 −− 0.8811
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0746
Y: 0.0021
Product of inertia: XY: 0.0020
Radii of gyration: X: 0.6102
Y: 0.1029
Principal moments and X−Y directions about centroid:
I: 0.0021 along [0.0276 0.9996]
J: 0.0746 along [−0.9996 0.0276]

MO255



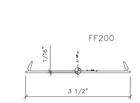
Area: 1.1663
Perimeter: 29.3325
Bounding box: X: −2.1984 −− 2.3606
Y: −1.0237 −− 0.9763
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.6410
Y: 2.8605
Product of inertia: XY: −0.0369
Radii of gyration: X: 0.7414
Y: 1.5661
Principal moments and X−Y directions about centroid:
I: 0.6404 along [0.9999 −0.0166]
J: 2.8611 along [0.0166 0.9999]

DJM265



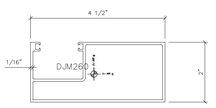
Area: 0.8513
Perimeter: 23.2040
Bounding box: X: −2.0910 −− 2.4090
Y: −1.1875 −− 0.8125
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4021
Y: 2.4536
Product of inertia: XY: 0.1450
Radii of gyration: X: 0.6873
Y: 1.6977
Principal moments and X−Y directions about centroid:
I: 0.3919 along [0.9975 0.0702]
J: 2.4638 along [−0.0702 0.9975]

FF200



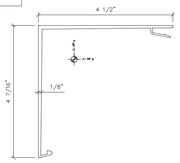
Area: 0.2449
Perimeter: 8.4650
Bounding box: X: −1.7500 −− 1.7500
Y: −0.0598 −− 0.3212
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0014
Y: 0.3143
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0765
Y: 1.1329
Principal moments and X−Y directions about centroid:
I: 0.0014 along [1.0000 0.0000]
J: 0.3143 along [0.0000 1.0000]

DJM260



Area: 1.1778
Perimeter: 29.3276
Bounding box: X: −2.1229 −− 2.3771
Y: −0.9344 −− 1.0656
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.6991
Y: 2.8647
Product of inertia: XY: 0.1076
Radii of gyration: X: 0.7704
Y: 1.5596
Principal moments and X−Y directions about centroid:
I: 0.6938 along [0.9988 0.0495]
J: 2.8701 along [−0.0495 0.9988]

CT209



Area: 0.9808
Perimeter: 20.2107
Bounding box: X: −1.1979 −− 3.3021
Y: −3.2849 −− 1.1351
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 2.0064
Y: 2.0875
Product of inertia: XY: −1.1458
Radii of gyration: X: 1.4302
Y: 1.4589
Principal moments and X−Y directions about centroid:
I: 0.9004 along [0.7195 0.6945]
J: 3.1935 along [−0.6945 0.7195]

WTH01

Area: 0.6705
Perimeter: 15.3268
Bounding box: X: −1.1126 −− 0.8874
Y: −1.0647 −− 1.1853
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1421
Y: 0.4226
Product of inertia: XY: 0.0533
Radii of gyration: X: 0.4605
Y: 0.7939
Principal moments and X−Y directions about centroid:
I: 0.1324 along [0.9836 0.1806]
J: 0.4323 along [−0.1806 0.9836]

WWB03

Area: 0.1320
Perimeter: 4.9376
Bounding box: X: −0.3627 −− 0.3156
Y: −0.3554 −− 0.5817
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0112
Y: 0.0082
Product of inertia: XY: −0.0005
Radii of gyration: X: 0.2913
Y: 0.2486
Principal moments and X−Y directions about centroid:
I: 0.0081 along [0.1665 −0.9860]
J: 0.0113 along [0.9860 0.1665]

WTT02

Area: 0.7289
Perimeter: 14.4768
Bounding box: X: −1.2042 −− 0.7958
Y: −1.1185 −− 1.1315
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1066
Y: 0.3726
Product of inertia: XY: −0.0016
Radii of gyration: X: 0.3824
Y: 0.7149
Principal moments and X−Y directions about centroid:
I: 0.1066 along [1.0000 −0.0060]
J: 0.3726 along [0.0060 1.0000]

WTZ02

Area: 0.7323
Perimeter: 14.4511
Bounding box: X: −0.9694 −− 1.0306
Y: −1.1225 −− 1.1275
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1068
Y: 0.4028
Product of inertia: XY: 0.1100
Radii of gyration: X: 0.3819
Y: 0.7417
Principal moments and X−Y directions about centroid:
I: 0.0704 along [0.9494 0.3141]
J: 0.4392 along [−0.3141 0.9494]

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

CONSULTANT:

arcadia®
ARCADIA, INC.
2301 E. Vernon Ave., Vernon, CA 90058
Tel: (323) 269-7300, Fax: (323) 261-9927

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
NATHAN M. MYLER
No. 56879
Exp. 09-30-26
CIVIL
STATE OF CALIFORNIA

THIS DRAWING AND THE DESIGNS, ARRANGEMENTS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE THE UNPUBLISHED WORK OF YC+D ARCHITECTS AND SHALL REMAIN THE PROPERTY OF YC+D ARCHITECTS IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, COPIED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF YC+D ARCHITECTS. VISUAL CONTACT WITH THE ABOVE DRAWINGS OR ANY PART THEREOF, SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.

MERCED CITY SCHOOL DISTRICT

CLIENT:

REVISIONS

REV	ISSUE	DATE	TO

PHASE

SHEET TITLE

AFG-451
SECTION
PROPERTIES

SHEET NUMBER:

CW7.03-02

DSA FILE # PC-76

PC-02-121834 MODULAR ELEVATOR HOISTWAY WITH MODULAR MACHINE ROOM "A.D.A. COMPLIANT"

S_{ds} Max = 1.336

DESIGNED FOR HYDRAULIC ELEVATOR SYSTEM

BUILDING DATA

CLASSIFICATION OF TYPE OF CONSTRUCTION PER CBC, PART 2, CHAPTER 6:

- ☐ TYPE V-A - 1-HOUR
- ☒ TYPE V-B - NON-RATED
- ☐ TYPE II-A - 1-HOUR
- ☐ TYPE II-B - NON-RATED
- ☐ TYPE III-A - 1-HOUR
- ☐ TYPE III-B - NON-RATED

USE OR OCCUPANCY CLASSIFICATION PER CBC, PART 2, CHAPTER 3:
GROUP E

NO. OF STORIES:*
HOISTWAY 1 STORY / MACHINE ROOM 1 STORY
* HOISTWAY CAN SERVE BUILDING WITH MAXIMUM OF THREE (3) STORIES INCLUDING BASEMENT

BUILDING AREAS:

- ☒ 79.17 SQ FT EACH (hoistway / machine room) Ambulance Stretcher Compliant
- ☐ 61.25 SQ. FT EACH (Hoistway / machine room)

MODULE SIZE:

- ☒ 10'-0" x 7'-11" (AMBULANCE STRETCHER COMPLIANT)
- ☐ 8'-2" x 7'-6 1/4"

THIS PC IS NOT APPROVED FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE AS SPECIFIED IN CBC CHAPTER 7A.

STRUCTURAL DESIGN NOTES

Note: See sheets EV2.2.0 and EV2.2.1 for tower height maximums and elevator floor travels.

DESCRIPTION	DESIGN VALUES	Site Specific Values
DEAD AND LIVE LOADS		
Roof Live Load	20 psf	20 PSF
Roof dead load (Including embellishments)	20 psf (includes reroof weighing 2.0 psf)	10 PSF
Wall dead load	20 psf	12 PSF
SOIL DESIGN PARAMETERS (Based on Class 5 soil per CBC Table 1806A.2)		
DL+LL (allowable bearing pressure)	1500 psf	2500 PSF
DL+LL + lateral forces (allowable bearing pressure)	2000 psf (Using Alternative Basic Load Combination per CBC Sec. 1605A.3.2)	3325 PSF
Allowable lateral pressure	150 pcf	250 PCF
Allowable friction coefficient	0.25	0.30
Subgrade Modulus	100 kcf to 500 kcf	
Equivalent fluid pressure for drained cantilevered retaining wall	35 psf	50 PSF
ROOF SNOW LOAD	PC is not designed for snow load	
FLOOD DESIGN		
Flood Hazard Area: ☐ Yes ☒ No	PC is not allowed in a flood zone	FINISHED FLOOR IS DESIGNED TO BE 2'-0" ABOVE BASE FLOOD ELEVATION, SEE CIVIL DWG
WIND DESIGN		
Basic wind speed (3 Second gust), V	110	100
Wind exposure factor:	☐ C ☐ D	C
Topographic Factor, K_{zt} (1 minimum)	1.0	1.0
Ground Elevation Factor, K_e	1.0	
Risk Category,:	☒ II	
☒ Method - MWFRS Directional Procedure - Ch 27, Part 1		
SEISMIC DESIGN		
Lateral force resisting system	Steel Ordinary Concentrically Braced Frame (Elevator Tower) Light-framed wall system w/ flat strap bracing (Machine Room)	
Analysis procedure	Equivalent lateral force procedure	
Seismic design category (SDC)	☒ D ☐ E	
Seismic Importance Factor, I_e:	☒ 1.0	
Design base shear, V	22900 pounds	
Seismic response coefficient, C_S	0.41	
Response modification factor, R	3.25	
Redundancy Factor, ρ	1.3	
Deflection Amplification, Cd	3.25	

☐ Site Class D-Default without Geotechnical Report
Note: Per the exception of ASCE 7-16 Section 11.4.8-1 (Supplement 3), Fv increased by 50%, therefore a ground motion hazard analysis is not required.
Ss = 1.67g: S1 = 0.786g: Fa = 1.2: Fv = 1.4: Sds = 1.336g: Sd1 = 1.336***

☐ Site Class C with Geotechnical Report
Ss = 1.67g: S1 = 1.431g: Fa = 1.2: Fv = 1.4: Sds = 1.336g: Sd1 = 1.336***

☒ Site Class D with Geotechnical Report
Ss = 2.0g: S1 = 1.179g: Fa = 1.2: Fv = 1.7: Sds = 1.336g: Sd1 = 1.336***

☐ Site Class E with Geotechnical Report
Ss = 1.67g: S1 = 0.835g: Fa = 1.2: Fv = 2.0: Sds = 1.336g: Sd1 = 1.336***

Ss	0.554
S1	0.232
Fa	1.357
Fv	2.0
Sds	0.501
Sd1	0.330

If geotechnical report is provided include site specific ground motion analysis per ASCE 7-16 11.4.8 or increase Fv by 50% per exceptions 11.4.8-1 (Supplement 3)

Horizontal or vertical irregularities	VERTICAL TYPE 4
Tower Height (maximum)	50'-1"
Maximum Inelastic Tower Drift	6"
*Designed Maximum Elevator Car Weight	3000 lbs
*Designed Maximum Elevator Car Capacity	3500 lbs
**ADDITIONAL EMBELLISHMENT DESIGN PARAMETERS	
Roofing	3 psf
Wall finish over 1 hour fire rating -	10 psf
Wall finish over 2 hour fire rating -	6 psf
Parapet	30 psf

* - Based on Phoenix Modular Elevator's wood core cabs without raised panels.
** - Any additional Embellishments shall be designed, engineered, & detailed by others on site specific project drawings. All work & material is by others.
*** - Per CBC Section 1613A2.3 Sds (Sms) shall not be taken as less than Sd1 (Sm1).

NOTES TO PLAN REVIEWER

1. The site-specific application drawings to provide all information necessary for the DSA plan reviewer to verify the Risk Category of the PC structure as it applies to the site in accordance with CBC Section 1604A.5.
2. Note: An elevator tower, servicing three stories or less is permitted to be considered a Risk Category II per CBC Table 1604A.5. Per CBC Section 1003.7 Elevators shall not be used as a component of a require means of egress from any other part of the building. Exception: Elevators used as an accessible means of egress in accordance with Section 1009.4. When an elevator tower is required to be a means of egress per CBC Section 1009.2.1, the Risk Category shall be the same as the main building.
3. Submittal to and approval of a geohazard report by the California Geological Survey (CGS) is not required for modular elevator towers provided they are not located within mapped geological hazard zone in accordance with IR A-4: Geohazard Report Requirements, Section 3.2.1.

PC TESTS & INSPECTIONS

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.

TESTS or INSPECTIONS (as listed on form DSA-103)		DSA 103 Item #	DESCRIPTION	Type of Permanent Modular or Relocatable Steel Moment Frame Building Project (X - Indicates Test or Inspection to be done) STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING (diaphragm or foundation material)	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
MATERIAL TYPE				CONCRETE FOUNDATION		
SOILS (Indicate if project has geotechnical report):			❶ Project has a geotechnical report, or CDs indicate soils special inspection is required by GE. ❷ Project does NOT have and does NOT require a geotechnical report.			
	GENERAL (Note 4)	S1,a	• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve design bearing capacity.		X	X
	COMPACTED FILLS	S2,a	Perform classification and testing of fill materials.		X	X
		S2,b	Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.		X	X
		S2,c	Compaction testing		X	X
	RETAINING WALLS	S5,a	Perform classification and testing of backfill		X	X
		S5,b	Placement of soil reinforcement and/or drainage devices.		X	X
		S5,d	Concrete retaining walls		X	X
		S5,e	Masonry retaining walls		X	X
CONCRETE	FOUNDATION	C1,a	Verify use of required design mix		X	X
		C1,b	Identify, sample and test reinforcing steel (See Note 1 for Waiver for one-story.)		X	
		C1,c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine temperature of the concrete.		X	X
		C1,d	Test concrete (f_c)		X	X
		C1,e	Batch plant inspection. ● Continuous ○ Periodic		X	X
	POST INSTALLED ANCHORS (Note 2)	C5,a	Inspect installation of post-installed anchors		X	X
		C5,b	Test post-installed anchors.		X	X
MASONRY	STRUCTURAL MASONRY	M1,a	Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See Item C1(b) for identification, sampling and testing of reinforcing steel		X	X
		M1,b	Producer's certificate of compliance for masonry unit, mortar and grout materials.		X	X
		M1,c	Test masonry prisms (prism test method)		X	X
		M1,d	Verify proportions or properties of site-prepared, premixed or preblended mortar and grout		X	X
		M1,g	Test core-drilled samples		X	X
		M1,h	Inspect preparation of prisms		X	X
		M1,i	Verify size, location and condition of all dowels, construction supporting masonry etc.		X	X
		M1,j	Verify size, grade and type of reinforcement, connectors, and anchor bolts. Verify size and location of structural members		X	X
		M1,m	Inspect placement of masonry units and construction of mortar joints		X	X
		M1,n	Verify preparation, construction, & protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90°)		X	X
		M1,o	Inspection type, size, and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry to structural members, frames and other construction		X	X
		M1,p	Verify grout space, including mortar protrusions, prior to placement of grout.		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	
		S/A1,b	Test unidentified materials.	X	X	
		S/A1,c	Examine seam welds of HSS shapes	X	X	
		S/A1,d	Verify and document steel fabrication per DSA-approved construction documents.	X	X	
		S/A3,a	Verify weld filler material identification markings per AWS designation listed on DSA-approved documents and the WPS	X	X	
		S/A3,b	Verify weld filler material manufacturer's certificate of compliance	X	X	
		S/A3,c	Verify WPS, welder qualifications and equipment	X	X	
	SHOP WELDING (See Note 3)	S/A4,a	Inspect groove, multi-pass fillet welds, single-pass fillet welds > 5/16"	X	X	
		S/A4,b	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	X	X	
	FIELD WELDING (See Note 3)	S/A5,a	Inspect groove, multi-pass, fillet welds, single-pass fillet welds > 5/16"		X	X
		S/A5,b	Inspect single-pass fillet welds < 5/16"		X	X
		S/A5,e	Inspect welding of structural cold-formed steel **Periodic/Special Inspector**	X	X	
	NON-DESTRUCTIVE TESTING	S/A6,a	Ultrasonic	X	X	
		S/A6,b	Magnetic Particle	X	X	
	ANCHOR BOLTS & ANCHOR RODS	S/A9,a	Anchor bolts and anchor rods	X	X	
	OTHER STEEL	S/A11,a	Shop Welding - Inspect welding of cold-formed steel **Periodic/Special Inspector**	X	X	

Additional Information for PC designs only, not to be added to DSA-103

INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In-Plant: RBIP or Class 1 Site: Class 4 for Single-Story 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 & 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	

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.

* Indicates alternative CBC Sections that community colleges may use per CBC Section 1.9.2.2.

Qualified Representative of Laboratory of Record or Approved Special Inspector shall verify all steel identification per CBC Section 2202A.1.

Nondestructive Testing is to be determined by the site-specific project applicant and approved by DSA based on site-specific project and AISC 341 requirements. Where required ultrasonic and magnetic particle testing shall be performed at the rates specified in AISC 341 Sections J6.2a and J6.2b. The test frequency reductions of AISC 341 Sections J6.2g and J6.2h are not allowed.

NOTES TO DESIGN PROFESSIONAL

1. Retaining walls (elevator pit walls) are designed for 35 pcf and are designed as drained cantilevered. Soil bearing pressures are to be validated by project site specific geotechnical report.
2. See sheet EV1.4 for maximum weights and size of embellishments for walls, roof, & parapets.
3. Utility and service lines crossing the separation joints must accomodate the drift diagrams shown on sheets EV2.2.0 & EV2.2.1.

LEGEND

SYMBOL	DESCRIPTION
1 / EV2	DETAIL (1) ON SHEET (EV2)
A / EV2	SECTION (A) ON SHEET (EV2)
△	REVISION / CHANGE IN DRAWING
CLOUD	HIGHLIGHTS CHANGED AREA

ABBREVIATIONS

B.O.	BY OTHERS
BNT	BENT
C.P.	COMPLETE PENETRATION
DIA.	DIAMETER
DIAG	DIAGONAL
EA	EACH
ELEV.	ELEVATION
EXP.	EXPANSION
F.F.	FINISH FLOOR
FT	FEET
GA.	GAUGE
HSS	HOLLOW STRUCTURAL SECTION
L	ANGLE
LB	POUND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M.R.	MACHINE ROOM
MAX.	MAXIMUM
MFR	MANUFACTURER
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
O.C.	ON CENTER
PLT	PLATE
PQR	PROCEDURE QUALIFICATION RECORD
R.O.	ROUGH OPENING
REQ'D	REQUIRED
TYP.	TYPICAL
WPS	WELDING PROCEDURE SPECIFICATION
W/	WITH
Ø	DIAMETER
O/O	OUT TO OUT
#	POUND
@	AT
℄	CENTERLINE

Fire sprinkler protection may be required in hoistway and/or machine room based on site specific elevator materials and hydraulic fluid classification. NFPA 13, 9.3.6. See also Section 9.3.6.3, & CBC 3005.4.1.

NOT PART OF PRE-CHECK DOCUMENTS

1. FIRE ALARM SYSTEM (SMOKE &/OR HEAT DETECTORS)
2. FIRE SPRINKLERS
3. EXTERIOR, FINAL FINISHES & TRIM
4. GUTTERS AND/OR DOWNSPOUTS
5. ROOF EMBELLISHMENTS

OPTIONS

- ☒ ELEVATOR SYSTEM THAT ACCOMMODATES AN AMBULANCE STRETCHER AS PER CBC
- ☐ ELEVATOR SYSTEM THAT IS FOR ACCESSIBILITY ONLY, NOT STRETCHER COMPLIANT (Standard)

SHEET INDEX

20 TOTAL SHEET COUNT

ARCHITECTURAL			
X	EV0.0-02	COVER PAGE	
X	EV1.0-02	PLAN VIEWS - ELEVATOR HOISTWAY	1 - Front / Rear Exit - Stretcher Compliant
			☒ 2 - Front Exit - Stretcher Compliant
			3 - Front / Rear Exit - Standard
			4 - Front Exit - Standard
	EV1.1-02	PLAN VIEWS - MODULAR MACHINE ROOM	1 - Standard Module Size
			2 - Stretcher Module Size
			3 - Standard Module Size with optional side door
			4 - Stretcher Module Size with optional side door
☒	EV1.2-02	MACHINE ROOM CONFIGURATIONS WITH HOISTWAY **SITE SPECIFIC NOTE: THE MACHINE ROOM WILL BE SITE-BUILT FOR THIS PROJECT.**	1 - Left Side Machine Room Configurations
			A - Right Exit Elevator
			B - Left Exit Elevator
			C - Left Exit Elevator w/ M.R. side door layout
			D - Right Exit Elevator w/ M.R. side door layout
			2 - Rear Machine Room Configurations
			A - Left Exit Elevator
			B - Left Exit Elevator w/ M.R. side door layout
			C - Right Exit Elevator
			D - Right Exit Elevator w/ M.R. side door layout
			☒ 3 - Right Side Machine Room Configurations
			☒ A - Right Exit Elevator w/ Site-Built M.R.
			B - Left Exit Elevator
			C - Right Exit Elevator w/ M.R. side door layout
			D - Left Exit Elevator w/ M.R. side door layout
☒	EV1.3-02	ARCHITECTURAL ELEVATIONS	1 - Elevator w/ Typical Rear Machine Room
			☒ 2 - Elevator w/ Typical Right Machine Room
			3 - Elevator w/ Typical Left Machine Room
X	EV1.4-02	ARCHITECTURAL DETAILS	
X	EV1.5-02	ACCESS ISSUES (ELEVATOR FIXTURES)	
STRUCTURAL			
☒	EV2.0.0-02	FOUNDATION PLANS - Sds Max. = 1.336 Stretcher Compliant Elevator System	☒ 1 - Holeless Jack System
			1A - Inground Jack System
	EV2.0.1-02	FOUNDATION PLANS - Sds Max. = 1.336	2 - Foundation with Rear M.R. Slab
			3 - Foundation with Left M.R. Slab
			4 - Foundation with Right M.R. Slab
X	EV2.1-02	FOUNDATION DETAILS	☒ Concrete ☐ CMU
☒	EV2.2.0-02	ELEVATOR HOISTWAY STRUCTURAL - Stretcher Compliant Elevator System Sds Max. = 1.336	
	EV2.2.1-02	ELEVATOR HOISTWAY STRUCTURAL - Sds Max. = 1.336	
X	EV2.3-02	ELEVATOR HOISTWAY - STRUCTURAL DETAILS	
X	EV2.3.1-02	WORKPOINT DETAILS	
X	EV2.4-02	ELEVATOR HOISTWAY - MISCELLANEOUS DETAILS	
☒	EV2.5-02	MODULAR MACHINE ROOM STRUCTURAL Stretcher Compliant Elevator System	☒ 2 - Optional Side Door
	EV2.5A-02	MODULAR MACHINE ROOM STRUCTURAL	**SITE SPECIFIC NOTE: THE MACHINE ROOM WILL BE SITE-BUILT FOR THIS PROJECT.**
☒	EV2.6-02	MODULAR MACHINE ROOM STRUCTURAL SECTION VIEWS - Stretcher Compliant Elevator System	
	EV2.6A-02	MODULAR MACHINE ROOM STRUCTURAL SECTION VIEWS	**SITE SPECIFIC NOTE: THE MACHINE ROOM WILL BE SITE-BUILT FOR THIS PROJECT.**
☒	EV2.7-02	MODULAR MACHINE ROOM - STRUCTURAL DETAILS	

BUILDING CODES & STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - (PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 - (PART 2, TITLE 24, CCR)

2022 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR)

2022 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR)

2022 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR)

2022 CALIFORNIA ENERGY CODE - (PART 6, TITLE 24, CCR)

2022 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR)

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) - (PART 10, TITLE 24, CCR)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) - (PART 11, TITLE 24, CCR)

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

Title 19 CCR, Public Safety, State Fire Marshal Regulations

NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS - 2022 EDITION

NFPA 72, NATIONAL FIRE ALARM CODE - 2022 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS

2022 CBC, CHAPTER 35

2022 CFC, CHAPTER 80

California Elevator Code, enforced by CAL/OSHA Elevator Unit - C.C.R. TITLE 8, DIV. 1, CH. 4, SUB-CHAPTER 6, ELEVATOR SAFETY ORDERS (ESO)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

PHOENIX MODULAR ELEVATOR

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CYS
STRUCTURAL ENGINEERS, INC.
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(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

REGISTERED PROFESSIONAL ENGINEER — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

Signed 2/23/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121834 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/28/2024

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.
PC-02-121834

Sheet Title:
COVER PAGE

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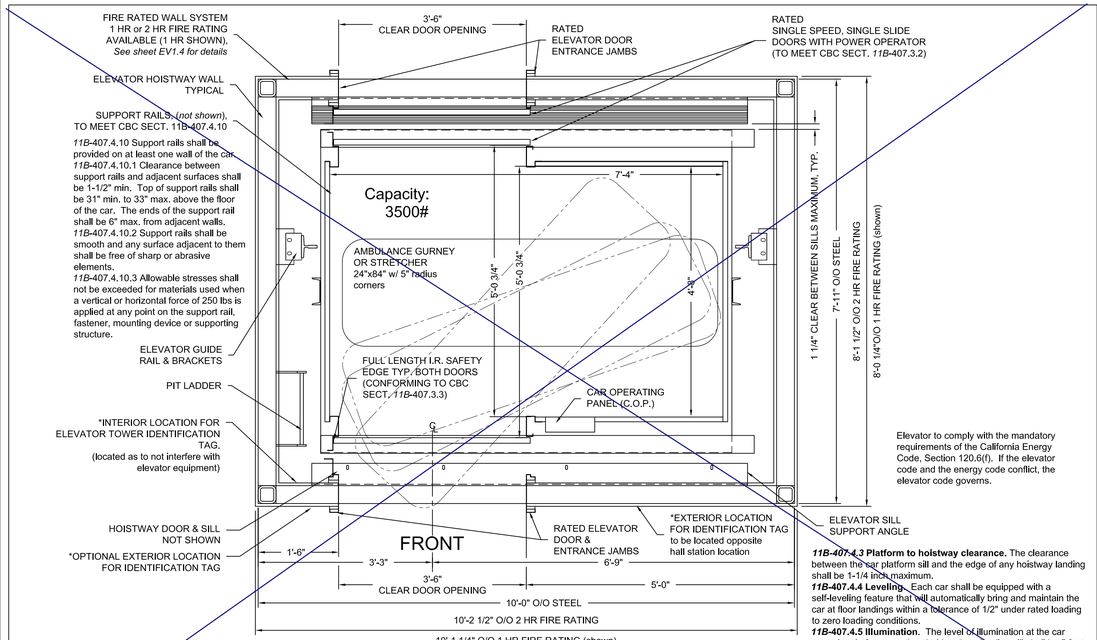
NO.	DATE	BY

REVISIONS

Drawn By: T. HOUSE
Checked By:
Date: 3/16/23
Drawing Scale: N.T.S.

SHEET NO.
EV0.0-02

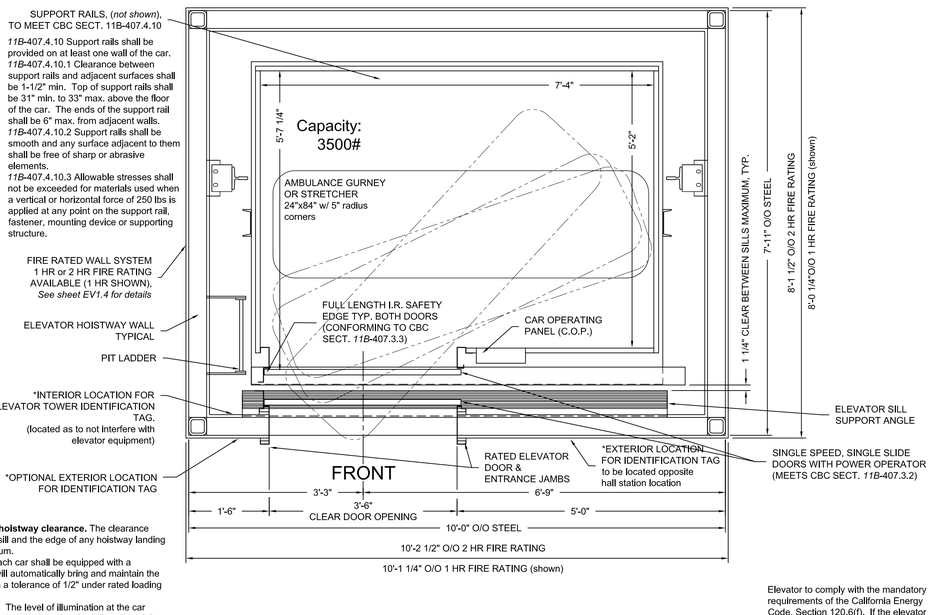


1 PLAN VIEW - FRONT / REAR EXIT
3/4"=1'-0"

PLAN VIEW SHOWN IS FOR AMBULANCE STRETCHER COMPLIANT ELEVATORS
PER CBC SECTION 3002.4/3002.4a, ALSO MEETS CCR TITLE 8 SECTION 3141.7(b).
ELEVATOR MEETS CBC SECTION *11B*-407.1

***11B-407.4.3* Platform to holstway clearance.** The clearance between the car platform sill and the edge of any hoistway landing shall be 1-1/4 inch maximum.
***11B*-407.4.4 Leveling.** Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2" under rated loading to zero loading conditions.
***11B*-407.4.5 Illumination.** The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

Estimated maximum cab weight = 3500#
Based on steel cab



2 PLAN VIEW - FRONT EXIT
3/4"=1'-0"

PLAN VIEW SHOWN IS FOR AMBULANCE STRETCHER COMPLIANT ELEVATORS
PER CBC SECTION 3002.4/3002.4a, ALSO MEETS CCR TITLE 8 SECTION 3141.7(b).
ELEVATOR MEETS CBC SECTION *11B*-407.1

***11B-407.4.3* Platform to holstway clearance.** The clearance between the car platform sill and the edge of any hoistway landing shall be 1-1/4 inch maximum.
***11B*-407.4.4 Leveling.** Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2" under rated loading to zero loading conditions.
***11B*-407.4.5 Illumination.** The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

Elevator to comply with the mandatory requirements of the California Energy Code, Section 120.6(f). If the elevator code and the energy code conflict, the elevator code governs.

Estimated maximum cab weight = 3500#
Based on steel cab

CONFIGURATION AS SHOWN
CONFIGURATION - MIRROR IMAGE

ARCHITECTS, ENGINEERS, OR CONTRACTORS -
Select the appropriate configuration for your project and mark the box.

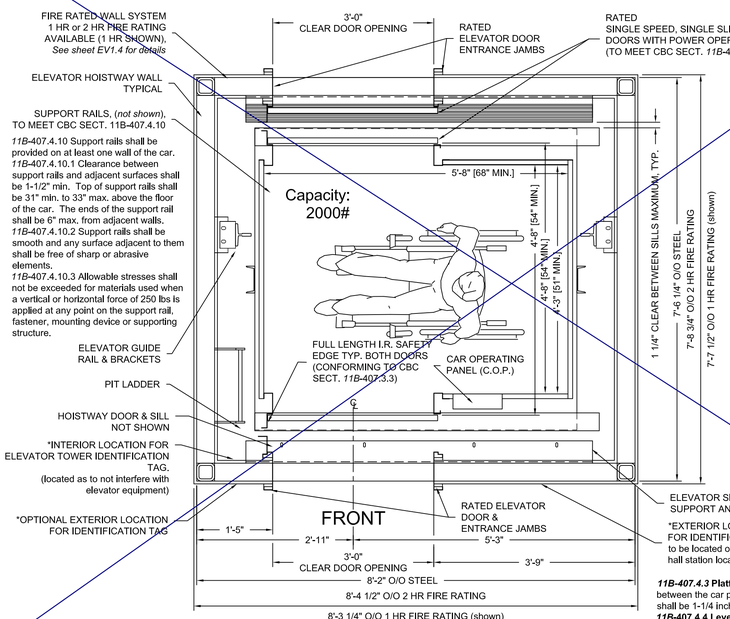
PLAN VIEWS SHOWN ARE A.D.A. COMPLIANT ELEVATOR LAYOUTS

* As required per DSA IR 16-1.19 Section 4.1.2, Elevator Module Identification. For Elevator towers that are manufactured in-plant, the elevator tower manufacturer or builder shall place two permanent metal identification labels on each tower, one mechanically fastened and visible from the exterior and the other mechanically fastened to the interior wall adjacent to the door opening. The labels shall show the DSA application number and CBC edition under which the building construction was authorized, the manufacturer's or builder's name, the serial number, the design climate zones (per Title 24, Part 6, Section 140.3, the design live loads for the roof, and the design wind speed and exposure category, and seismic design parameter Ss. The location of the identification labels shall be shown on the Pre-checked building plans.

CONFIGURATION AS SHOWN
CONFIGURATION - MIRROR IMAGE

Estimated maximum cab weight = 3500#
Based on steel cab

CONFIGURATION - MIRROR IMAGE
CONFIGURATION AS SHOWN



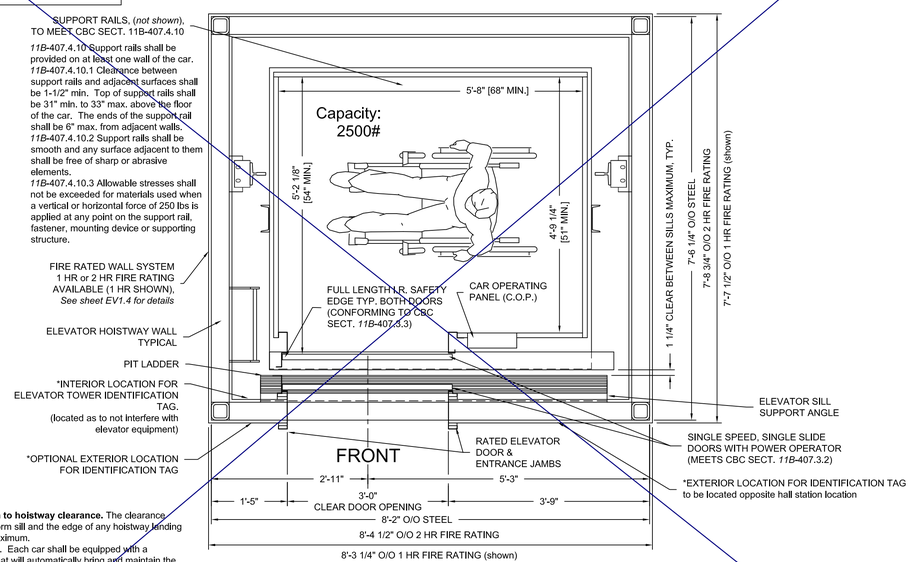
3 PLAN VIEW - FRONT / REAR EXIT
3/4"=1'-0"

PLAN VIEW SHOWN IS NOT AMBULANCE STRETCHER COMPLIANT
ELEVATOR MEETS CBC SECTION *11B*-407.1

***11B-407.4.3* Platform to holstway clearance.** The clearance between the car platform sill and the edge of any hoistway landing shall be 1-1/4 inch maximum.
***11B*-407.4.4 Leveling.** Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2" under rated loading to zero loading conditions.
***11B*-407.4.5 Illumination.** The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

Elevator to comply with the mandatory requirements of the California Energy Code, Section 120.6(f). If the elevator code and the energy code conflict, the elevator code governs.

Estimated maximum cab weight = 3200#
Based on steel cab



4 PLAN VIEW - FRONT EXIT
3/4"=1'-0"

PLAN VIEW SHOWN IS NOT AMBULANCE STRETCHER COMPLIANT
ELEVATOR MEETS CBC SECTION *11B*-407.1

***11B-407.4.3* Platform to holstway clearance.** The clearance between the car platform sill and the edge of any hoistway landing shall be 1-1/4 inch maximum.
***11B*-407.4.4 Leveling.** Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2" under rated loading to zero loading conditions.
***11B*-407.4.5 Illumination.** The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

Elevator to comply with the mandatory requirements of the California Energy Code, Section 120.6(f). If the elevator code and the energy code conflict, the elevator code governs.

Estimated maximum cab weight = 3200#
Based on steel cab

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TARYN ERNEST HOSS
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Signed
2/23/2024

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Sheet Title:
PLAN VIEWS -
ELEVATOR HOISTWAY

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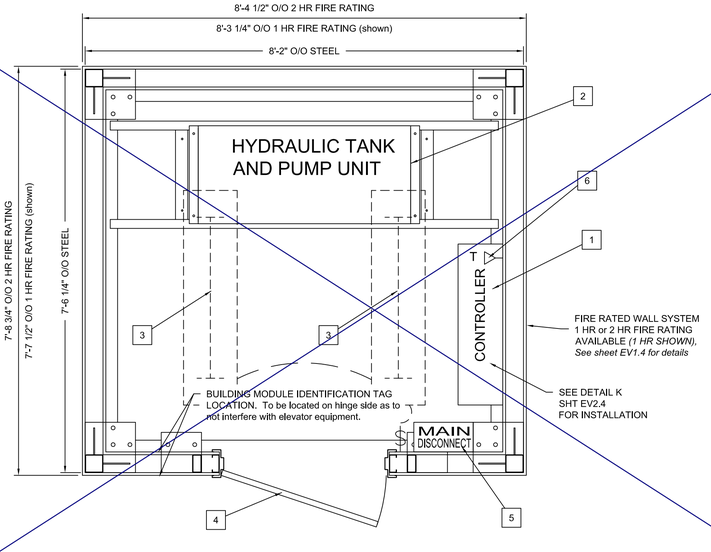
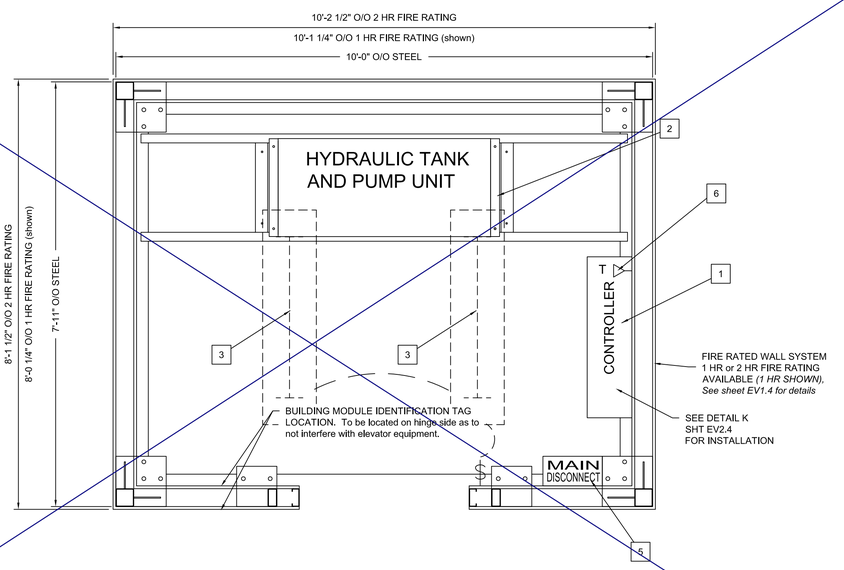
EV1.0-02

Per CBC Section 3005.4 The fire-resistance rating shall be not less than the required rating of the hoistway enclosure served by the machinery.



1 PLAN VIEW - MODULAR MACHINE ROOM
3/4"=1'-0"



This machine room is only used with a stretcher compliant elevator hoistway.

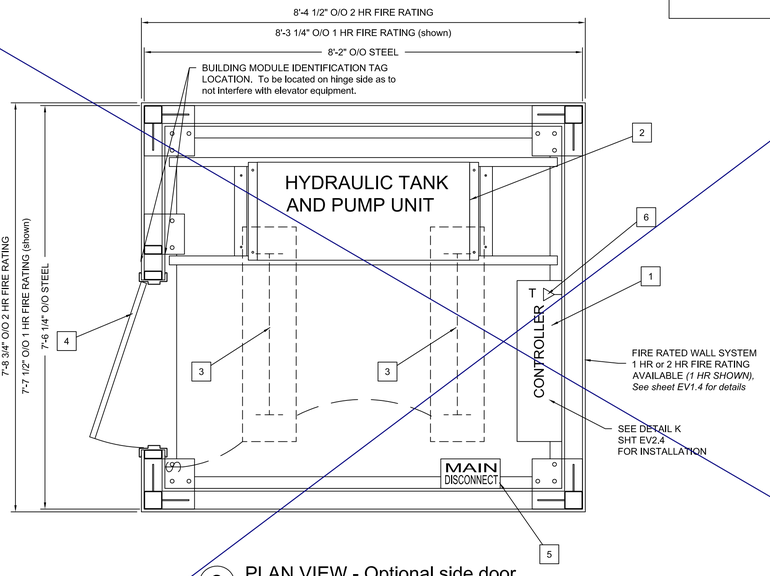
2 PLAN VIEW - MODULAR MACHINE ROOM
3/4"=1'-0"

CONFIGURATION AS SHOWN
CONFIGURATION - MIRROR IMAGE
CONFIGURATION AS SHOWN
CONFIGURATION - MIRROR IMAGE

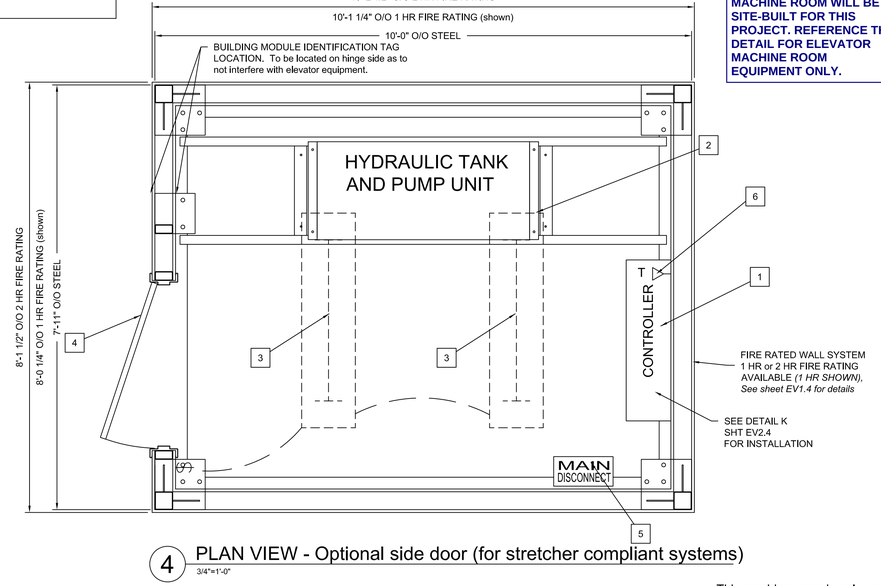
ARCHITECTS, ENGINEERS, OR CONTRACTORS - Select the appropriate configuration for your project and mark the box.

CONFIGURATION AS SHOWN
CONFIGURATION - MIRROR IMAGE
CONFIGURATION AS SHOWN
☒ CONFIGURATION - MIRROR IMAGE

SITE SPECIFIC NOTE: THE MACHINE ROOM WILL BE SITE-BUILT FOR THIS PROJECT. REFERENCE THIS DETAIL FOR ELEVATOR MACHINE ROOM EQUIPMENT ONLY.



3 PLAN VIEW - Optional side door
3/4"=1'-0"



4 PLAN VIEW - Optional side door (for stretcher compliant systems)
3/4"=1'-0"

This machine room is only used with a stretcher compliant elevator hoistway.

1	HYDRAULIC ELEVATOR CONTROLLER
2	HYDRAULIC TANK AND POWER UNIT
3	LED LIGHT FIXTURE AND LIGHT SWITCH
	Installed if optional pre-installed electrical package has been ordered.
4	36"x84" LABELED DOOR AND FRAME, also includes self-closing & self-locking hardware
5	MAIN MOTOR DISCONNECT, LOCKABLE CAR LIGHTING SWITCH, PULL BOX FOR HOISTWAY POWER, AND G.F.I. OUTLET/LIGHT SWITCH
	Installed if optional pre-installed electrical package has been ordered. (Wiring to meet code in effect at time of order)
6	PHONE LINE TO BE SUPPLIED TO CONTROLLER CONNECTION, by others.

A remote machine room or machine room supplied by others is acceptable as long as it meets all applicable codes. Designed and engineered by others.

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STATE OF CALIFORNIA
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Sheet Title:
PLAN VIEWS - MODULAR MACHINE ROOM

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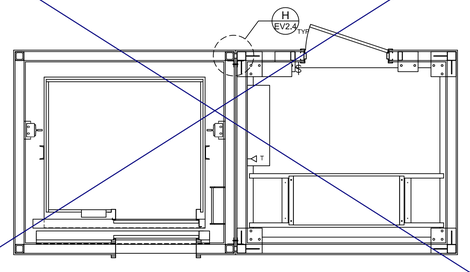
Date: 3/15/23	Drawing Scale: AS SHOWN

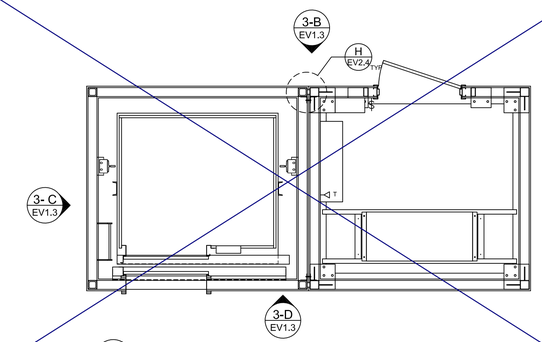
SHEET NO.
EV1.1-02

1 PLAN VIEWS - LEFT SIDE MACHINE ROOM CONFIGURATIONS

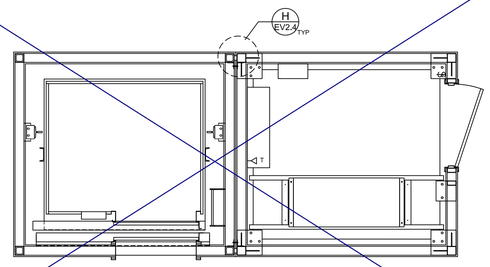
3/8"=1'-0"



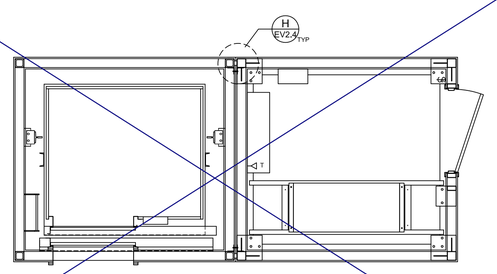
A RIGHT EXIT ELEVATOR WITH TYPICAL MACHINE ROOM



B LEFT EXIT ELEVATOR WITH TYPICAL MACHINE ROOM



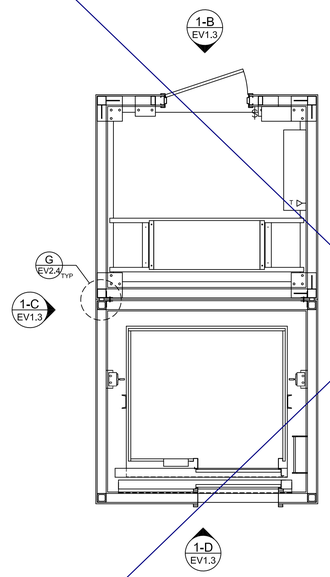
C LEFT EXIT ELEVATOR WITH OPTIONAL SIDE DOOR MACHINE ROOM



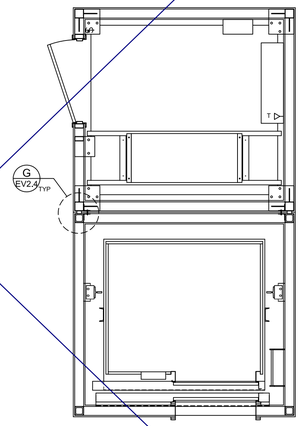
D RIGHT EXIT ELEVATOR WITH OPTIONAL SIDE DOOR MACHINE ROOM

2 PLAN VIEWS - REAR MACHINE ROOM CONFIGURATIONS

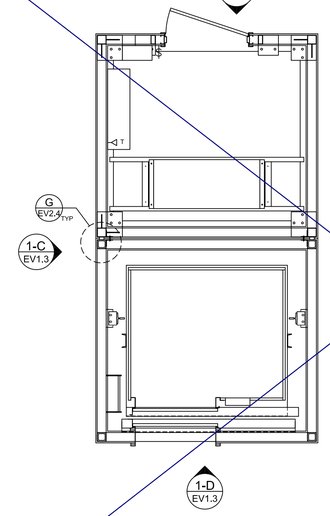
3/8"=1'-0"



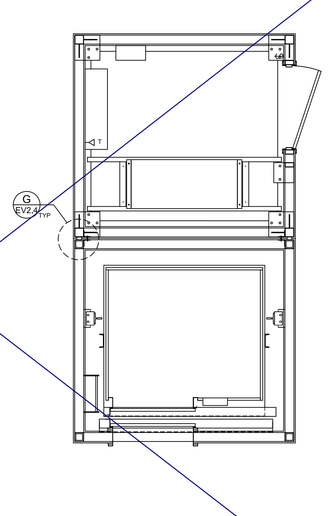
A LEFT EXIT ELEVATOR WITH TYPICAL MACHINE ROOM



B LEFT EXIT ELEVATOR WITH OPTIONAL SIDE DOOR MACHINE ROOM



C RIGHT EXIT ELEVATOR WITH TYPICAL MACHINE ROOM



D RIGHT EXIT ELEVATOR WITH OPTIONAL SIDE DOOR MACHINE ROOM

ARCHITECTS, ENGINEERS, OR CONTRACTORS -

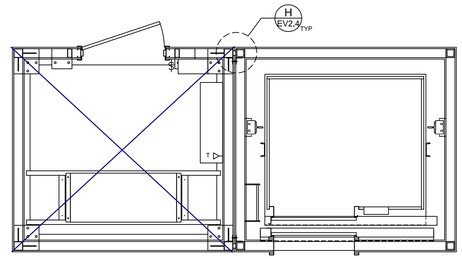
Elevator door hand determined from standing inside elevator.

Mark out non-applicable configurations

For fire ratings see sheets EV1.0, EV1.1, and EV1.4.

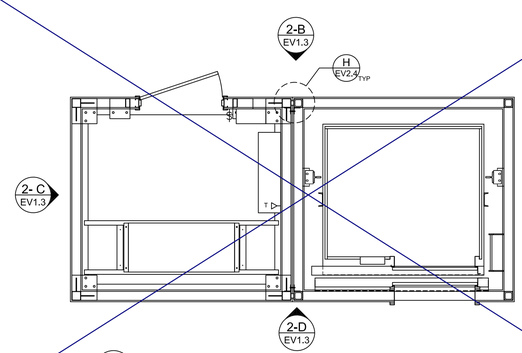
3 PLAN VIEWS - RIGHT SIDE MACHINE ROOM CONFIGURATIONS

3/8"=1'-0"

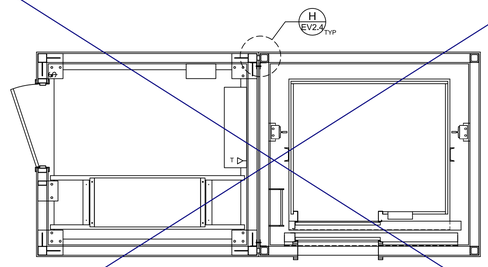


SITE SPECIFIC NOTE: THE MACHINE ROOM WILL BE SITE-BUILT FOR THIS PROJECT.

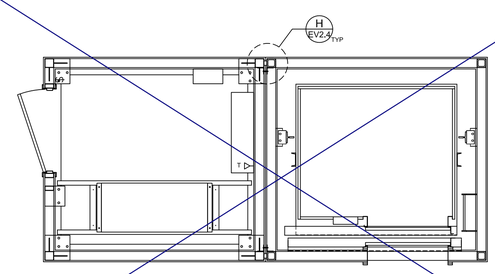
A RIGHT EXIT ELEVATOR WITH TYPICAL MACHINE ROOM



B LEFT EXIT ELEVATOR WITH TYPICAL MACHINE ROOM



C RIGHT EXIT ELEVATOR WITH OPTIONAL SIDE DOOR MACHINE ROOM



D LEFT EXIT ELEVATOR WITH OPTIONAL SIDE DOOR MACHINE ROOM

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Sheet Title:
MACHINE ROOM CONFIGURATIONS WITH HOISTWAY

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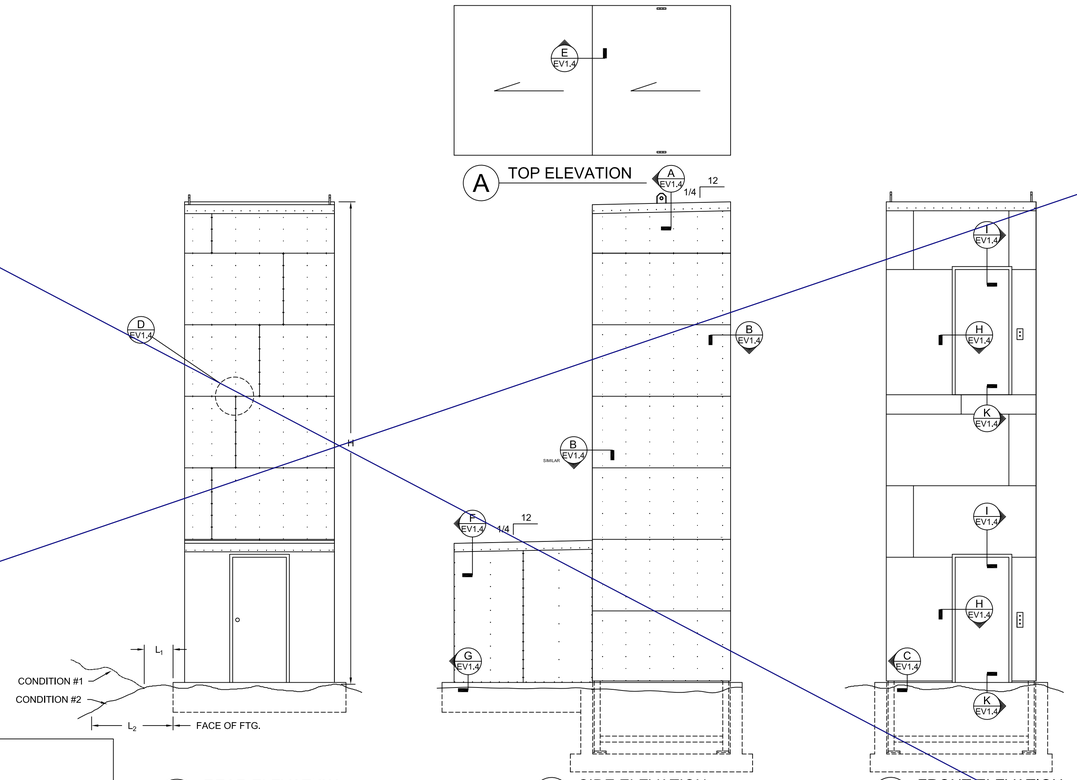
SHEET NO.

EV1.2-02

Not shown with exterior finishes, shown as it arrives from the factory. All exterior finishes besides stucco finish, trim, gutters, downspouts, and roof embellishments are detailed and provided by others. These are not part of the PC.

Notice: The hoistway has a sloped roof as it comes from the factory. Roof drainage system to be designed by others and meet 2022 CBC Section 1502.

TO DETERMINE RIGHT AND LEFT MODULAR MACHINE ROOM LOCATIONS, SEE SHEET EV1.2.

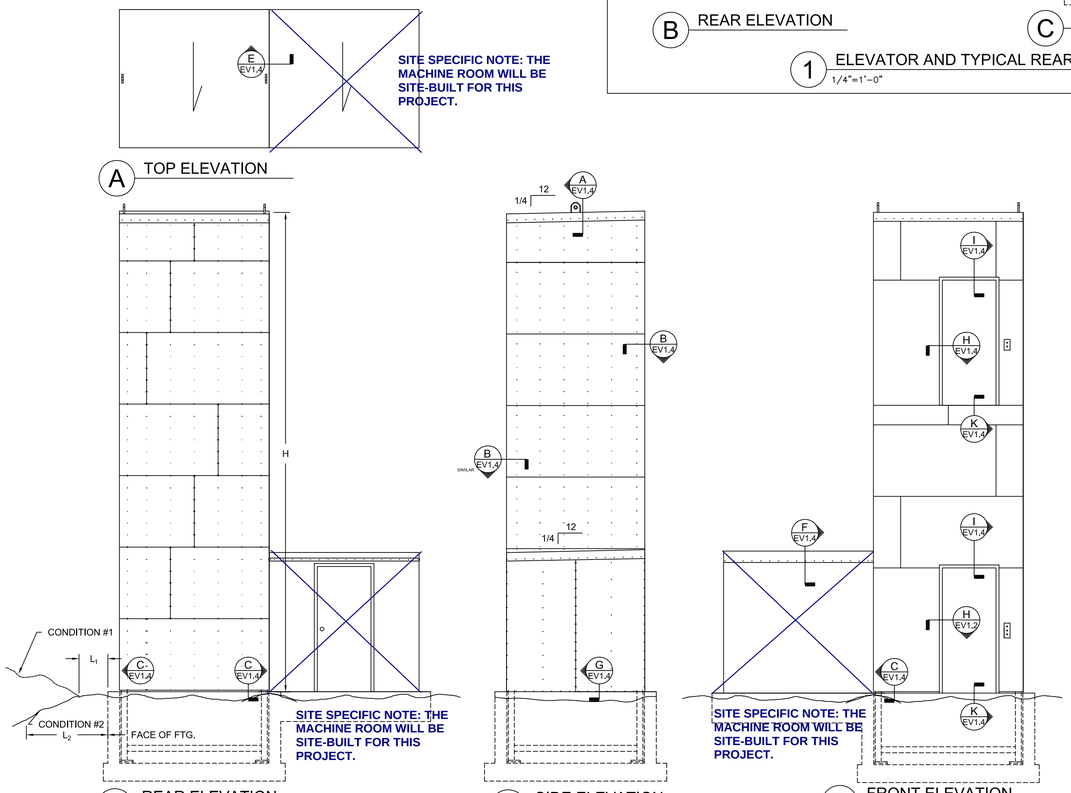


1 ELEVATOR AND TYPICAL REAR MODULAR MACHINE ROOM - ELEVATIONS
1/4"=1'-0"

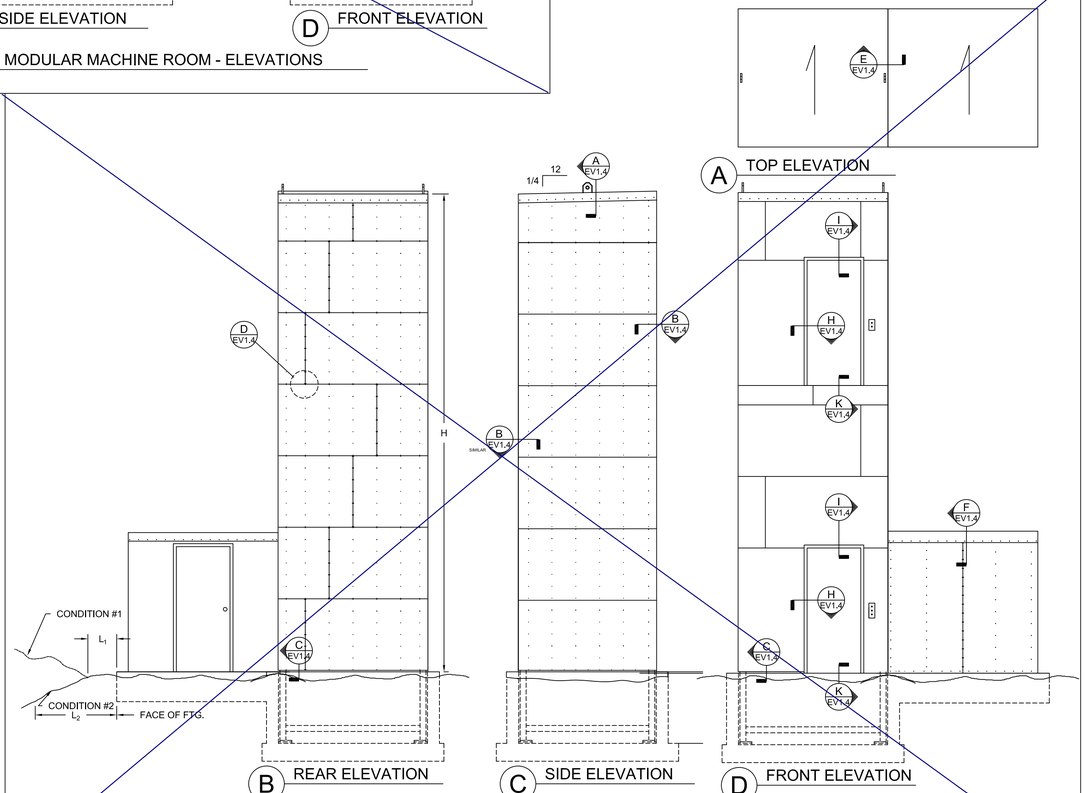
FOR FOUNDATIONS ON OR ADJACENT TO SLOPES (2022 CBC SECTION 1808A.7).

CONDITION #1: L_1 = AT LEAST THE SMALLER OF H/3 OR 40'
CONDITION #2: L_2 = AT LEAST THE SMALLER OF H/2 OR 15'

2022 CBC SECTION 1808A.7.5 Alternate setback and clearance. Alternate setbacks and clearances are permitted, subject to the approval of the building official. The building official shall be permitted to require a geotechnical investigation as set forth in Section 1803A.5.10.



2 ELEVATOR AND TYPICAL RIGHT SIDE MODULAR MACHINE ROOM - ELEVATIONS
1/4"=1'-0"



3 ELEVATOR AND TYPICAL LEFT SIDE MODULAR MACHINE ROOM - ELEVATIONS
1/4"=1'-0"

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STATE OF CALIFORNIA

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ARCHITECTURAL ELEVATIONS

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Date:	Drawing Scale:
3/15/23	AS SHOWN

SHEET NO.
EV1.3-02

Fire-resistance rating reference codes:

CBC Section 3002.1 Hoistway Enclosure Protection: Elevator, dumbwaiter and other hoistway enclosures shall be shaft enclosures complying with Section 712 and 713.

CBC Section 713.2 Shaft Enclosures: Shaft enclosures shall be constructed as fire barriers in accordance with Section 707 or horizontal assemblies in accordance with Section 711, or both.

CBC Section 713.4 Fire-resistance rating: Shaft enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more, and not less than 1 hour where connecting less than four stories. The number of stories connected by the shaft enclosure shall include any basements but not any mezzanines. Shaft enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours. Shaft enclosures shall meet the requirements of Section 703.2.1.

CBC Section 713.6 Exterior walls: Where exterior walls serve as a part of a required shaft enclosure, such walls shall comply with the requirements of Section 705 for exterior walls and the fire-resistance-rated enclosure requirements shall not apply.

CBC Section 3005.4: The following rooms and spaces shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both:

1. Machine rooms
2. Control rooms
3. Control Spaces
4. Machinery spaces outside of the hoistway enclosure

The fire-resistance rating shall be not less than the required rating of the hoistway enclosure served by the machinery. Openings in the fire barriers shall be protected with assemblies having a fire protection rating not less than that required for the hoistway enclosure doors.

Exceptions:

1. For other than fire service access elevators and occupant evacuation elevators, where machine rooms, machinery spaces, control rooms and control spaces do not abut and do not have openings to the hoistway enclosure they serve, the fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both, shall be permitted to be reduced to a 1-hour fire-resistance rating.
2. For other than fire service access elevators and occupant evacuation elevators, in buildings four stories or less above grade plane where machine room, machinery spaces, control rooms and control spaces do not abut and do not have openings to the hoistway enclosure they serve, the machine room, machinery spaces, control rooms and control spaces are not required to be fire-resistance rated.

CBC Section 3005.4.1 Automatic sprinkler system. Automatic sprinklers shall not be required to be installed in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space or elevator control room where all the following are met:

1. The requirements of NFPA 13, Section 9.3.6.3.
2. The elevator machine room, elevator machinery space, elevator control space or elevator control room shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both. The fire-resistance rating shall not be less than the required rating of the hoistway enclosure served by the machinery. Openings in the fire barriers shall be protected with assemblies having a fire protection rating not less than that required for the hoistway enclosure doors. The exceptions to Section 3005.4 shall not apply.

CBC Section 3005.5 Shunt Trip. Where elevator hoistways, elevator machine rooms, control rooms and control spaces containing elevator control equipment are protected with automatic sprinklers, a means installed in accordance with Section 21.4 of NFPA 72 shall be provided to automatically disconnect the main line power supply to the affected elevator prior to the application of water. This means shall not be self-resetting. The activation of sprinklers outside the hoistway, machine room, machinery space, control room or control space shall not disconnect the main line power supply.

NFPA 13-2022 Section 9.3.6 Elevator Machine Rooms, Machinery Spaces, Control Rooms, Control Spaces, and Hoistways (*California amendments*):

Section 9.3.6.1: The sprinkler required at the top and bottom of the elevator hoistway by 9.3.6.3 shall not be required where permitted by Chapter 30 of the California Building Code.

Section 9.3.6.2: The sprinkler required at the bottom of the elevator hoistway by 9.3.6.1 shall not be required for enclosed, noncombustible elevator shafts that do not contain combustible hydraulic fluids.

Section 9.3.6.4: Automatic sprinklers in elevator machine rooms, machinery spaces, control rooms, control spaces, or hoistways shall be standard respones.

Section 9.3.6.5: Upright, pendent, or sidewall spray sprinklers shall be installed at the top of elevator hoistways.

Section 9.3.6.6: The sprinkler required at the top of the elevator hoistway by 9.3.6.5 shall not be required where the hoistway for passenger elevators is noncombustible or limited-combustible and the car enclosure materials meet the requirements of ASME A17.1.

ASME A17.1-2004 Section 2.8.2.3.2 - ....means shall be provided to automatically disconnect the main line power supply to the affected elevator upon or prior to the application of water from the sprinklers located in the machine room or in the hoistway more than 24 in. above the pit floor.

General Notes:

1.) All elevator and modular machine room finishes contain a 1 hr fire rated wall assembly and it is based on U.L. Design Numbers U423, or U425. See typical fire rated wall assembly detail below. Exterior finishes (not shown unless noted) allowed with fire rated assemblies are the following: Aluminum siding, vinyl siding, steel siding, brick Veneer, or stucco (as shown in details to the right). Exterior finishes are supplied, installed, and detailed (except stucco) *by others. Attachment details are to be supplied with the site specific drawings by project architect / engineer.

2.) Typical roof construction for both elevator and modular machine room to contain a 1 hr fire rated finish, (based on U.L. Design No. U423, or U425), used as a horizontal firestop to meet or exceed roof - ceilings assemblies. Design consist of 1 layer of 5/8" type X fire rated gypsum board inside and outside. 3/4" fire-retardant-treated-plywood roof deck is applied and an EPDM roofing is fully adhered for a U.L. rated Class A roof. U.L. fire rating classification R 10073 (N).

3.) Water resistant barrier between gypsum and stucco finish (typical all details).

- CBC Section 2510.5.2.2 Gypsum sheathing backing. Gypsum sheathing is permitted as a backing for metal or wire fabric lath and cement plaster on walls. A water-resistive barrier shall be provided in accordance with Section 2510.6.
- CBC Section 2510.6 Water-resistive barriers. Water-resistive barriers shall be installed as required in Section 1403.2 and, where applied over wood-based sheathing, shall comply with Section 2510.6.1 or 2510.6.2..

4.) As per Title 8, Elevator Safety Orders, "Where buildings are designed with expansion joints, the machine room and the hoistway shall be located on the same side of an expansion joint."

5.) Any additional Embellishment weights shall be designed, engineered, & detailed *by others on site specific drawings in accordance with IR PC-03 2.3.4. Limited to the following weights:

a. Roofing - 3 psf
b. Wall finish 1 hr - 10 psf
c. Wall finish 2 hr - 6 psf
d. Parapet - 30 psf

* by others - Not by hoistway mfg, elevator equipment mfg, or elevator contractor.

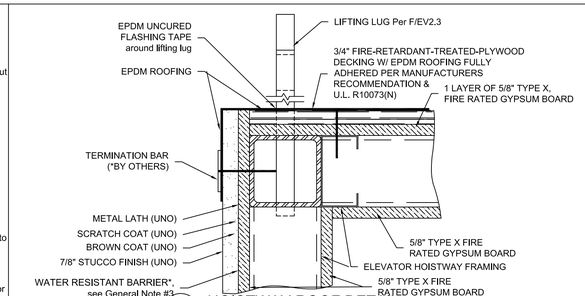
COMPONENTS & CLADDING WIND LOADS EXPOSURE C

ELEMENT	ZONE	ASCE 7-16 CH 30 FIG 30.3-2A
ROOF	1	16.0 PSF & -49.5 PSF
	2	16.0 PSF & -65.5 PSF
	3	16.0 PSF & -89.0 PSF
WALL	4	30.6 PSF & -31.0 PSF
	5	30.6 PSF & -38.0 PSF
PARAPETS	CLASS A	+/- 127 PSF

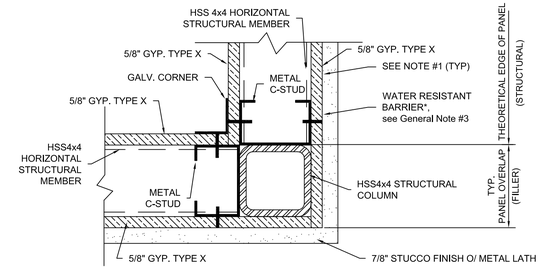
COMPONENTS & CLADDING WIND LOADS EXPOSURE D

ELEMENT	ZONE	ASCE 7-16 CH 30 FIG 30.3-2A
ROOF	1	16.0 PSF & -58.5 PSF
	2	16.0 PSF & -77.0 PSF
	3	16.0 PSF & -105.0 PSF
WALL	4	35.7 PSF & -36.5 PSF
	5	35.7 PSF & -45.0 PSF
PARAPETS	CLASS A	+/- 147 PSF

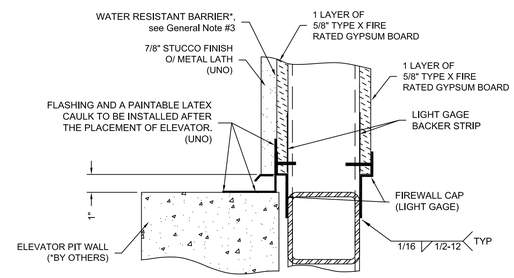
1. PLUS & MINUS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
2. COMPONENT & CLADDING WIND LOADS ARE FOR A TRIBUTARY AREA OF 10 SQ. FT. OR LESS. WIND LOADS ON TRIBUTARY AREAS GREATER THAN 10 SQ. FT. MAY BE REDUCED FOLLOWING THE PROVISIONS OF ASCE 7-16.



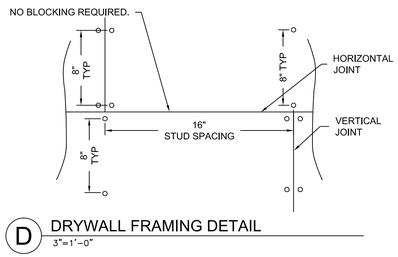
A HOISTWAY ROOF DETAIL
3"=1'-0"



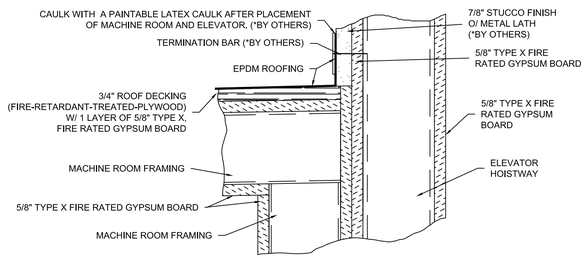
B HOISTWAY CORNER DETAIL - ABOVE PIT WALL
3"=1'-0"



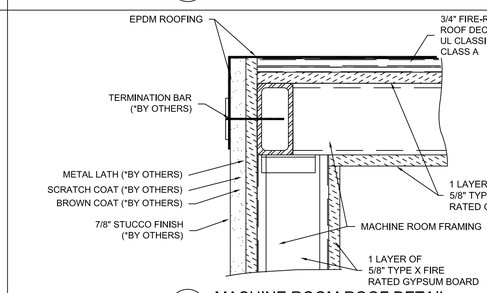
C HOISTWAY WALL DETAIL
3"=1'-0"



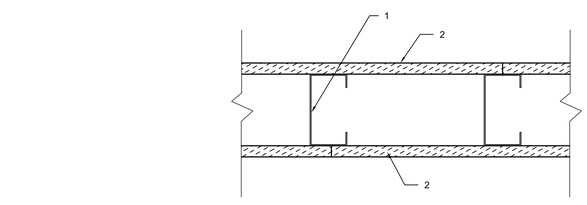
D DRYWALL FRAMING DETAIL
3"=1'-0"



E M.R. & HOISTWAY FLASHING DETAIL
3"=1'-0"



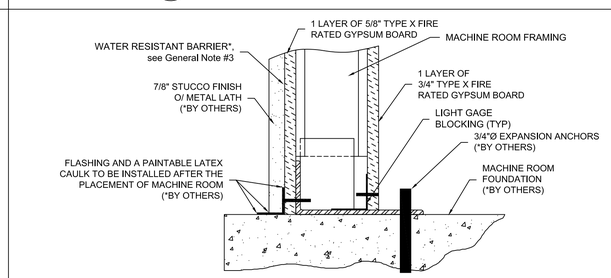
F MACHINE ROOM ROOF DETAIL
3"=1'-0"



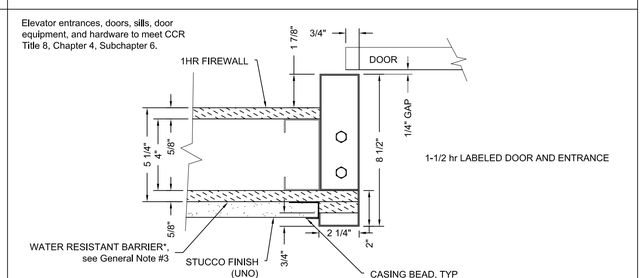
J TYPICAL FIRE RATED BEARING WALL ASSEMBLY
NOT TO SCALE

1) **Framing member - Metal studs**
Min. depth 3-1/2", 24" OC spacing maximum.
2) **Gypsum board**
For one hour rating one layer per each side of studs.
Applied vertically or horizontally to each side *(applies to U423)*. Apply vertically to each side *(applies to U425)*
Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing.
~~For two hour rating (not shown)~~ two layers per each side of studs.
U423 - Applied vertically or horizontally to each side. Vertical joints in adjacent layers (multilayer systems) staggered on stud cavity. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in.
U425 - Applied vertically with joints between layers staggered.
3) **Fasteners** (not shown)
Type S or S-12 steel screws.
UL U423 1 hr - 1 in. long, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically.
~~UL U423 2 hr - First layer - 1 in. long spaced 16 in. OC. Second layer -1 5/8 in. long spaced 16 in. OC with screws offset 8 in. from~~ first layer.
UL U425 1 hr - 1 in. long, spaced 8 in. OC.
~~UL U425 2 hr - First layer - 1 in. long, spaced 12 in. OC. Second layer - 1 5/8 in. long spaced 12 in. OC.~~
4) **Joint tape and compound** (not shown)
Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with square edge *(does not apply to U425)*.

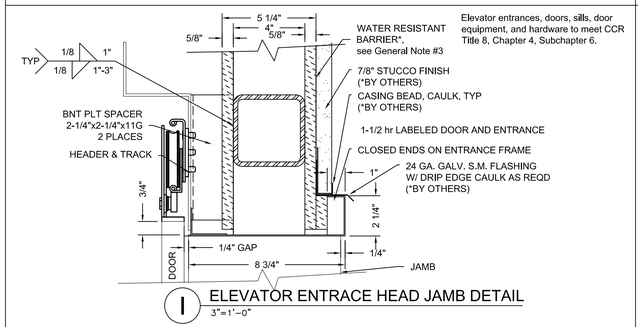
UL Design numbers are proprietary The following typical brands of gypsum board used by Phoenix Modular Elevator Inc. applies to the specific design numbers.
U423 - United States Gypsum Company: Type SCX, ULIX, ULX, USGX, USGX (5/8" only).
U425 - United States Gypsum Company: Type SCX, ULIX, ULX, USGX, USGX (5/8" only).
National Gypsum Company: Type FSW, FSW-C, FSW-3, FSW-6, FSW-8.
Certainteed: Type GLASROC, EGRG, C, X.



G MACHINE ROOM / FOUNDATION FLASHING DETAIL
3"=1'-0"

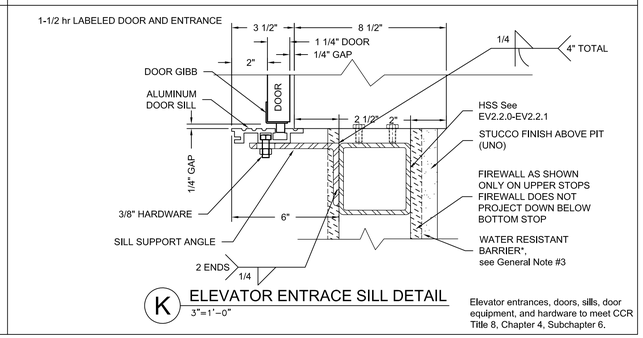


H ELEVATOR ENTRANCE SIDE JAMB DETAIL
3"=1'-0"



Elevator entrances, doors, sills, door equipment, and hardware to meet CCR Title 8, Chapter 4, Subchapter 6.

I ELEVATOR ENTRACE HEAD JAMB DETAIL
3"=1'-0"



K ELEVATOR ENTRACE SILL DETAIL
3"=1'-0"

Elevator entrances, doors, sills, door equipment, and hardware to meet CCR Title 8, Chapter 4, Subchapter 6.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

PHOENIX MODULAR ELEVATOR
PHOENIX MODULAR ELEVATOR INC.
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PHONE: (618) 244-2314 FAX: (618) 244-1923
www.PhoenixModularElevator.com
info@phoenixmodularelevator.com

Consulting Structural Engineer:
CYS
STRUCTURAL ENGINEERS, INC.
2710 Gateway Oaks Drive, Suite 190 N
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

REGISTERED PROFESSIONAL ENGINEER — JAMES ERNEST PRUST — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA
Signed 2/23/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121834 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/28/2024

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.
PC-02-121834

Sheet Title:
ARCHITECTURAL DETAILS

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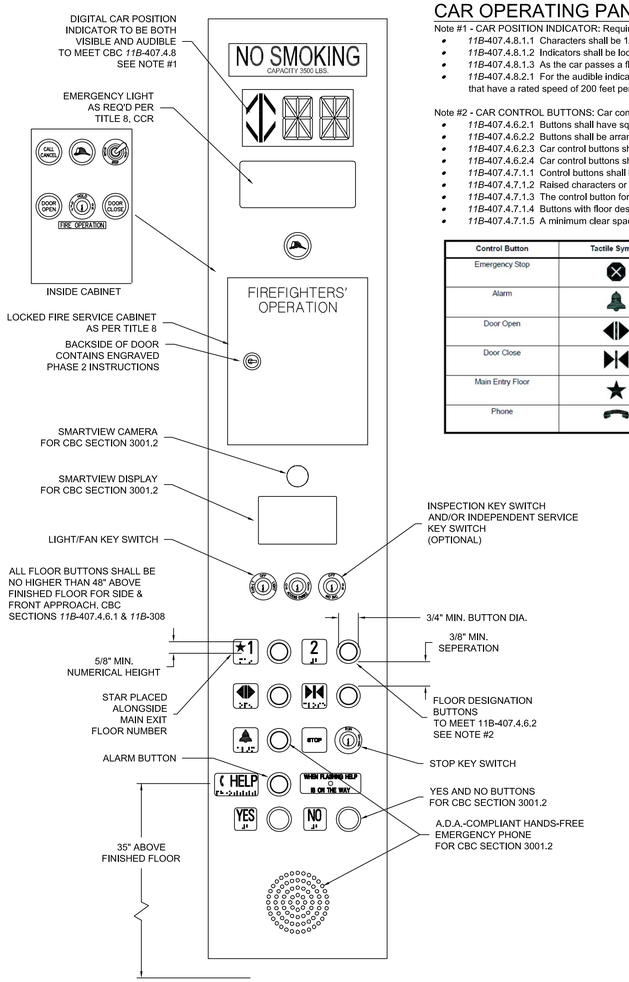
NO.	DATE	BY

REVISIONS

Drawn By:	Checked By:
T. HOUSE	
Date:	Drawing Scale:
3/15/23	AS SHOWN

SHEET NO.
EV1.4-02



1 TYPICAL CAR OPERATING PANEL DETAIL
N.T.S.

TO MEET CBC SECTION 11B-407.4.6
(PANEL & COMPONENTS MANUFACTURED BY OTHERS)

EQUIPMENT SHOWN ABOVE MANUFACTURED BY OTHERS, SUPPLIED WITH PHOENIX MODULAR ELEVATOR SYSTEMS

CAR OPERATING PANEL NOTES:

Note #1 - CAR POSITION INDICATOR: Required to have visible indicators as per *11B*-407.8.1 and audible indicators as per *11B*-407.4.8.2.

- *11B*-407.4.8.1.1 Characters shall be 1/2 inch high minimum.
- *11B*-407.4.8.1.2 Indicators shall be located above the car control panel or above the door
- *11B*-407.4.8.1.3 As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.
- *11B*-407.4.8.2.1 For the audible indicator, please note Phoenix Modular Elevators are only designed for a maximum rated speed of 200 fpm or less. Code *11B*-407.4.8.2.*1* requires the signal to be an automatic verbal annunciator with the exception for elevators that have a rated speed of 200 feet per minute or less. This exception permits a non-verbal audible signal with a frequency of 1500 Hz maximum which sounds as the car passes or is about to stop at a floor served by the elevator shall be permitted.

Note #2 - CAR CONTROL BUTTONS: Car control buttons with floor designations shall comply with Section *11B*-407.4.6.2 and designations and indicators of car controls shall comply with Section *11B*-407.4.7.

- *11B*-407.4.6.2.1 Buttons shall have square shoulders, be 3/4" minimum in their smallest dimension and be raised 1/8" +/- 1/32" above the surrounding surface.
- *11B*-407.4.6.2.2 Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided they shall read from left to right.
- *11B*-407.4.6.2.3 Car control buttons shall be illuminated.
- *11B*-407.4.6.2.4 Car control buttons shall be activated by mechanical motion that is detectable.
- *11B*-407.4.7.1.1 Control buttons shall be identified by raised characters or symbols, white on a black background, complying with Section *11B*-703.2 and Braille complying with Section 11B-703.3.
- *11B*-407.4.7.1.2 Raised characters or symbols and Braille designations shall be placed immediately to the left of the control button to which the designations apply.
- *11B*-407.4.7.1.3 The control button for the emergency stop, alarm, door open, door closed, main entry floor, and phone, shall be identified with raised symbols and Braille. See table below.
- *11B*-407.4.7.1.4 Buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indication shall extinguish when the car arrives at the designated floor.
- *11B*-407.4.7.1.5 A minimum clear space of 3/8" or other suitable means of separation shall be provided between rows of control buttons.

Control Button	Tactile Symbol	Braille Message
Emergency Stop		"ST"OP Three cells
Alarm		AL"AR"M Four cells
Door Open		OP"EN" Three cells
Door Close		CLOSE Five cells
Main Entry Floor		MA"IN" Three cells
Phone		PH"ONE" Four cells

GENERAL NOTES:

FIRE SERVICE PHASE 1 & 2 SERVICE NOTES:

CBC Section 3003.2 Fire-fighters' emergency operation. Elevators shall be provided with Phase I emergency recall operation and Phase II emergency in-car operation in accordance with California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.

11B-407.1 **General.** Elevators shall comply with Section 11B-407 and with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

- *11B*-407.1.1 **Combined passenger and freight elevators.** *When the only elevators provided for use by the public and employees are combination passenger and freight elevators, they shall comply with Section 11B-407 and with ASME A17.1.*

[The below reopening device and control system for door & signal timing/door delay is manufactured and adjusted by others.]

11B-407.3.3 **Reopening Device**. Elevator doors shall be provided with a reopening device complying with Section *11B*-407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

- *11B*-407.3.3.1 The device shall be activated by sensing an obstruction passing through the opening at 5" nominal and 29" nominal above the finish floor.
- *11B*-407.3.3.2 the device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.
- *11B*-407.3.3.3 Door opening devices shall remain effective for 20 seconds minimum.

11B-407.3.4 **Door and signal timing**. The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from the following equation: *T*=*D*/(*1.5ft/s*) or *T*=*D*/(*457mm/s*) + 5 seconds minimum where *T* equals the total time in seconds and *D* equals the distance (in feet or millimeters) from the point in the lobby or corridor 60" (1524 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.
Exceptions: For cars with in-car lanterns, *T* shall be permitted to begin when the signal is visible from the point 60" (1524 mm) directly in front of the farthest hall call button and the audible signal is sounded.

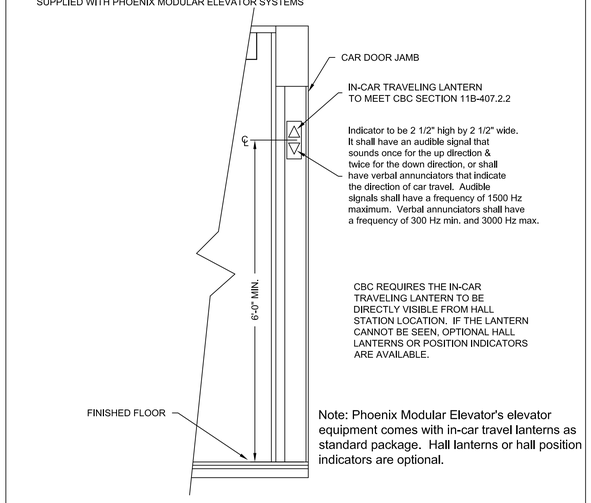
11B-407.3.5 **Door Delay**. Elevator door shall remain fully open in response to a car call for 5 seconds min.

CBC Section 3001.2 Emergency elevator communication systems for the deaf, hard of hearing and speech impaired.
An emergency two-way communication system shall be provided. The system shall provide visible text and audible modes that meet all the following requirements:

1. When operating in each mode, include a live interactive system that allows back and forth conversation between the elevator occupants and emergency personnel.
2. Is operational when the elevator is operational.
3. Allows elevator occupants to select the text-based or audible mode depending on their communication needs to interact with emergency personnel.

CBC Section 3001.4 Accessibility. Passenger elevators and platform (wheelchair) lifts required to be accessible or to serve as part of an accessible means of egress shall comply with Sections 1009 and either Chapter 11A for applications listed in Section 1.8.2.1.2 regulated by the Department of Housing and Community Development or Chapter B for applications listed in Section 1.9.1 regulated by the Division of the State Architect - Access Compliance.

TRAVEL LANTERNS ARE MANUFACTURED BY OTHERS, SUPPLIED WITH PHOENIX MODULAR ELEVATOR SYSTEMS

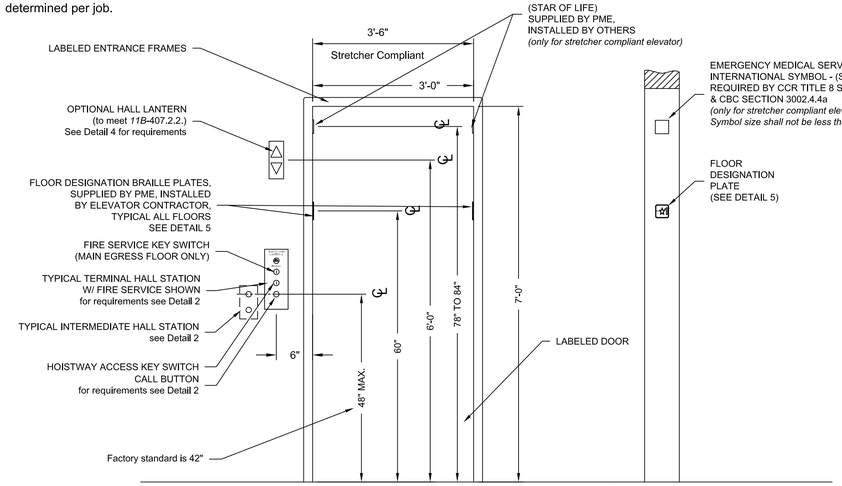


Note: Phoenix Modular Elevator's elevator equipment comes with in-car travel lanterns as standard package. Hall lanterns or hall position indicators are optional.

4 TYPICAL IN-CAR TRAVELING LANTERN DETAIL
N.T.S.

TO MEET CBC SECTION 11B-407.2.2

Shown in this detail are the common hall stations, a terminal hall station with fire service and an intermediate hall station. PME typically installs at 42" button centerline dimension for locating hall stations. The actual hall station required will be determined per job.



3 HOISTWAY ENTRANCE ELEVATION
FOR STANDARD ELEVATOR

HALL STATION LOCATION

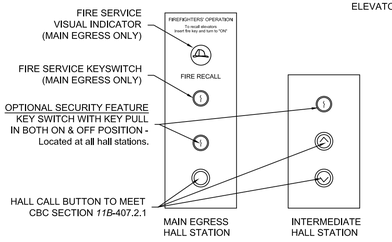
☐ HALL STATIONS LOCATED IN THE ELEVATOR HOISTWAY WALL - FACTORY INSTALLED

☐ HALL STATIONS LOCATED IN THE BUILDING CORRIDOR - FIELD INSTALLED BY OTHERS
LOCATIONS AND DIMENSIONS TO BE PROVIDED BY PROJECT ARCHITECT, ENGINEER, OR CONTRACTOR.

EQUIPMENT SHOWN ABOVE MANUFACTURED BY OTHERS, SUPPLIED WITH PHOENIX MODULAR ELEVATOR SYSTEMS

ALL DOOR JAMB MARKINGS SHOWN ARE FOR THE MAIN EGRESS FLOOR.

EQUIPMENT SHOWN BELOW MANUFACTURED BY OTHERS, SUPPLIED WITH PHOENIX MODULAR ELEVATOR SYSTEMS



2 TYPICAL HALL STATION DETAIL
N.T.S.

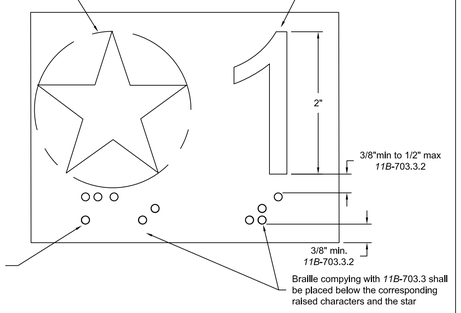
TO MEET CBC SECTION 11B-407.2.1

The hall button location shall be horizontally located on a case by case basis. The hall station location shall comply with Section *11B*-407.2.1.3 which requires a clear floor or ground space complying with Section *11B*-305. dependent of the wall/partition design etc. adjacent to the elevator door. The factory installed standard is 6"+/- from hoistway jamb to centerline of hall station and only located on strike jamb side of the opening.

- *11B*-407.2.1.1 Call buttons shall be located within one of the reach ranges specified in section *11B*-308, measured to the centerline of the highest operable part.
- *11B*-407.2.1.2 Call buttons shall have square shoulders, be 3/4" minimum in the smallest dimension and shall be raised 1/8" +/- 1/32" above the surrounding surface. The buttons shall be activated by a mechanical motion that is detectable.
- *11B*-407.2.1.3 A clear floor or ground space complying with Section *11B*-305 shall be provided at call controls.
- *11B*-407.2.1.4 The call button that designates the up direction shall be located above the call button that designates the down direction.
- *11B*-407.2.1.5 Call buttons shall have visible signals that will activate when each call is registered and will extinguish when each call is answered. Call buttons shall be internally illuminated with a white light over the entire surface of the button.

RAISED 1/32" "STAR" ONLY LOCATED @ MAIN ENTRY LEVEL (*11B*-407.2.3.1) MUST BE A FULL 2" DIAMETER AND ALL POINTS SHALL BE OF EQUAL LENGTH

RAISED FLOOR NUMBER SHALL BE 1/32" MIN ABOVE THEIR BACKGROUND



5 TYPICAL DOOR JAMB MARKING (BRAILLE PLATE)
N.T.S.

TO MEET CBC SECTION *11B*-407.2.3
REQUIRED ON BOTH JAMBS AS PER 11B-407.2.3.1, AND AT ALL FLOOR LEVELS
PLATE SHOWN ABOVE MANUFACTURED BY OTHERS, SUPPLIED WITH PHOENIX MODULAR ELEVATOR SYSTEMS

11B-703.2 Raised characters shall comply with Section *11B*-703.2 and shall be duplicated in Braille complying with Section *11B*-703.3. Raised characters shall be installed in accordance with Section *11B*-703.4.

- *11B*-703.2.1 Raised characters shall be 1/32 inch minimum above their background
- *11B*-703.2.2 Characters shall be uppercase
- *11B*-703.2.3 Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.
- *11B*-703.2.4 Characters hall be selected from fonts where the width of the uppercase letter "O" is 60% min. and 110% max. of the height of the upper case letter "I".
- *11B*-703.2.6 Stroke thickness of the uppercase letter "I" shall be 15% max. of the height of character
- *11B*-703.2.7 Character spacing shall be measured between the two closet points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8" minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16" minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8" minimum.

11B-703.3 Braille shall be contracted (Grade 2) and shall comply with Sections *11B*-703.3 and *11B*-703.4.

- *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.
- *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 boarders and decorative elements.
Exception: Braille provided on elevator car controls shall be separated 3/16+": minimum and shall be located either directly below the corresponding raised characters or symbols.

11B-703.4 Signs with tactile characters shall comply with Section *11B*-703.4.

- *11B*-703.4.1 - Exception: Tactile characters for elevator car controls shall not be required to comply with Section *11B*-703.4.1.

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 cell[1]	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1]	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1]	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

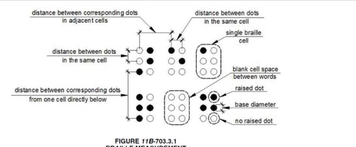


FIGURE *11B*-703.3.1
BRAILLE MEASUREMENT

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REGISTERED PROFESSIONAL ENGINEER JAMES ERNEST CYS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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PC-02-121834

Sheet Title:

ACCESS ISSUES
(ELEVATOR FIXTURES)

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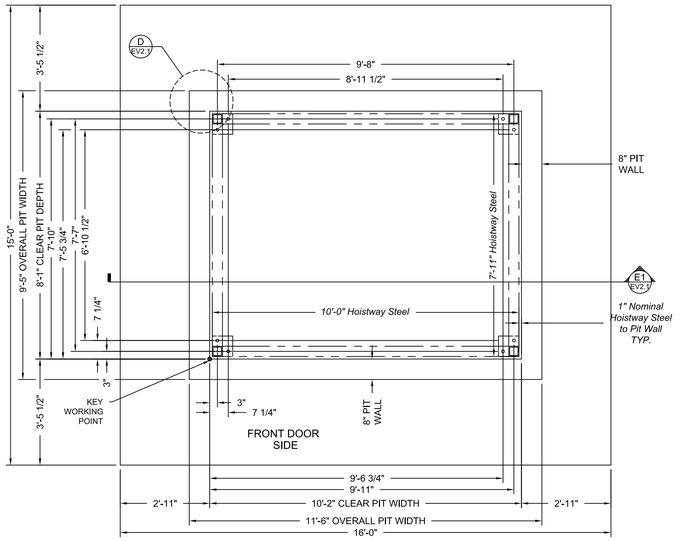
Date: 3/15/23	Drawing Scale: AS SHOWN

SHEET NO.

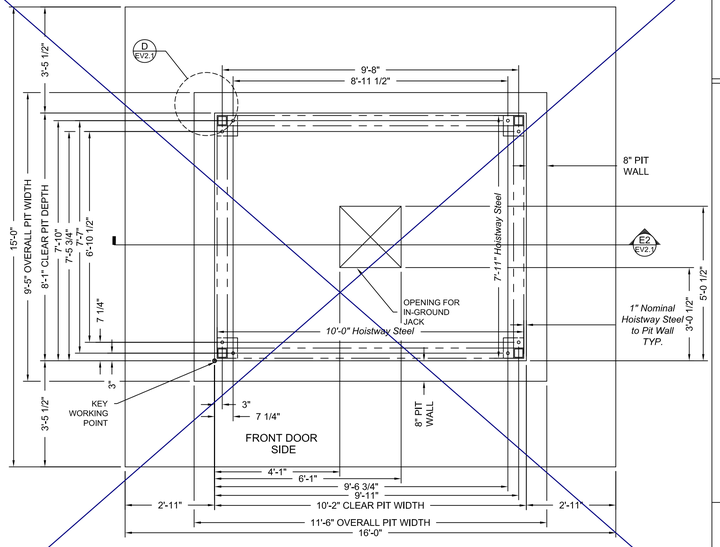
EV1.5-02



1 PLAN VIEW ELEVATOR PIT - HOLELESS SYSTEM

N.T.S.

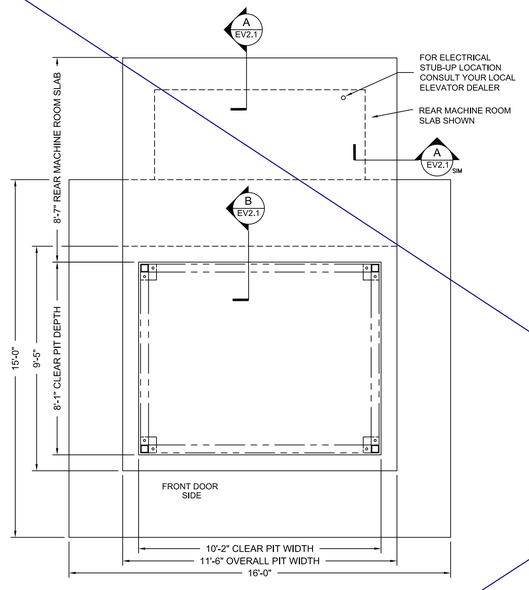
SEE GENERAL NOTE #2



1A PLAN VIEW ELEVATOR PIT - INGROUND SYSTEM

N.T.S.

SEE GENERAL NOTE #2



2 PLAN VIEW ELEVATOR PIT AND MACHINE ROOM SLAB

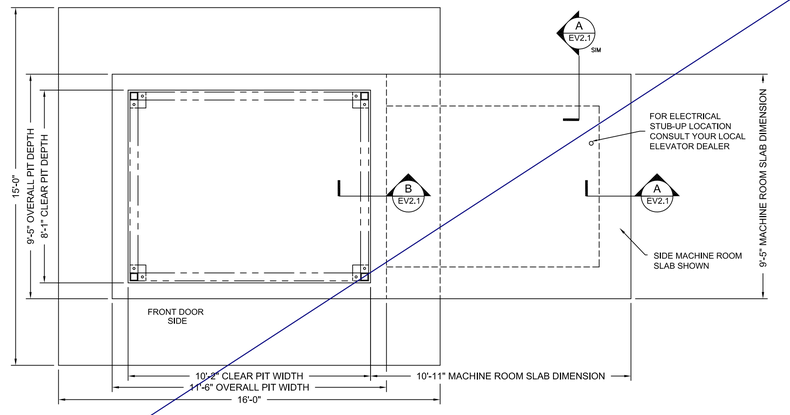
N.T.S.

REAR MACHINE ROOM ORIENTATION SHOWN

SEE GENERAL NOTE #2

Plan views shown are for the stretcher compliant elevator system.
Sheet EV2.0.1 is for a standard size accessibility elevator.

Work depicted on this drawing is not part of the hoistway mfr, elevator equipment mfr, or the elevator contractor's scope of work.

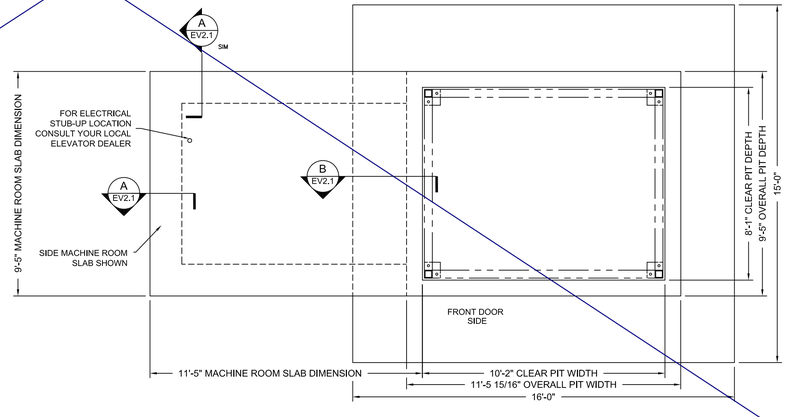


3 PLAN VIEW ELEVATOR PIT AND MACHINE ROOM SLAB

N.T.S.

LEFT SIDE MACHINE ROOM ORIENTATION SHOWN

SEE GENERAL NOTE #2



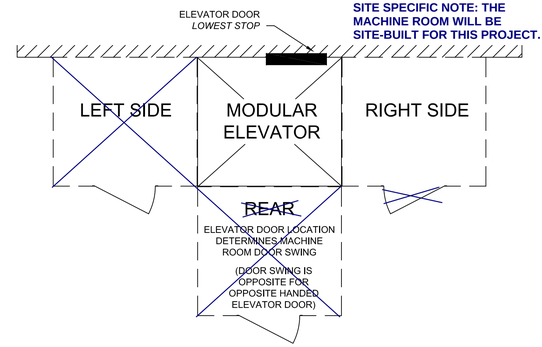
4 PLAN VIEW ELEVATOR PIT AND MACHINE ROOM SLAB

N.T.S.

RIGHT SIDE MACHINE ROOM ORIENTATION SHOWN

SEE GENERAL NOTE #2

This page is only for projects that have the S_{ds} Max. = 1.336



A OPTIONAL MODULAR MACHINE ROOM LOCATIONS

SCALE: NONE

NOTES

GENERAL

1. Construct in accordance with 2022 California Building Code, Title 24, Part 2, Chapter 19A.
2. Place Machine Room Slab on side of elevator that the machine room is to be placed. See Detail A.
3. If machine room is positioned other than as shown in Detail A it shall be the responsibility of the Project Architect or Engineer of Record to design required slab.

MATERIALS

1. Concrete shall have a 28 day compressive strength of 5000 PSI. Where a site specific geotechnical report does not quantify the sulfate content in the soil, concrete shall conform to S3 Option 2 per ACI 318 Table 19.3.2.1.
2. Non-shrink grout for column base plates shall be a pre-mixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; capable of developing a minimum compressive strength of 2400 PSI in 48 hours and 7000 PSI in 28 days.
3. All reinforcing bars shall conform to ASTM A706 - Grade 60
4. Concrete aggregate shall comply with California Building Code, Title 24, Part 2, Section 1903A.
5. Maximum concrete aggregate size = 1".
6. Cement shall comply with 2022 California Building Code, Title 24, Part 2, Section 1903A Portland cement Type II/V.
7. Concrete mix shall comply with ACI 318-19, Section 26.4.3.1(a)(d).
8. Concrete curing shall comply with ACI 318-19, Section 26.5.3.2(a)(b).
9. Concrete shall not be placed until the forms and reinforcement have been inspected, all preparation for the placement have been completed, and the preparations have been checked by the project inspector, all subject to the observation of the structural engineer or architect.
10. Removal of form work shall comply with ACI 318-19, Section 26.11.2.1(a) to (g).
11. Concrete masonry units shall be ASTM C90, normal weight, hollow load bearing units. fm = 2000 PSI
12. Mortar shall be ASTM C270, Type M, with minimum compressive strength of 2000 PSI @ 28 days.
13. Grout shall attain a minimum compressive strength of fg = 2000 PSI at 28 days, per ASTM C476.
14. Units shall be open ended laid in common bond and provide unobstructed vertical continuity of all cells. Open ended and bond beam units are to be provided.
15. All masonry shall be reinforced as shown on these drawings and all cells shall be grouted solid.
16. Masonry shall be constructed with low lift grouting per Section 2104A.5.1.2.2.
17. Min. clear distance between masonry and rebar shall be 1 rebar dia.

SITE WORK

1. All topsoil and organic material shall be removed from site.
2. A minimum of 6" of compacted fill shall be provided below the sand and vapor barrier layers below the slab on grade. Fill shall be compacted to 95%.
3. All back fill shall be compacted to 95%
4. Presumptive allowable soil bearing pressures (to be validated by geotechnical report):
   For dead and live loads = 1500 #/SF
   For seismic and wind loads = 2000 #/SF

ANCHORAGE

1. Hoistway anchorage to be cast in concrete with 20" minimum embedment. Anchorage to be per Detail F/EV2.1. Anchor rod to be ASTM F1554 Grade 105. F_U = 125 ksi.
2. Modular machine room anchorage to be expansion anchors.
   a. Expansion anchors to be Hilti Kwik Bolt TZ2 (ICC # ESR-4266), or equivalent.
      Anchors @ perimeter walls: 3/4"Ø with a minimum effective embedment of 4-3/4".
      Anchors below hyd. pump unit: minimum 1/2"Ø with a minimum effective embedment of 3-1/2".
   b. It is acceptable for the substitution of adhesive anchors for the expansion anchors if used to anchor the base of the machine room. Adhesive anchors @ perimeter walls must use a minimum 6-1/4" effective embedment. Adhesive anchors below hyd. pump unit must use a minimum 5/8" Ø with a 4" effective embedment. The adhesive anchors are to be ASTM A36 or ASTM A307 threaded rod with Hilti HIT-RE 500 V3 Adhesive (ICC # ESR-3814).
   c. Test Loads shall be per the following Table (CBC Sect. 1910A.5.4):

A.B. TYP.	ANCHOR BOLT SIZE (INCHES)	TORQUE LOAD (FT-LBS)	TENSION (FT-LBS)
EXPANSION	1/2"	40	N/A
	3/4"	110	N/A
ADHESIVE	3/4"	N/A	11,120
	5/8"	N/A	5,860

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REGISTERED PROFESSIONAL ENGINEER — PATRICK ERNEST HOSS — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
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PC-02-121834

Sheet Title:

FOUNDATION PLANS -
Sds Max.= 1.336
Stretcher Compliant
Elevator System

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NO.	DATE	BY

REVISIONS

Drawn By:	Checked By:
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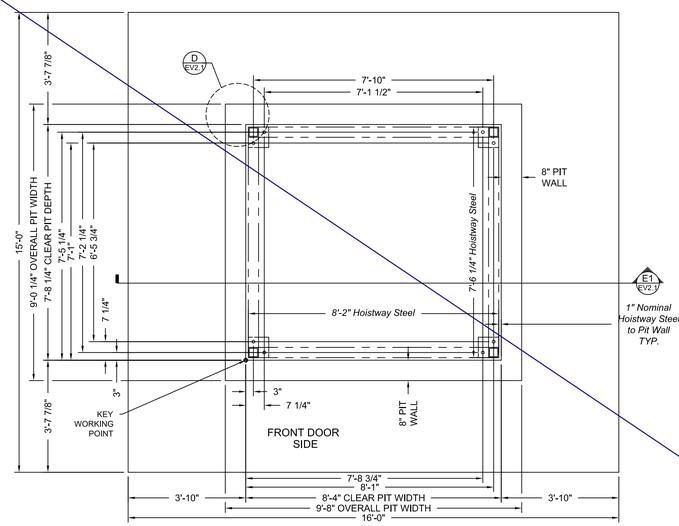
Date:	Drawing Scale:
3/15/23	AS SHOWN

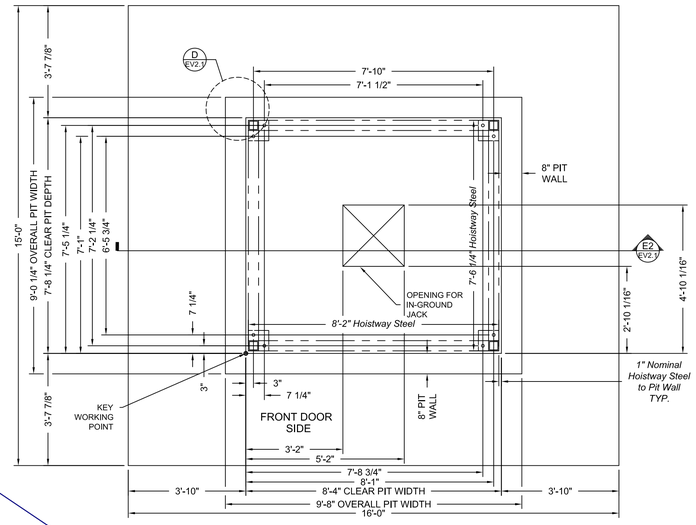
SHEET NO.

EV2.0.0-02



1 PLAN VIEW ELEVATOR PIT - HOLELESS SYSTEM
N.T.S.

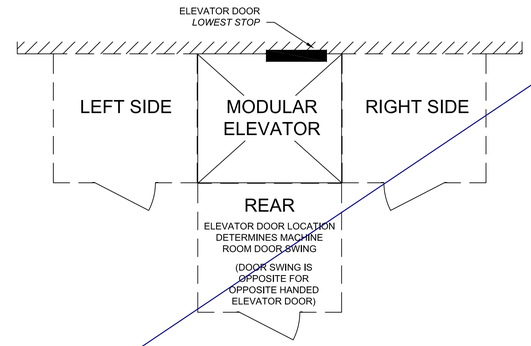
SEE GENERAL NOTE #2



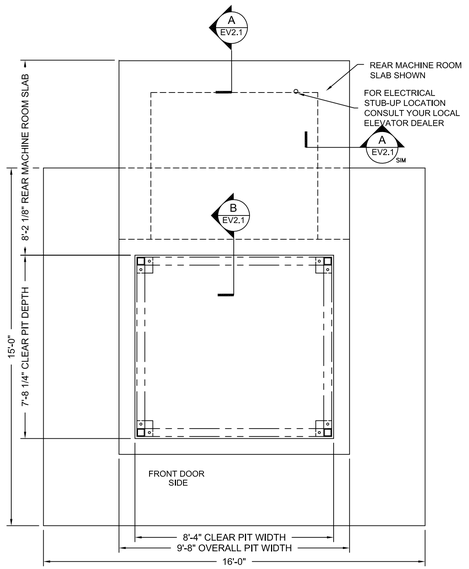
1A PLAN VIEW ELEVATOR PIT - INGROUND SYSTEM
N.T.S.

SEE GENERAL NOTE #2

This page is only for projects that have the S_{ds} Max. = 1.336

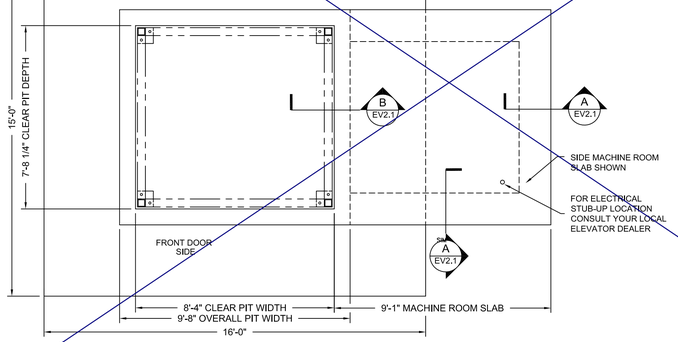


A OPTIONAL MODULAR MACHINE ROOM LOCATIONS
SCALE: NONE



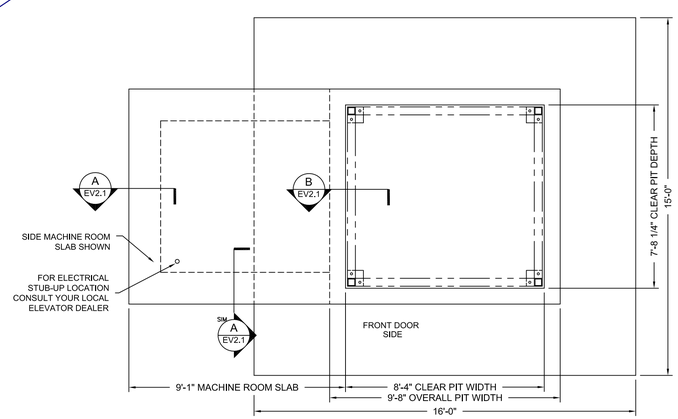
2 PLAN VIEW ELEVATOR PIT AND MACHINE ROOM SLAB
N.T.S.

REAR MACHINE ROOM ORIENTATION SHOWN
SEE GENERAL NOTE #2



3 PLAN VIEW ELEVATOR PIT AND MACHINE ROOM SLAB
N.T.S.

LEFT SIDE MACHINE ROOM ORIENTATION SHOWN
SEE GENERAL NOTE #2



4 PLAN VIEW ELEVATOR PIT AND MACHINE ROOM SLAB
N.T.S.

RIGHT SIDE MACHINE ROOM ORIENTATION SHOWN
SEE GENERAL NOTE #2

Plan views shown are for the standard size accessibility elevator system. Sheet EV2.0.0 is for a stretcher compliant elevator.

Work depicted on this drawing is not part of the hoistway mfr, elevator equipment mfr, or the elevator contractor's scope of work.

NOTES

GENERAL

1. Construct in accordance with 2022 California Building Code, Title 24, Part 2, Chapter 19A.
2. Place Machine Room Slab on side of elevator that the machine room is to be placed. See Detail A.
3. If machine room is positioned other than as shown in Detail A it shall be the responsibility of the Project Architect or Engineer of Record to design required slab.

MATERIALS

1. Concrete shall have a 28 day compressive strength of 5000 PSI. Where a site specific geotechnical report does not quanify the sulfate content in the soil, concrete shall conform to S3 Option 2 per ACI 318 Table 19.3.2.1.
2. Non-shrink grout for column base plates shall be a pre-mixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; capable of developing a minimum compressive strength of 2400 PSI in 48 hours and 7000 PSI in 28 days.
3. All reinforcing bars shall conform to ASTM A706 - Grade 60
4. Concrete aggregate shall comply with California Building Code, Title 24, Part 2, Section 1903A.
5. Maximum concrete aggregate size = 1".
6. Cement shall comply with 2022 California Building Code, Title 24, Part 2, Section 1903A Portland cement Type II/V.
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16. Masonry shall be constructed with low lift grouting per Section 2104A.5.1.2.2.
17. Min. clear distance between masonry and rebar shall be 1 rebar dia.

SITE WORK

1. All topsoil and organic material shall be removed from site.
2. A minimum of 6" of compacted fill shall be provided below the sand and vapor barrier layers below the slab on grade. Fill shall be compacted to 95%.
3. All back fill shall be compacted to 95%
4. Presumptive allowable soil bearing pressures (to be validated by geotechnical report):
   For dead and live loads = 1500 #/SF
   For seismic and wind loads = 2000 #/SF

ANCHORAGE

1. Hoistway anchorage to be cast in concrete with 20" minimum embedment. Anchorage to be per Detail F/EV2.1. Anchor rod to be ASTM F1554 Grade 105. F_U = 125 ksi.
2. Modular machine room anchorage to be expansion anchors.
   a. Expansion anchors to be Hilti Kwik Bolt TZ2 (ICC # ESR-4266), or equivalent.
      Anchors @ perimeter base plates: 3/4"Ø with a minimum effective embedment of 4-3/4".
      Anchors below hyd. pump unit: minimum 1/2"Ø with a minimum effective embedment of 3-1/2".
   b. It is acceptable for the substitution of adhesive anchors for the expansion anchors if used to anchor the base of the machine room. Adhesive anchors @ perimeter walls must use a minimum 6-1/4" effective embedment. Adhesive anchors below hyd. pump unit must use a minimum 5/8" Ø with a 4" effective embedment. The adhesive anchors are to be ASTM A36 or ASTM A307 threaded rod with Hilti HIT-RE 500 V3 Adhesive (ICC # ESR-3814).
   c. Test Loads shall be per the following Table (CBC Sect. 1910A.5.4)

A.B. TYP.	ANCHOR BOLT SIZE (INCHES)	TORQUE LOAD (FT-LBS)	TENSION (FT-LBS)
EXPANSION	1/2"	40	N/A
	3/4"	110	N/A
ADHESIVE	3/4"	N/A	11,120
	5/8"	N/A	5,860

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REGISTERED PROFESSIONAL ENGINEER
No. S2030
STRUCTURAL
STATE OF CALIFORNIA
Signed 2/23/2024

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FOUNDATION PLANS -
Sds Max. = 1.336

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REVISIONS

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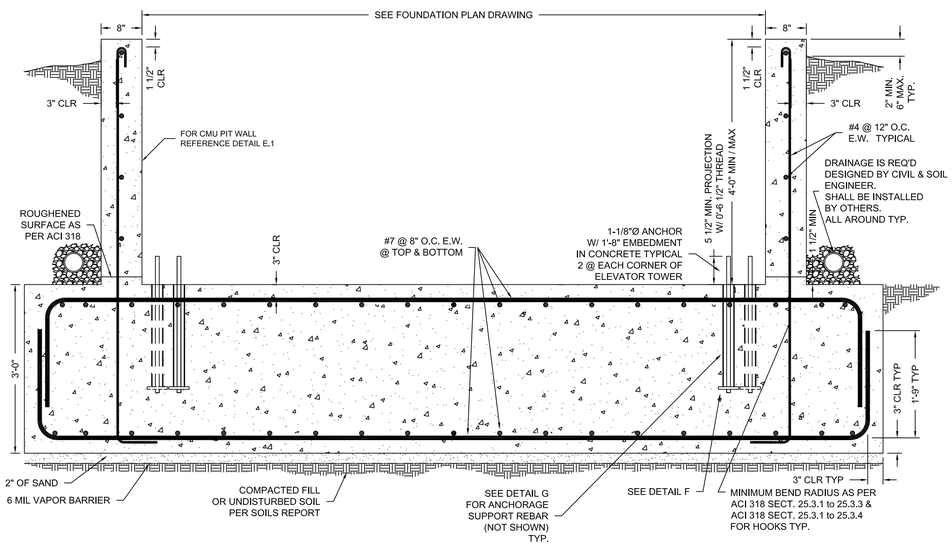
Date: 3/15/23	Drawing Scale: AS SHOWN

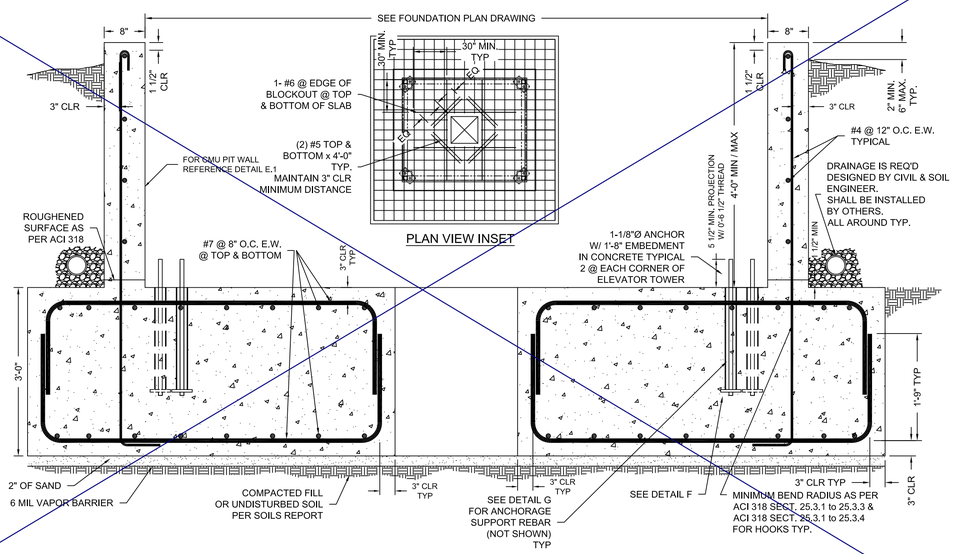
SHEET NO.
EV2.0.1-02



Concrete f'c = 5000 min

E1 PIT SECTION - HOLELESS JACK APPLICATION
N.T.S.

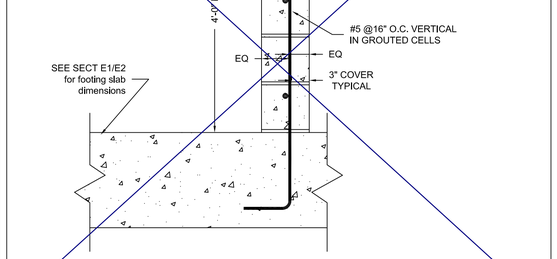
Pit walls have not been designed for surcharge loads. No surcharge loads from adjacent structures are allowed.



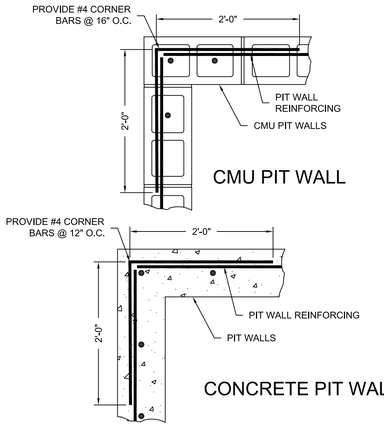
Concrete f'c = 5000 min

E2 PIT SECTION - HOLED JACK APPLICATION
N.T.S.

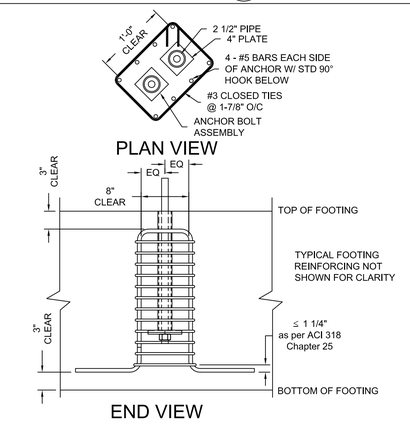
Pit walls have not been designed for surcharge loads. No surcharge loads from adjacent structures are allowed.



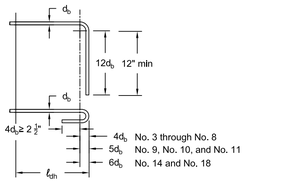
E.1 ALTERNATE: PIT SECTION W/ CMU WALL
N.T.S.



D PIT WALL FOUNDATION DETAIL
1"=1'-0"



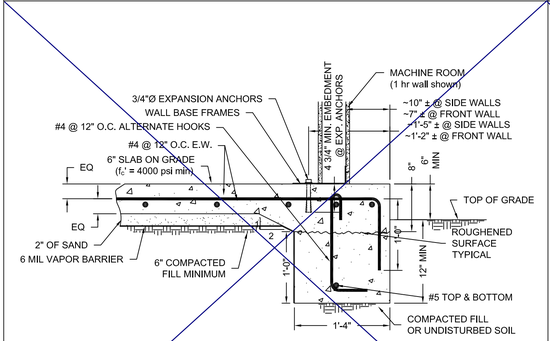
G ANCHORAGE REINFORCEMENT
1"=1'-0"



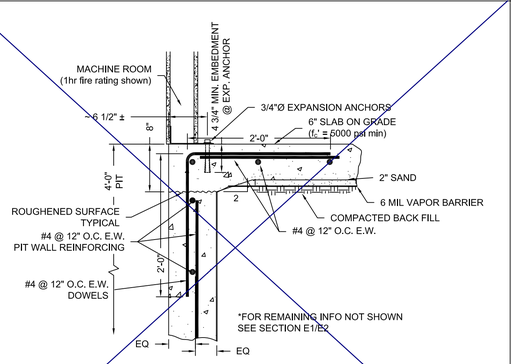
Hooked bar details for development of standard hooks.

C REBAR HOOK REFERENCE
N.T.S.

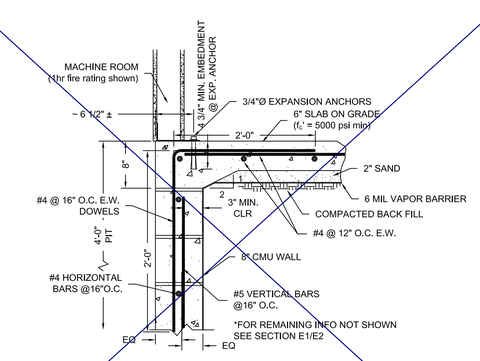
Title 8, Subchapter 6, Article 41, ASME A17.1 Section 2.2.2.3 - Permanent provisions shall be made to prevent accumulation of ground water in the pit.



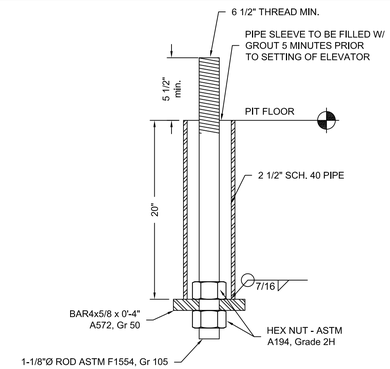
A MACHINE ROOM SLAB FOUNDATION DETAIL
1"=1'-0"



B M.R. SLAB FOUNDATION DETAIL AT PIT WALL
1"=1'-0"



B.1 ALTERNATE: M.R. SLAB FOUNDATION DETAIL AT CMU PIT WALL
1"=1'-0"



F *TYPICAL ANCHOR BOLT DETAIL*
N.T.S.

(TYPICALLY BY OTHERS - BOLT ASSEMBLY CAN BE ORDERED FROM ELEVATOR HOISTWAY MFR)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

PHOENIX MODULAR ELEVATOR

PHOENIX MODULAR ELEVATOR INC.
4800 PHOENIX DRIVE
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PHONE: (618) 244-2314 FAX: (618) 244-1923
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Consulting Structural Engineer:

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STRUCTURAL ENGINEERS, INC.
2710 Gateway Oaks Drive, Suite 190 N
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

REGISTERED PROFESSIONAL ENGINEER TARYN ERNEST FOREST No. S2030 STRUCTURAL STATE OF CALIFORNIA

Signed 2/23/2024

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APP: 02-121834 PC
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SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/28/2024

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Code: 2022 CBC
A separate project application for construction is required.
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Sheet Title:
FOUNDATION DETAILS
Work depicted on this drawing is not part of the hoistway mfr, elevator equipment mfr, or the elevator contractor's scope of work.

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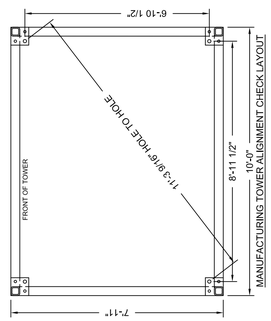
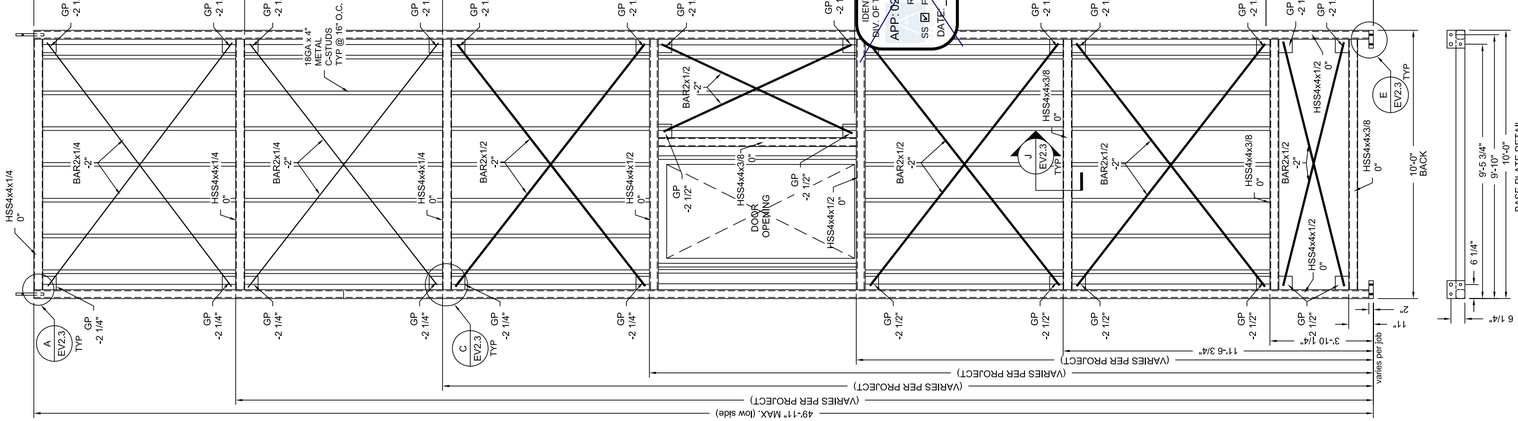
NO.	DATE	BY

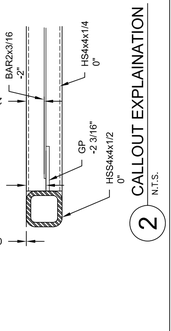
REVISIONS

Drawn By:	Checked By:
T. HOUSE	
Date: 3/15/23	Drawing Scale: AS SHOWN

SHEET NO.
EV2.1-02



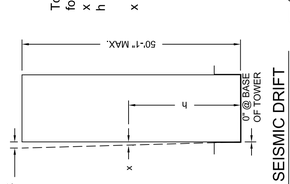




2 CALLOUT EXPLAINATION
N.T.S.

Explanation for Callouts such as HSS4x4x1/2 0"

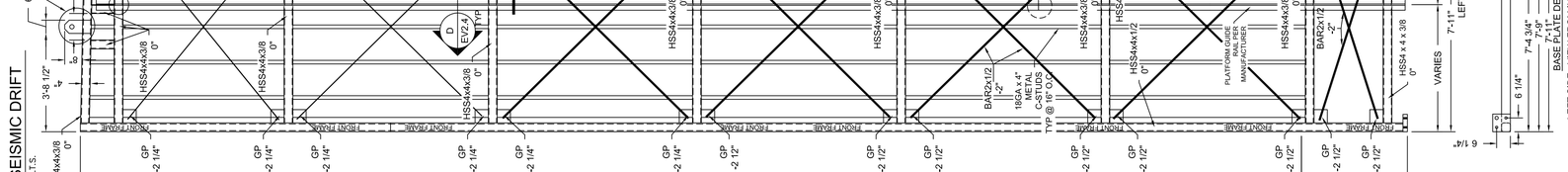
These are used for structural layout of the hoistway tower. The elevator tower is fabricated in the horizontal position. The numbers are similar to elevations. See detail below for an example.

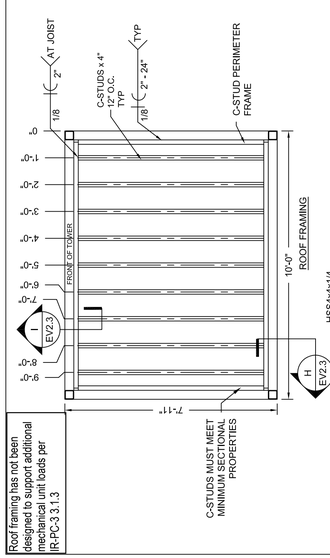


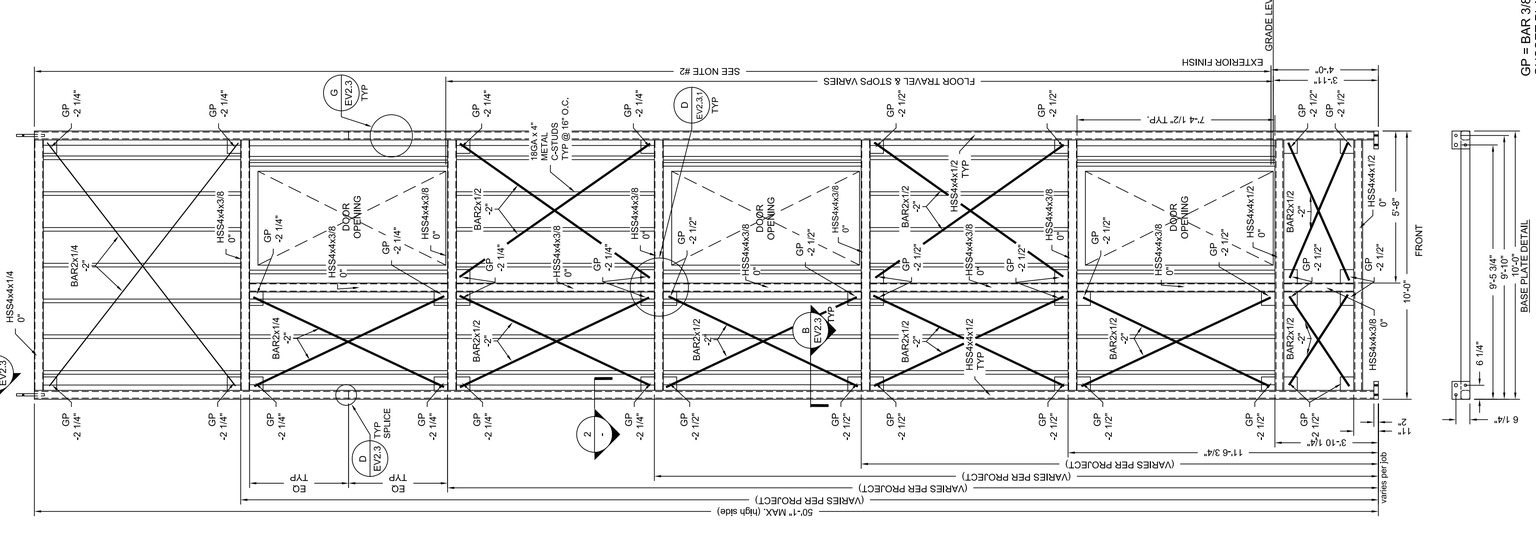
To determine your site specific drift distance use the following formula: *(deflection @ tower only)*
x = lateral separation @ elevator tower (inches)
h = height of elevator tower or at a floor (inches)

$x = h \times \frac{6"}{50'-1"}$ or 0.009983h

1 SEISMIC DRIFT
N.T.S.







NOTES:
1. This side to be covered with optional wall coverings attached to wall support framing. See drawing EV1.4 for finish details.
2. Similar to Note #1 with the exception of door openings.
3. Hoistway height designed for hydraulic elevator components. Total height determined by minimum clearances as required by Title 8.
4. All welds to be per A.W.S. D1.1 specification. Electrodes shall have a minimum tensile strength of 70 ksi and meet the requirements given in the A.W.S. D1.1 & D1.8 specifications. Welding of light gauge steel shall comply with A.W.S. D1.3. All complete joint penetration welds shall be made with a filler metal that has a minimum CVN toughness of 20ft-lbs @ 0°F & 40ft-lbs @ 70°F as determined by A.W.S. classification or Manufacturer's certification. *(P.M.E. WPS 3A-001 supporting PQR 3A-001)*
5. All structural steel tubing to conform to ASTM A500, Grade C. All other steel shall be A36 U.N.O.
6. Fabrication, Erection and Materials shall conform with the current edition of AISC 360 Chapter M and AISC 341 Chapter I.
7. Light gauge members to be ASTM A1011 with minimum yield stress of 33 ksi. PME uses ClarkDietrich 400S162-54 50 ksi G60 studs and/or 400S250-54 50 ksi G60 studs.
8. Minimum section properties for light gauge steel wall studs:
   A = 0.357in²
   I_x = 0.892 in⁴
   S_x = 0.446 in³

NOTICE:
The tower height shown is the maximum height available. All vertical dimensions are subject to change for each job specific application. Job specific drawings will be sent to the project architect or engineer for their files after the elevator hoistway has been ordered and floor travels are confirmed (field verified).

P.M.E. can provide approximate tower height for design purposes based on total floor travel and type of jack system used (holed or holeless).

*MAXIMUM FLOOR TRAVEL SCHEDULE

MAX. TOTAL TRAVEL	JACK TYPE
33'-5"	Single In-ground Jack
26'-6"	Holeless 2-Stage Telescopic Twin Jacks

MIN. TOTAL TRAVEL	
8'-2"	(INLINE) either jack type

* Subject to change based on Title 8 codes or jack manufacturer's requirements.

Projects with Sds Max. = 1.336

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REGISTERED PROFESSIONAL ENGINEER
TAYLOR ERNEST HOUSE
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

Signed
2/23/2024

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
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PC-02-121834

Sheet Title:
ELEVATOR HOISTWAY STRUCTURAL
STRETCHER COMPLIANT ELEVATOR SYSTEM
Sds Max. = 1.336

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REVISIONS

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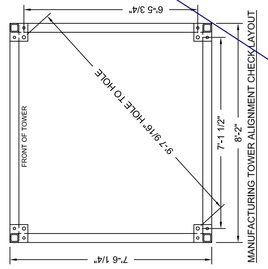
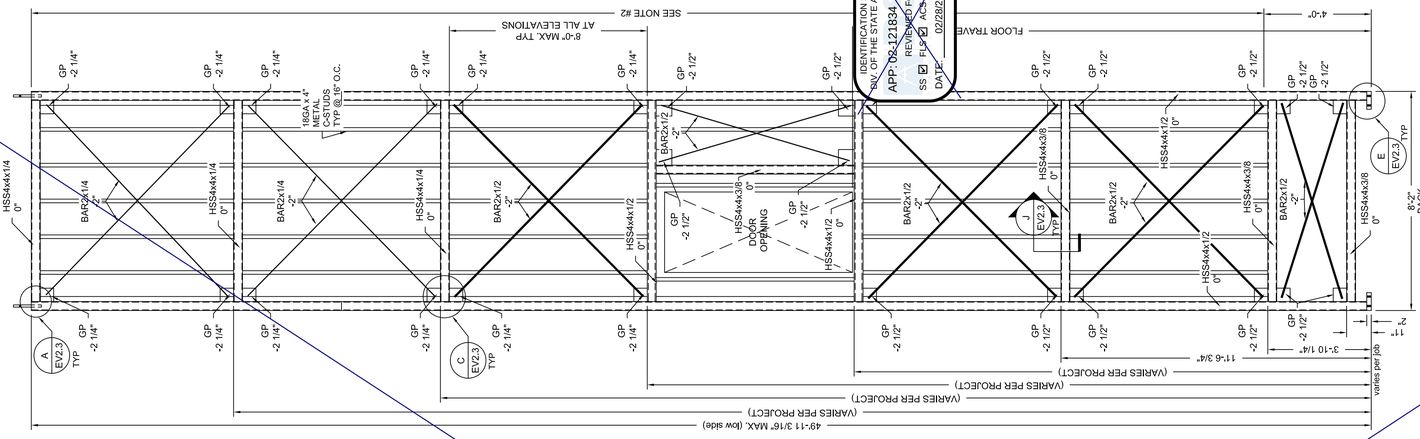
T. HOUSE	
Date: 3/15/23	Drawing Scale: AS SHOWN

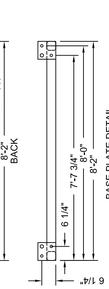
SHEET NO.
EV2.2.0-02



MANUFACTURING TOWER ALIGNMENT CHECK LAYOUT



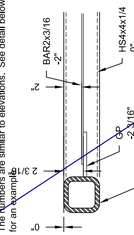
BACK SIDE - VIEW FROM INSIDE HOISTWAY
SCALE: 3/8" = 1'-0"



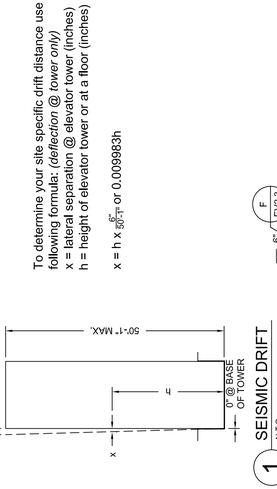
BASE PLATE DETAIL

Explanation for Callouts such as HSS4x4x1/2"
0"

These are used for structural layout of the hoistway tower. The elevator tower is fabricated in the horizontal position. The numbers are similar to elevations. See detail below for an example.



2 CALLOUT EXPLAINATION
N.T.S.



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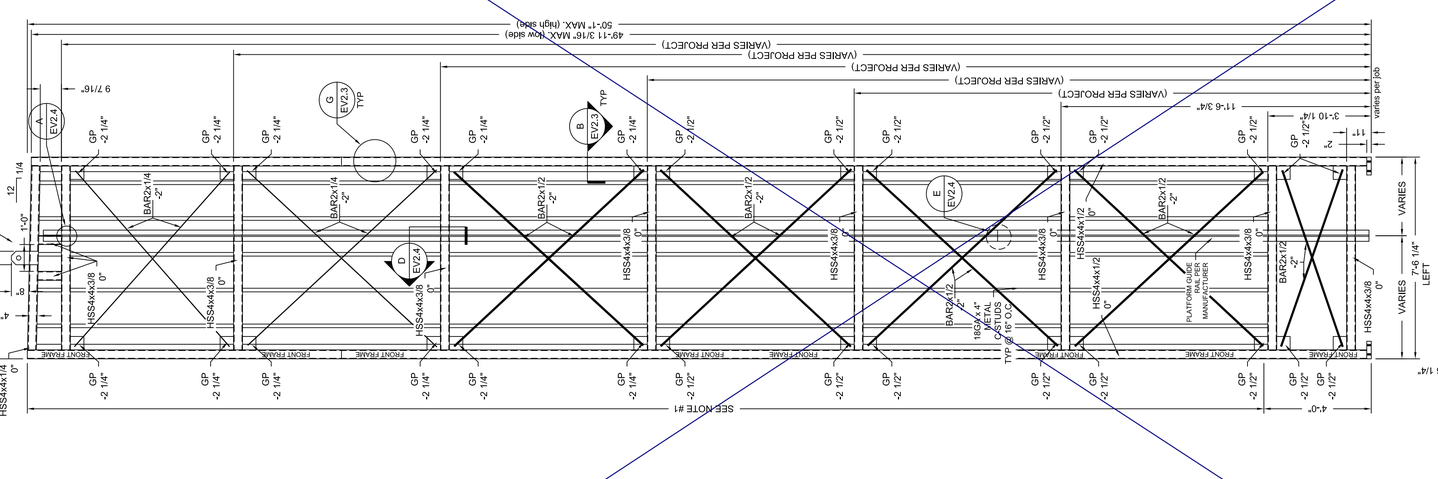
N.T.S.



FRONT SIDE - VIEW FROM INSIDE HOISTWAY
SCALE: 3/8" = 1'-0"

BASE PLATE DETAIL

GP = BAR 3/8x6x0'-6" A36 TYP
GUSSET PLATE

Roof framing has not been designed to support additional mechanical unit loads per IR-PC-3 3.3

C-STUDS MUST MEET MINIMUM SECTIONAL PROPERTIES

NOTES:
1. This side to be covered with optional wall coverings attached to wall support framing. See drawing EV1.4 for finish details.
2. Similar to Note #1 with the exception of door openings.
3. Hoistway height designed for hydraulic elevator components. Total height determined by minimum clearances as required by Title 8.
4. All welds to be per A.W.S. D1.1 specification. Electrodes shall have a minimum tensile strength of 70 ksi and meet the requirements given in the A.W.S. D1.1 & D1.8 specifications. Welding of light gauge steel shall comply with A.W.S. D1.3. All complete joint penetration welds shall be made with a filler metal that has a minimum CVN toughness of 20ft-lbs @ 0°F & 40ft-lbs @ 70°F as determined by A.W.S. classification or Manufacturer's certification. *(P.M.E. WPS 3A-001, supporting PQR (A-001))*
5. All structural steel tubing to conform to ASTM A500, Grade C. All other steel shall be A36 U.N.O.
6. Fabrication, Erection and Materials shall conform with the current edition of AISC 360 Chapter M and AISC 341 Chapter I.
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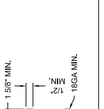
8. Minimum section properties for light gauge steel wall studs:
   $A = 0.357 in^2$
   $I_x = 0.892 in^4$
   $S_x = 0.446 in^3$



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P.M.E. can provide approximate tower height for design purposes based on total floor travel and type of jack system used (holed or holeless).

*MAXIMUM FLOOR TRAVEL SCHEDULE		
MAX. TOTAL TRAVEL	JACK TYPE	
33'-5"	Single In-ground Jack	
26'-6"	Holeless 2-Stage Telescopic Twin Jacks	
MIN. TOTAL TRAVEL		either jack type
8'-2" (INLINE)	either jack type	based on Title 8 codes or jack manufacturer's

* Subject to change based on Title 8 codes or jack manufacturer's requirements.

Projects with Sds Max. = 1.336 or less only

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REGISTERED PROFESSIONAL ENGINEER
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

Signed
2/23/2024

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Sheet Title:
ELEVATOR HOISTWAY STRUCTURAL

Sds = 1.336

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REVISIONS		

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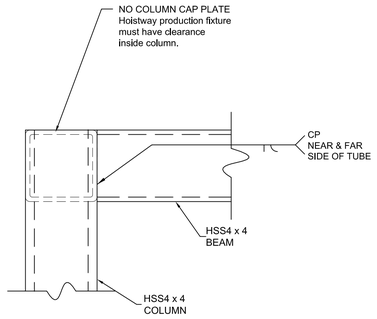
Checked By:
Date: 3/15/23
Drawing Scale: AS SHOWN
SHEET NO.

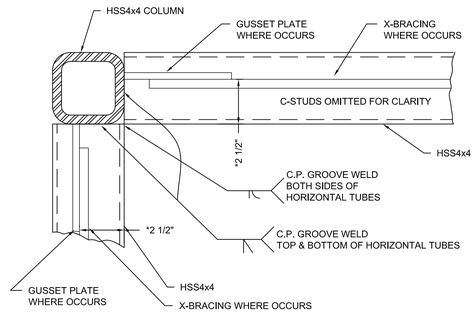
EV2.2.1-02



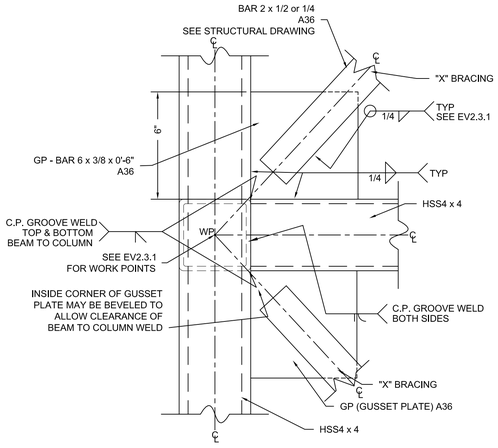
A COLUMN DETAIL
3" = 1'-0"

" = 2 1/2" DIMENSION IS FOR 1/2" BRACING, FOR 1/4" BRACING DIMENSION IS 2 1/4". SEE SHT EV2.2 FOR BRACING THICKNESS.

WALL FRAMING NOT SHOWN. C-STUDS SLOTTED FOR X-BRACING. ALLOWED PUNCH OUT / SLOT SIZE = HALF THE MEMBER DEPTH (d/2) OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH = 4 1/2" *AS PER AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.*



B FRAMING DETAIL
3" = 1'-0"



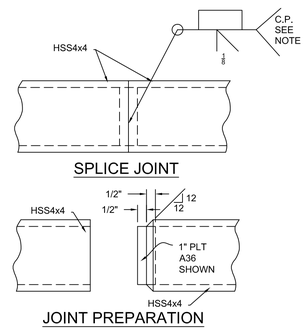
C BRACING DETAIL
3" = 1'-0"

Splice design for 1/4", 3/8" or 1/2" thick HSS4x4 columns or beams. One splice per column/beam allowed.

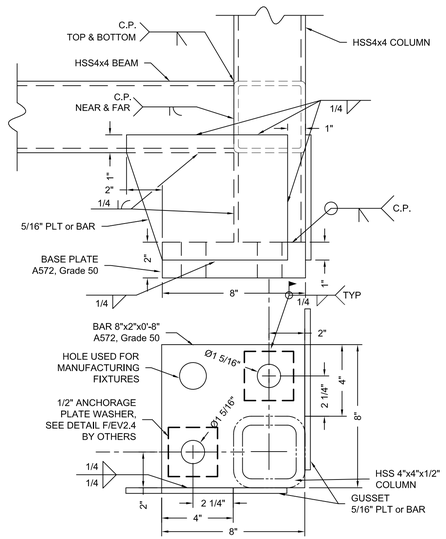
Column splices typically required if mill length is unavailable for total hoistway length.

NOTE: Material and dimension of backing as specified.

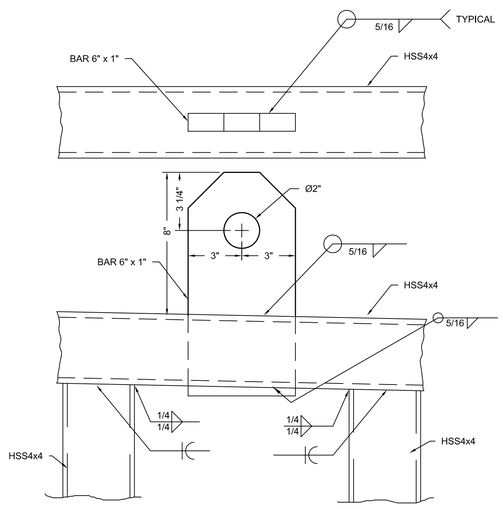
Per AWS D1.1 3/8 x 1 1/2 backer bar continuous or 1" plate.



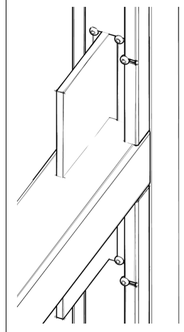
D TYPICAL SPLICE DETAIL
3" = 1'-0"

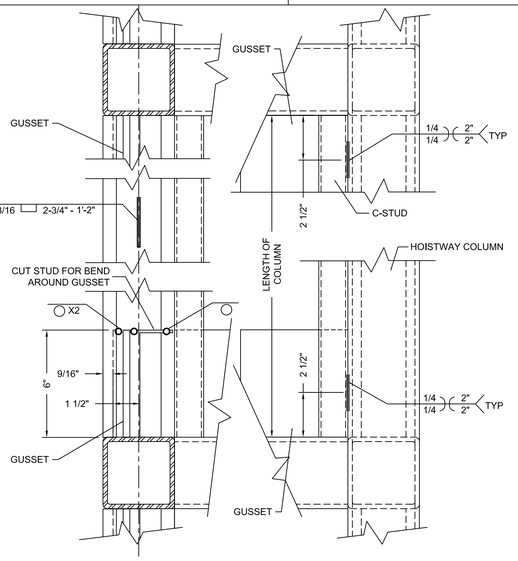


E BASE PLATE DETAIL
3" = 1'-0"

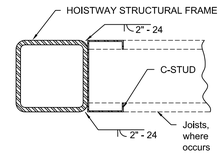


F LIFTING LUG DETAIL
3" = 1'-0"

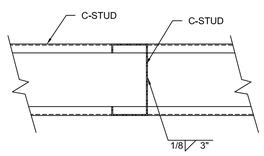




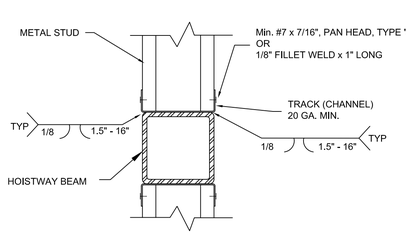
G COLUMN FRAMING DETAIL
3" = 1'-0"



H ROOF FRAMING DETAIL
3" = 1'-0"

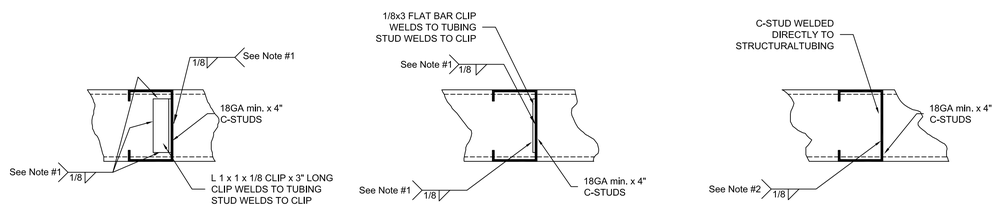


I ROOF FRAMING DETAIL
3" = 1'-0"



J WALL FRAMING DETAIL
3" = 1'-0"

SEE K / EV2.3 FOR ALTERNATE CONNECTION DETAILS



METHOD #1
ANGLE CLIP

METHOD #2
FLAT BAR CLIP

METHOD #3
NO CLIP

NOTE:
#1 - 2" MIN. TOTAL WELD REQ'D AT ALL CLIP TO C-STUD OR MEMBER CONNECTIONS.
#2 - 2" MIN. TOTAL WELD REQ'D AT C-STUD TO C-STUD AND C-STUD TO MEMBER CONNECTIONS WHERE NO CLIP IS USED.

K WALL FRAMING DETAILS - ALTERNATE C-STUD CONNECTION METHODS
3" = 1'-0"

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PHOENIX MODULAR ELEVATOR

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www.cyseng.com

REGISTERED PROFESSIONAL ENGINEER
TARYN ERNEST HORST
No. S2030
STRUCTURAL
STATE OF CALIFORNIA
Signed 2/23/2024

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Sheet Title:
ELEVATOR HOISTWAY - STRUCTURAL DETAILS

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REVISIONS

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3/15/23	AS SHOWN

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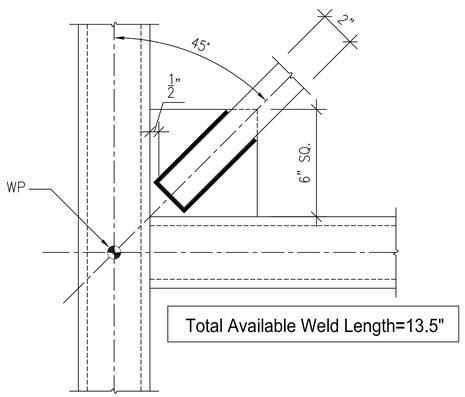
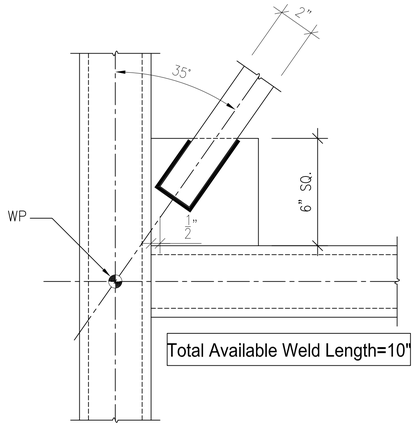
EV2.3-02



Total Available Weld Length=13.5"

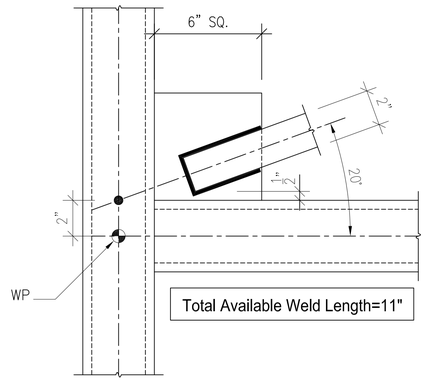
1



Total Available Weld Length=10"

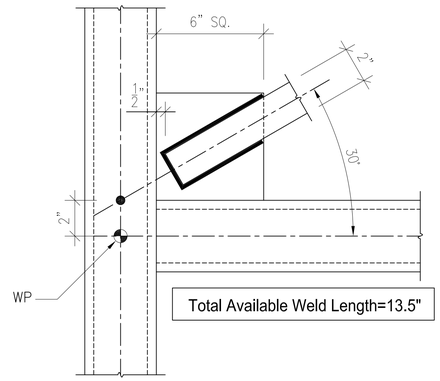
2

A THRU WORK POINT



Total Available Weld Length=11"

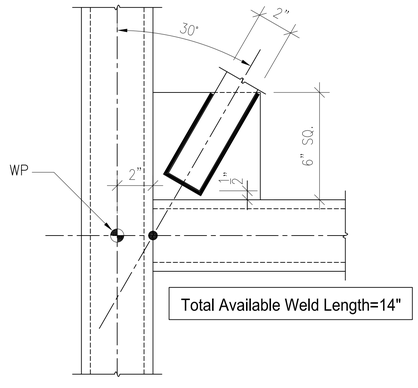
1



Total Available Weld Length=13.5"

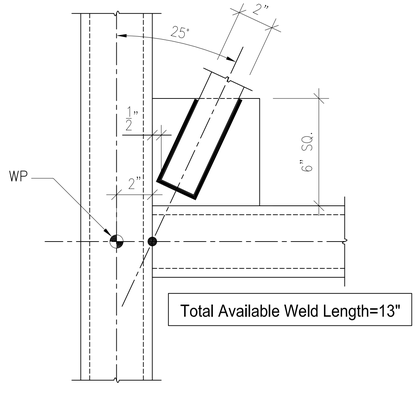
2

C 2" VERTICAL OFFSET FROM WORK POINT



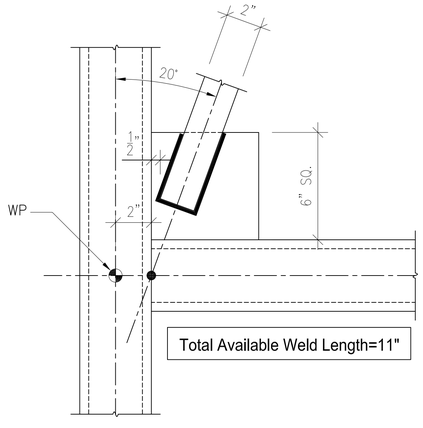
Total Available Weld Length=14"

1



Total Available Weld Length=13"

2

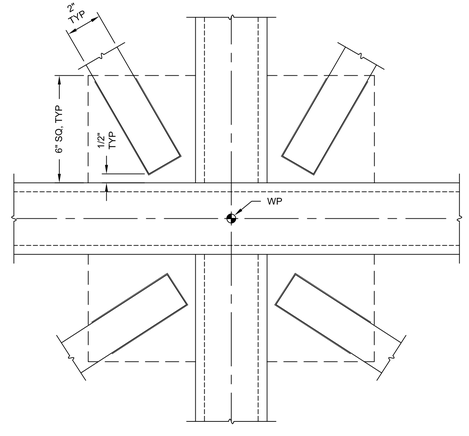


Total Available Weld Length=11"

3

B 2" HORIZONTAL OFFSET FROM WORK POINT

NOTES:
1. GUSSET & STRAPS AS OCCUR PER ELEVATIONS ON EV2.2.0 OR EV2.2.1.
2. SEE DETAILS A / EV3.2.1, B / EV3.2.1 OR C / EV3.2.1 FOR INDIVIDUAL STRAP ANGLES AND WP OFFSETS



D AT INTERSECTION

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STATE OF CALIFORNIA

Signed
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Sheet Title:
WORKPOINT DETAILS

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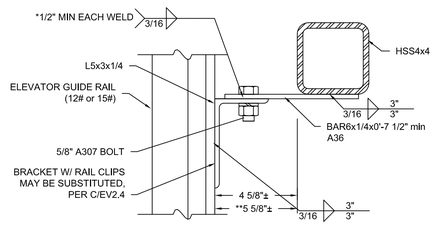
SHEET NO.

EV2.3.1-02

As per Title 8, Chapter 4, Subchapter 6. Elevator Safety Orders: Guide rails shall be secured to their brackets by clips, welds, or bolts.

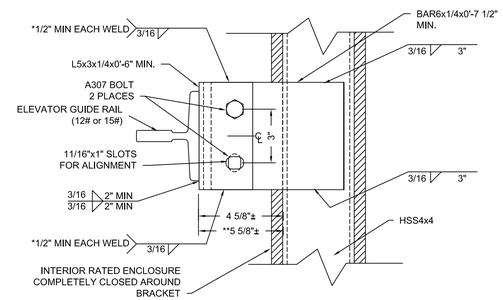


12# rail minimum, 15# rail maximum

A UPPER RAIL BRACKET DETAIL
SCALE: 3" = 1'-0"

* Welds are for holding alignment during shipment and installation. If rails require onsite re-alignment, welds are to be removed as required.
** For the stretcher compliant elevator

As per Title 8, Chapter 4, Subchapter 6. Elevator Safety Orders: Guide rails shall be secured to their brackets by clips, welds, or bolts.

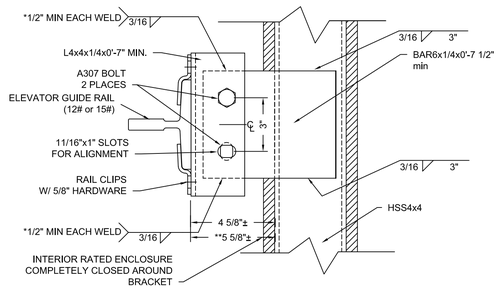


12# rail minimum, 15# rail maximum

B RAIL BRACKET DETAIL - TOP VIEW
SCALE: 3" = 1'-0"

* Welds are for holding alignment during shipment and installation. If rails require onsite re-alignment, welds are to be removed as required.
** For the stretcher compliant elevator

As per Title 8, Chapter 4, Subchapter 6. Elevator Safety Orders: Guide rails shall be secured to their brackets by clips, welds, or bolts.

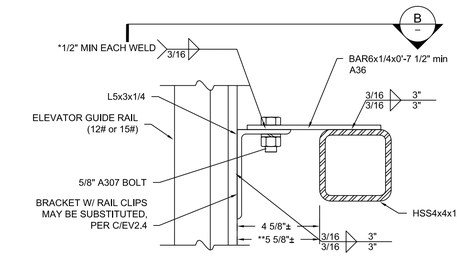


12# rail minimum, 15# rail maximum

C ALTERNATE: RAIL BRACKET DETAIL - TOP VIEW
SCALE: 3" = 1'-0"

* Welds are for holding alignment during shipment and installation. If rails require onsite re-alignment, welds are to be removed as required.
** For the stretcher compliant elevator

As per Title 8, Chapter 4, Subchapter 6. Elevator Safety Orders: Guide rails shall be secured to their brackets by clips, welds, or bolts.

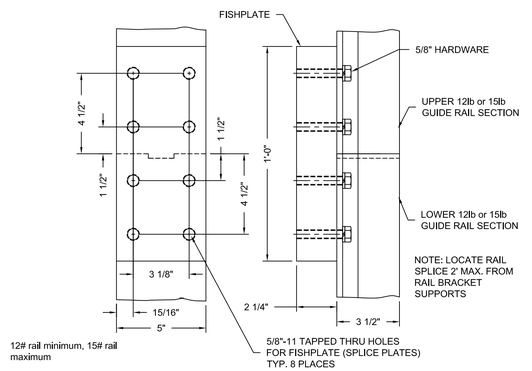


12# rail minimum, 15# rail maximum

D RAIL BRACKET DETAIL
SCALE: 3" = 1'-0"

* Welds are for holding alignment during shipment and installation. If rails require onsite re-alignment, welds are to be removed as required.
** For the stretcher compliant elevator

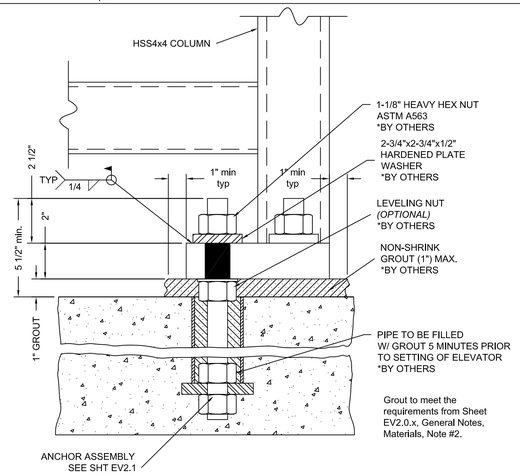
As per Title 8, Chapter 4, Subchapter 6. Elevator Safety Orders: Metal guide rails shall be joined together by fishplates as specified in Subchapter 6.



12# rail minimum, 15# rail maximum

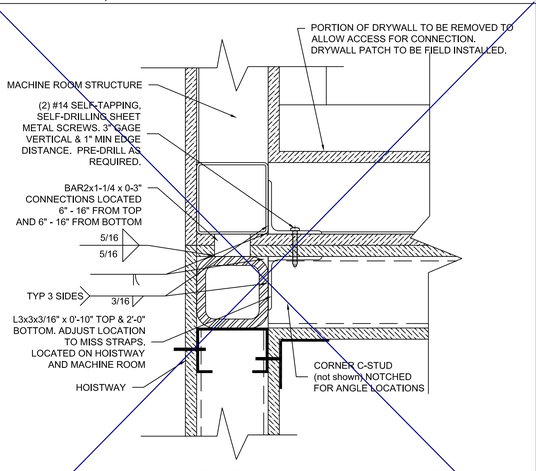
Equipment shown from elevator equipment mfr.

E GUIDE RAIL SPLICE DETAIL
SCALE: 3" = 1'-0"

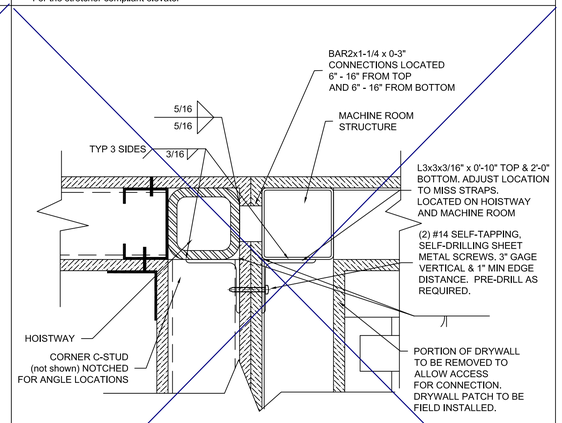


F CONSTRUCTION DETAIL
SCALE: 3" = 1'-0"

* By others - Not be hoistway mfr, elevator equipment mfr, or elevator contractor

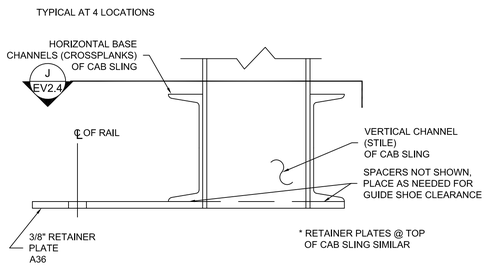


G MACHINE ROOM CONNECTION DETAIL
SCALE: 3" = 1'-0"



H MACHINE ROOM CONNECTION DETAIL
SCALE: 3" = 1'-0"

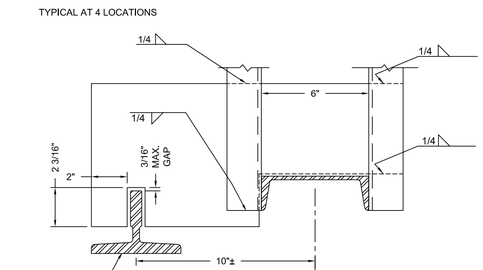
TYPICAL AT 4 LOCATIONS



Retainer Plates as per CBC Section 1617A.1.28- ASCE 7, Section 13.6.11.4, and as per Title 8, Chapter 4, Sub-chapter 6, Rule 3141.13.

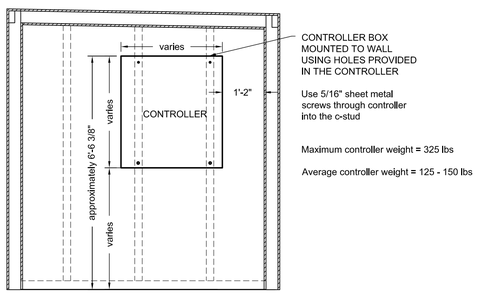
I RETAINER PLATE - SIDE VIEW
SCALE: 3" = 1'-0"

TYPICAL AT 4 LOCATIONS



Retainer Plates as per CBC Section 1617A.1.28 - ASCE 7, Section 13.6.11.4, and as per Title 8, Chapter 4, Sub-chapter 6, Rule 3141.13.

J RETAINER PLATE - TOP VIEW
SCALE: 3" = 1'-0"

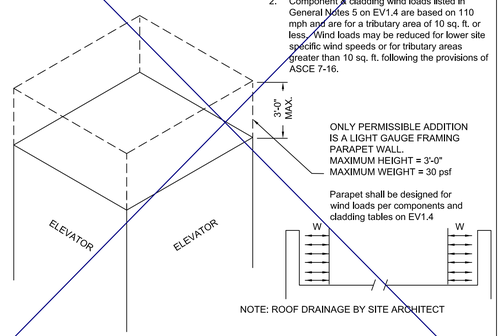


Controller size varies between controller manufacturers and as per site specific conditions. Controller installation method shown is factory mounted by PME. If elevator equipment is supplied or installed by others, they must supply site specific details.

K CONTROLLER INSTALLATION DETAIL
SCALE: 1/2"=1'-0"

Note:
This detail depicts permissible, pre-engineered constraints for adding elements to the elevator hoistway. It is the project architect's / engineer's responsibility to properly detail and include into the project plans. All work to be done/supplied by others and not by the hoistway mfr, elevator equipment mfr, or the elevator contractor.

Notes for site specific SEOR:
1. See Sht. EV0.0 for PC wind design criteria
2. Component & cladding wind loads listed in General Notes 5 on EV1.4 are based on 110 mph and are for a tributary area of 10 sq. ft. or less. Wind loads may be reduced for lower site specific wind speeds or for tributary areas greater than 10 sq. ft. following the provisions of ASCE 7-16.



PARAPET WALL OPTION @ ELEVATOR TOWER

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Sheet Title:
ELEVATOR HOISTWAY - MISCELLANEOUS DETAILS

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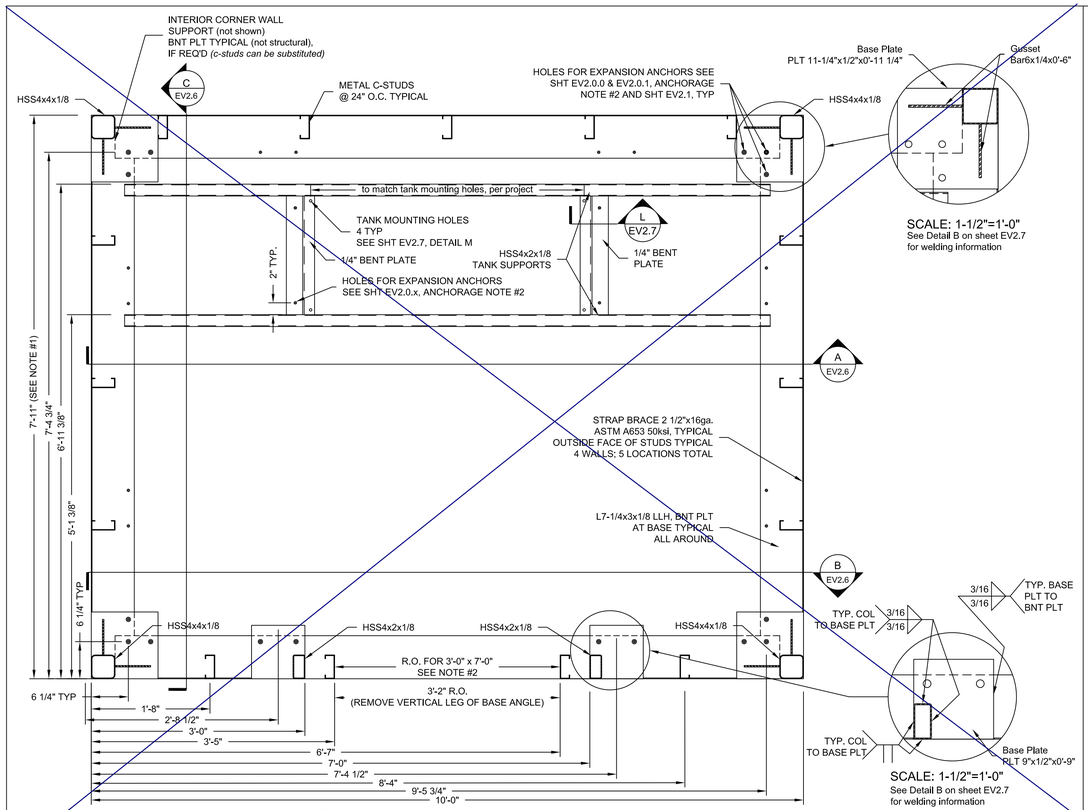
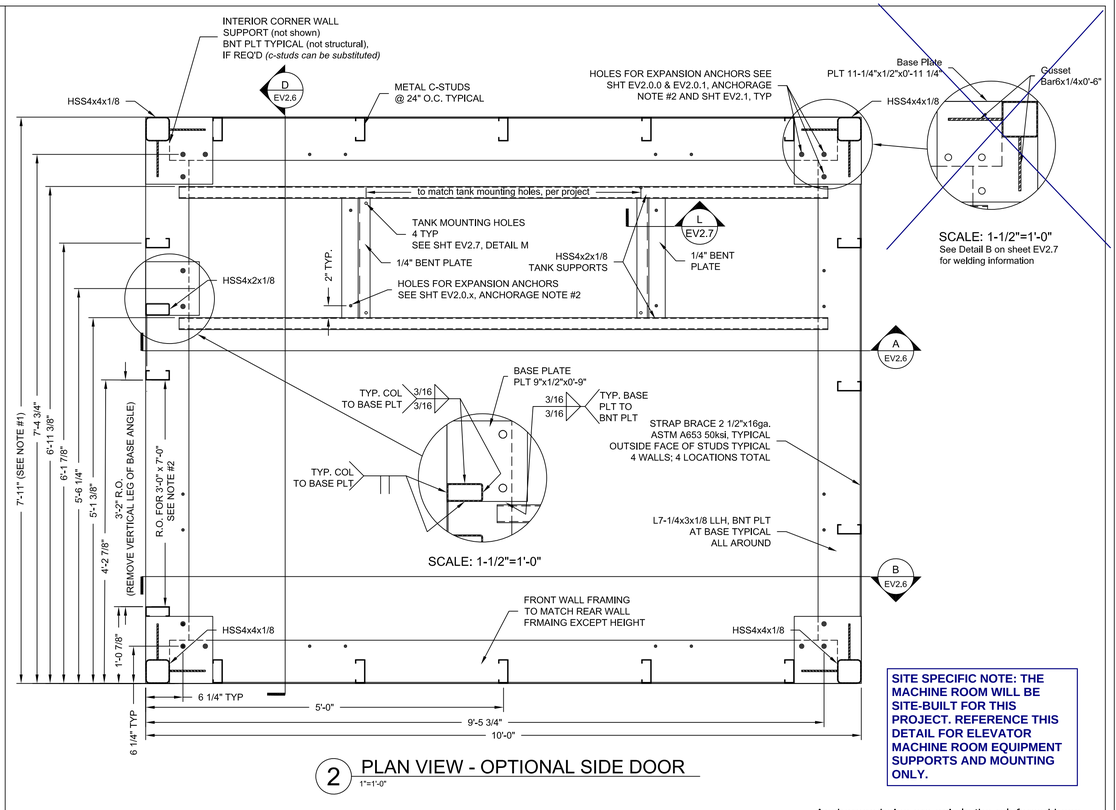


1 PLAN VIEW
1"=1'-0"

Anchorage holes are only in the reinforced base plates, disregard all other holes. L7-1/4x3x1/8 bent plates are made universal.



2 PLAN VIEW - OPTIONAL SIDE DOOR
1"=1'-0"

SITE SPECIFIC NOTE: THE MACHINE ROOM WILL BE SITE-BUILT FOR THIS PROJECT. REFERENCE THIS DETAIL FOR ELEVATOR MACHINE ROOM EQUIPMENT SUPPORTS AND MOUNTING ONLY.

Anchorage holes are only in the reinforced base plates, disregard all other holes. L7-1/4x3x1/8 bent plates are made universal.

CONFIGURATION AS SHOWN

CONFIGURATION AS SHOWN

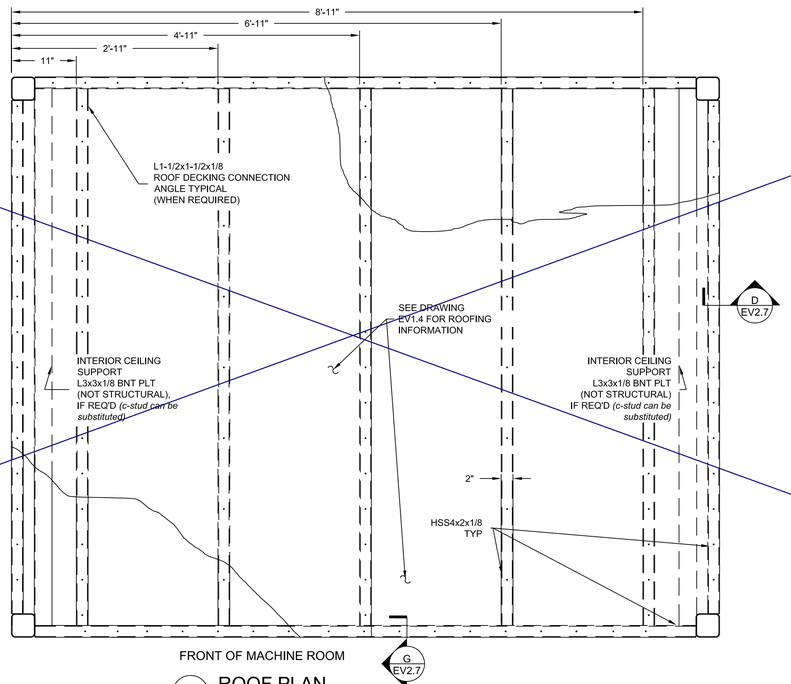
CONFIGURATION - MIRROR IMAGE

ARCHITECTS, ENGINEERS, OR CONTRACTORS - Select the appropriate configuration for your project and mark the box. DSA requires the other options crossed out.

NOTES:

1. Sides to be covered with wall coverings attached to wall support framing. See drawing EV1.4 for details.
2. Door rough opening is subject to change based on requirements of door frame mfr.
3. All welds to be per A.W.S. D1.1 & D1.3 specification. Electrodes shall have a minimum tensile strength of 70 ksi and meet the requirements given in the A.W.S. D1.1 specification. Welding of light gauge steel shall comply with A.W.S. D1.3. All complete joint penetration welds shall be made with a filler metal that has a minimum CVN toughness of 20ft-lbs @ minus 20°F, as determined by A.W.S. classification or Manufacturer's certification. *(P.M.E. WPS IA-001, supporting PQR IA-001)*
4. Fabrication, Erection and Materials shall conform with the current edition of AISC 360 Chapter M and AISC 341 Chapter I.
5. All structural steel tubing to conform to ASTM A500, Grade C. All other steel shall be A36. Strap bracing to conform to ASTM A653 50ksi.
6. Light gauge members to be ASTM A1011 with minimum yield stress of 33 ksi. PME uses ClarkDietrich 400S162-54 50 ksi G60 studs and/or 400S250-54 50 ksi G60 studs.
7. Minimum section properties for light gauge steel wall studs:

$A = 0.357 in^2$
$I_x = 0.892 in^4$
$S_x = 0.446 in^3$



3 ROOF PLAN
1"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER TRAVIS ERNEST FOSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

Signed 2/23/2024

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Sheet Title:
MODULAR MACHINE ROOM STRUCTURAL
Stretcher Compliant Elevator System

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Date:	Drawing Scale:
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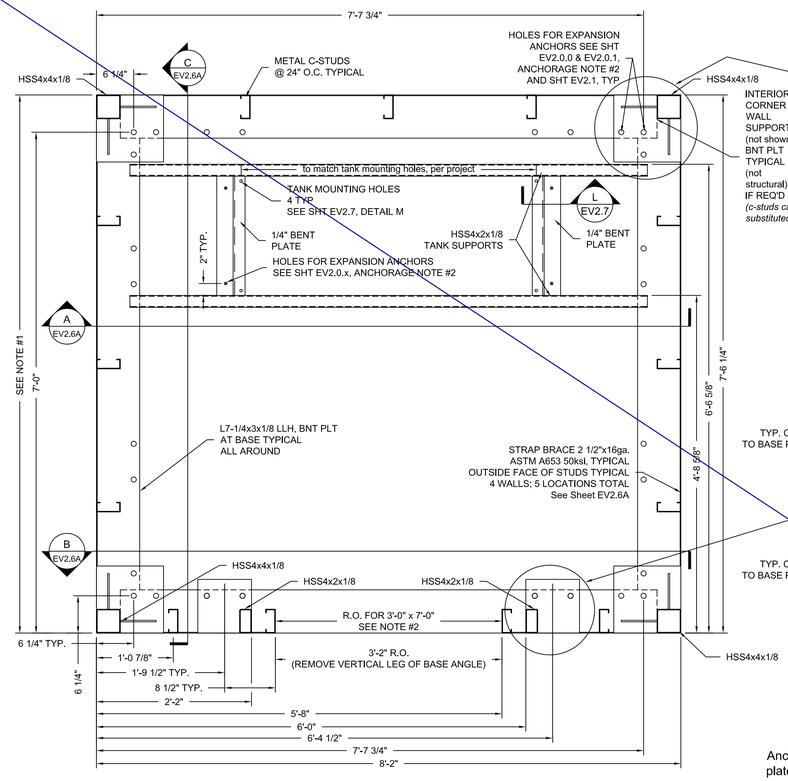
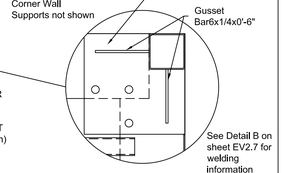
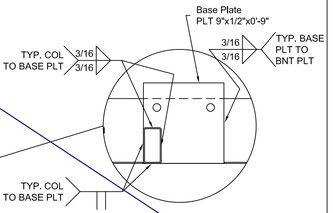


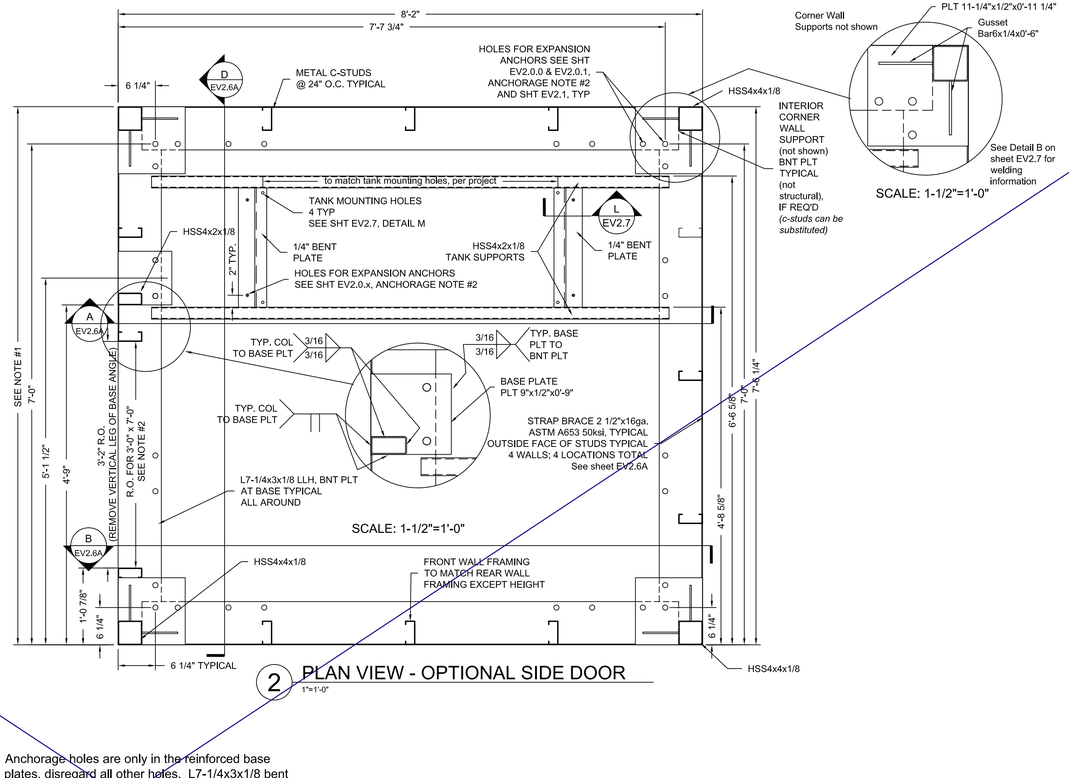
1 PLAN VIEW
1"=1'-0"



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



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



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

2 PLAN VIEW - OPTIONAL SIDE DOOR
1"=1'-0"

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

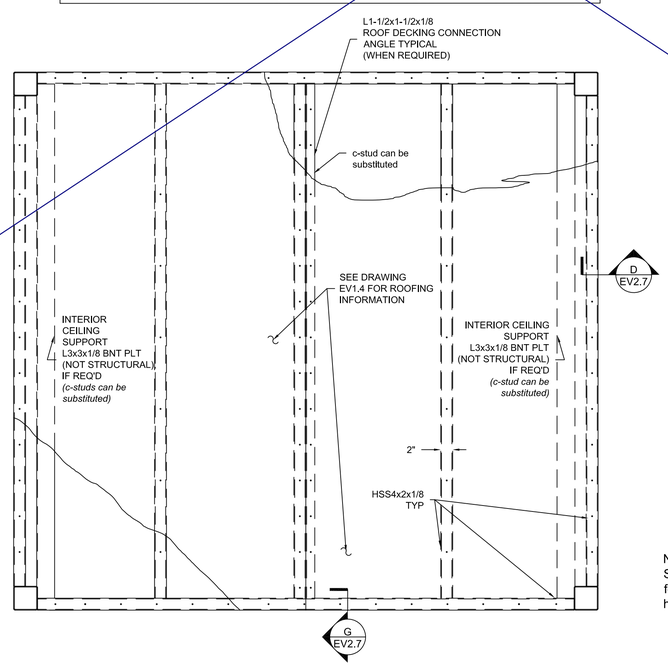
Anchorage holes are only in the reinforced base plates, disregard all other holes. L7-1/4x3x1/8 bent plates are made universal.

CONFIGURATION AS SHOWN

Anchorage holes are only in the reinforced base plates, disregard all other holes. L7-1/4x3x1/8 bent plates are made universal.

CONFIGURATION AS SHOWN
CONFIGURATION - MIRROR IMAGE

ARCHITECTS, ENGINEERS, OR CONTRACTORS -
Select the appropriate configuration for your project and mark the box. DSA requires the other options crossed out.



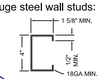
FRONT OF MACHINE ROOM

3 ROOF PLAN
1"=1'-0"

Note:
See Details G & H / EV2.4
for connections to
hoistway structure

NOTES:
1. Sides to be covered with wall coverings attached to wall support framing. See drawing EV1.4 for details.
2. Door rough opening is subject to change based on requirements of door frame mfr.
3. All welds to be per A.W.S. D1.1 & D1.3 specification. Electrodes shall have a minimum tensile strength of 70 ksi and meet the requirements given in the A.W.S. D1.1 specification. Welding of light gauge steel shall comply with A.W.S. D1.3. All complete joint penetration welds shall be made with a filler metal that has a minimum CVN toughness of 20ft-lbs @ minus 20°F, as determined by A.W.S. classification or Manufacturer's certification. *(P.M.E. WPS IA-001, supporting PQR IA-001).*
4. Fabrication, Erection and Materials shall conform with the current edition of AISC 360 Chapter M and AISC 341 Chapter I.
5. All structural steel tubing to conform to ASTM A500, Grade C. All other steel shall be A36. Strap bracing to conform to ASTM A653 50ksi.
6. Light gauge members to be ASTM A1011 with minimum yield stress of 33 ksi. PME uses ClarkDietrich 400S162-54 50 ksi G60 studs and/or 400S250-54 50 ksi G60 studs.
7. Minimum section properties for light gauge steel wall studs:

$A = 0.357 in^2$
$I_x = 0.892 in^4$
$S_x = 0.446 in^3$



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DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
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SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

PHOENIX MODULAR ELEVATOR

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4800 PHOENIX DRIVE
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REGISTERED PROFESSIONAL ENGINEER
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

Signed
2/23/2024

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DATE: 02/28/2024

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Code: 2022 CBC
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Sheet Title:
MODULAR MACHINE ROOM STRUCTURAL

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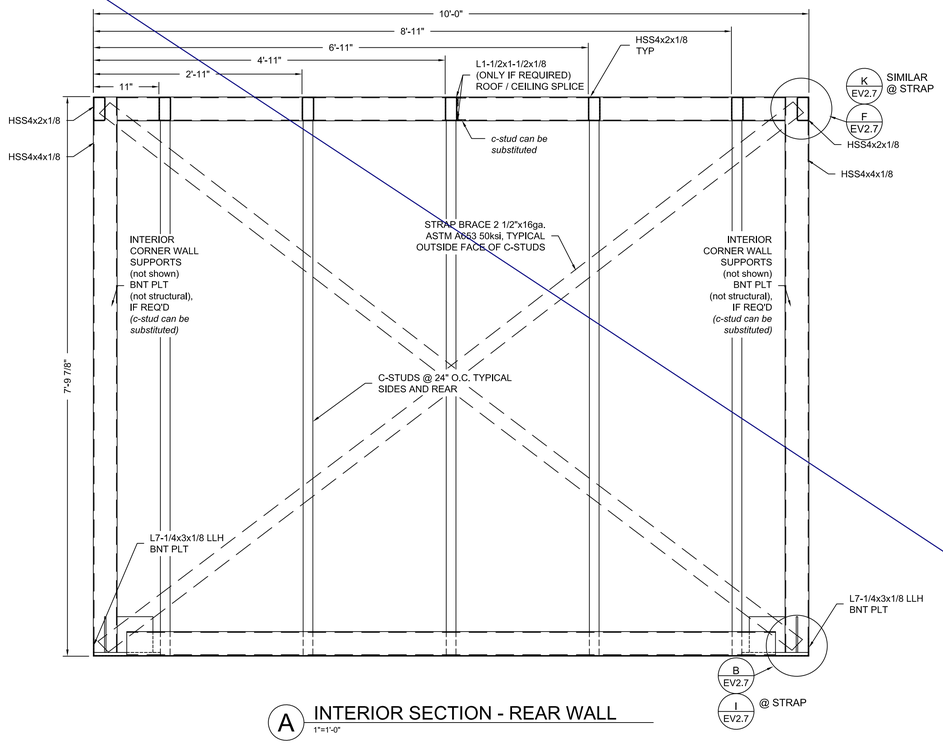
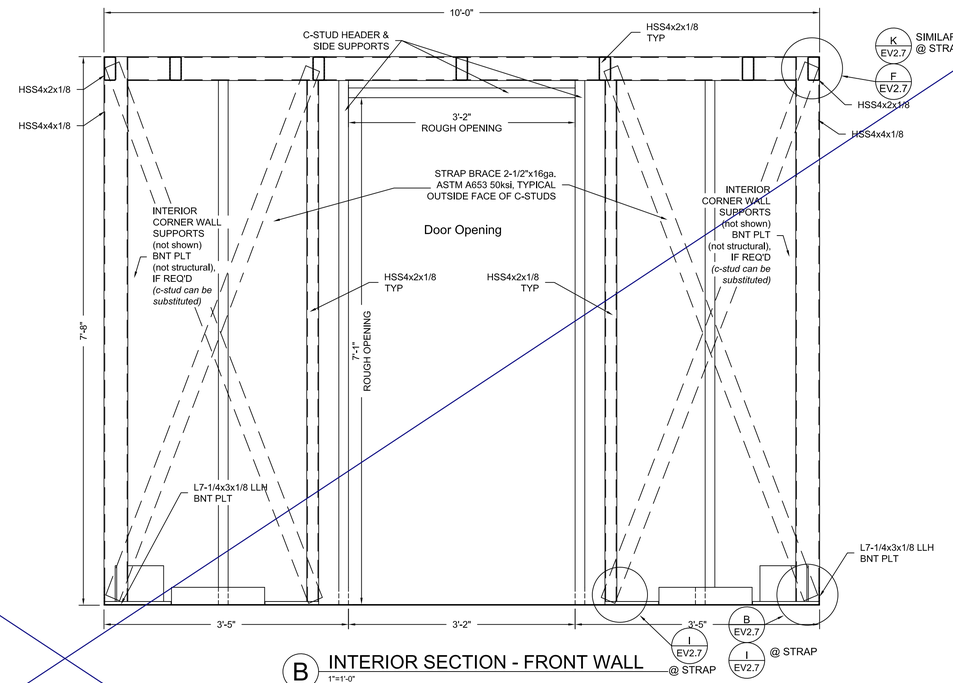
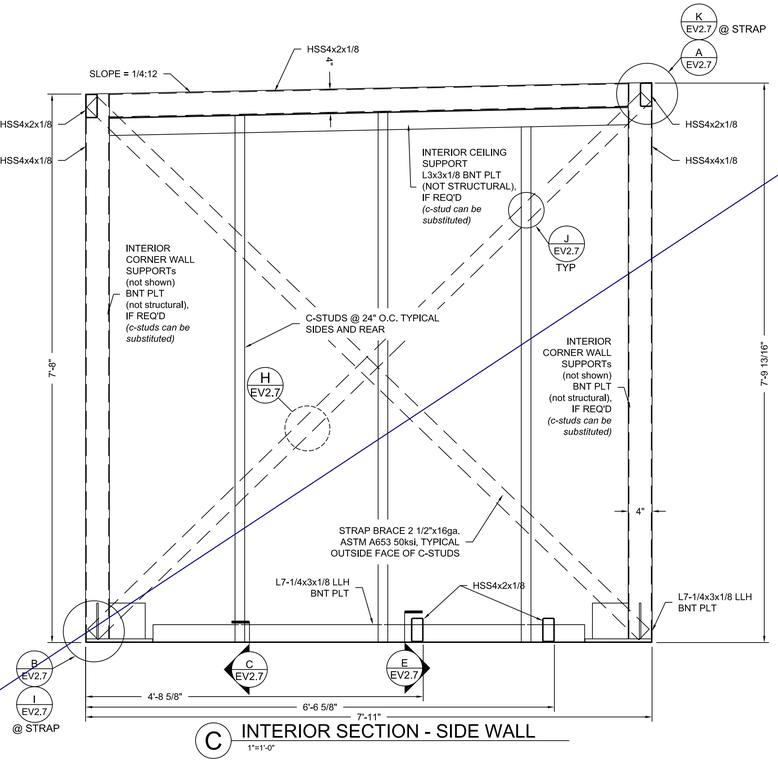
EV2.5A-02



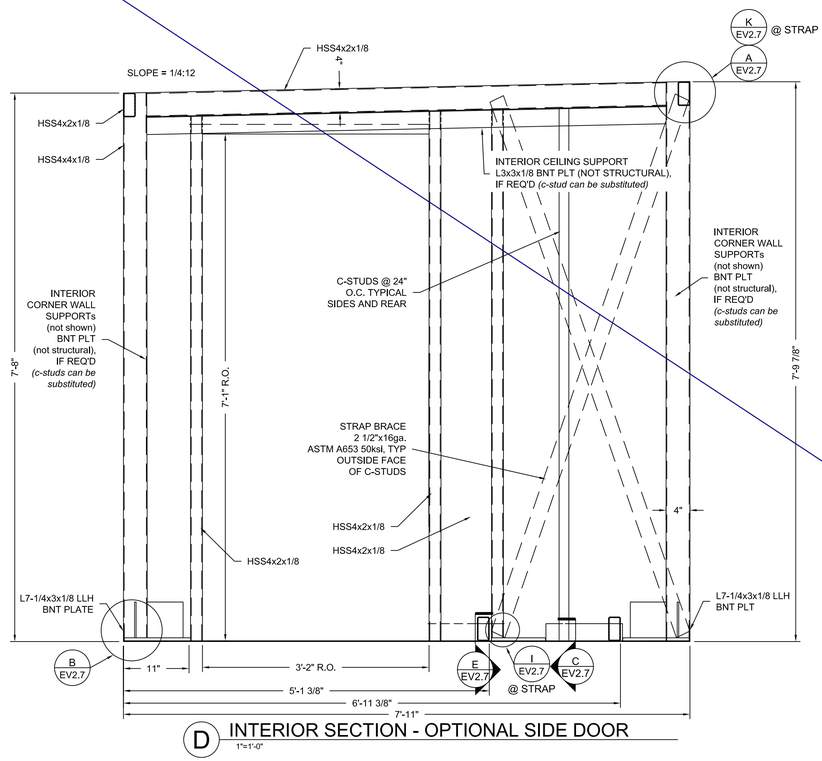
A INTERIOR SECTION - REAR WALL
1"=1'-0"



B INTERIOR SECTION - FRONT WALL
1"=1'-0"



C INTERIOR SECTION - SIDE WALL
1"=1'-0"



D INTERIOR SECTION - OPTIONAL SIDE DOOR
1"=1'-0"

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2/23/2024

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Sheet Title:
MODULAR MACHINE ROOM STRUCTURAL SECTION VIEWS
Stretcher Compliant Elevator System

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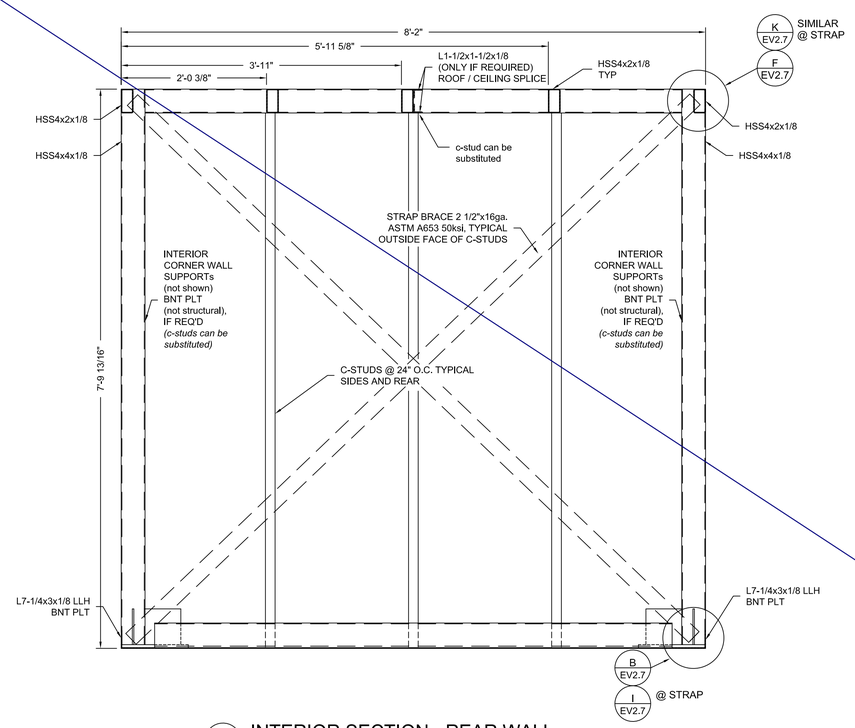
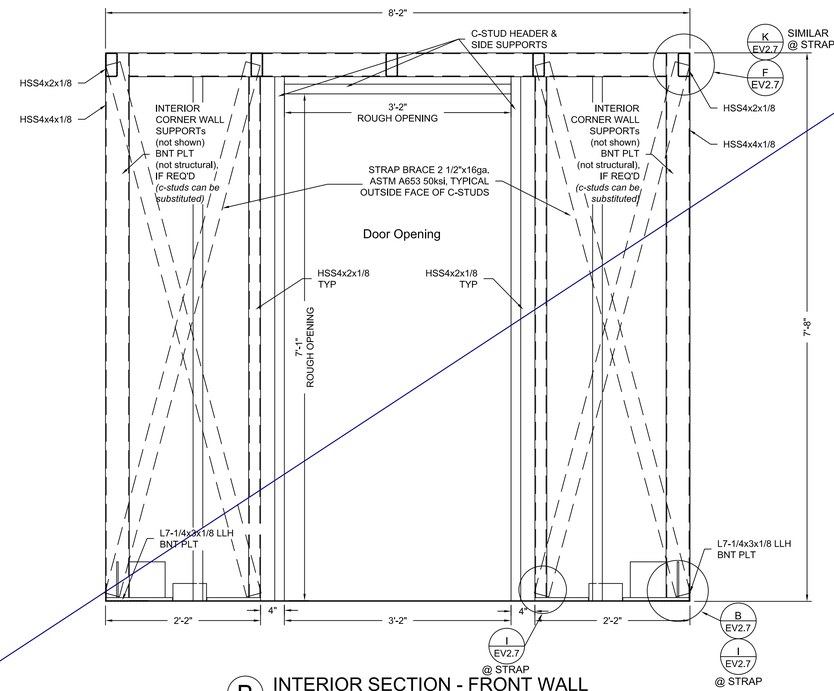
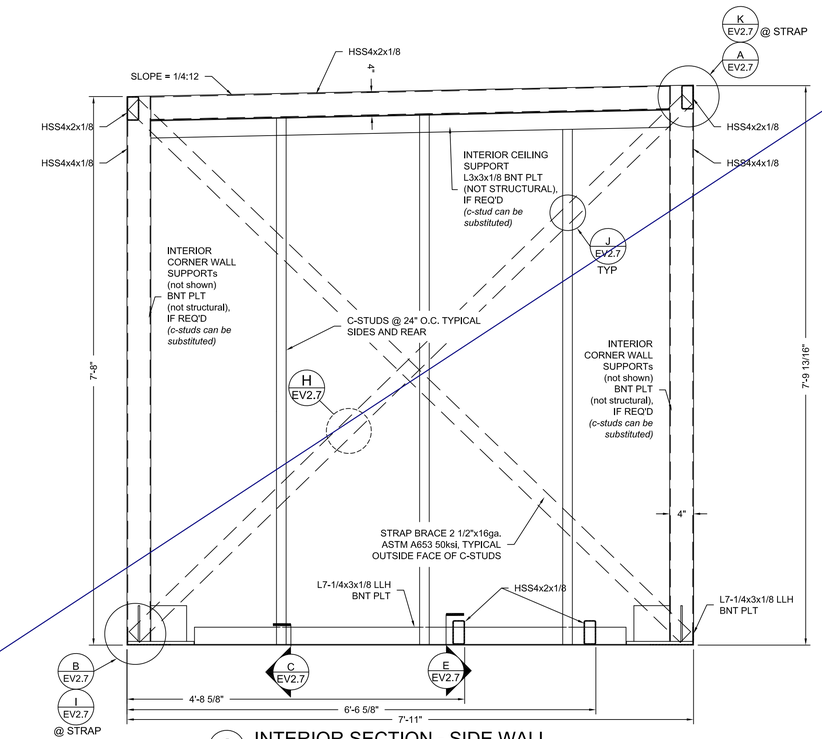


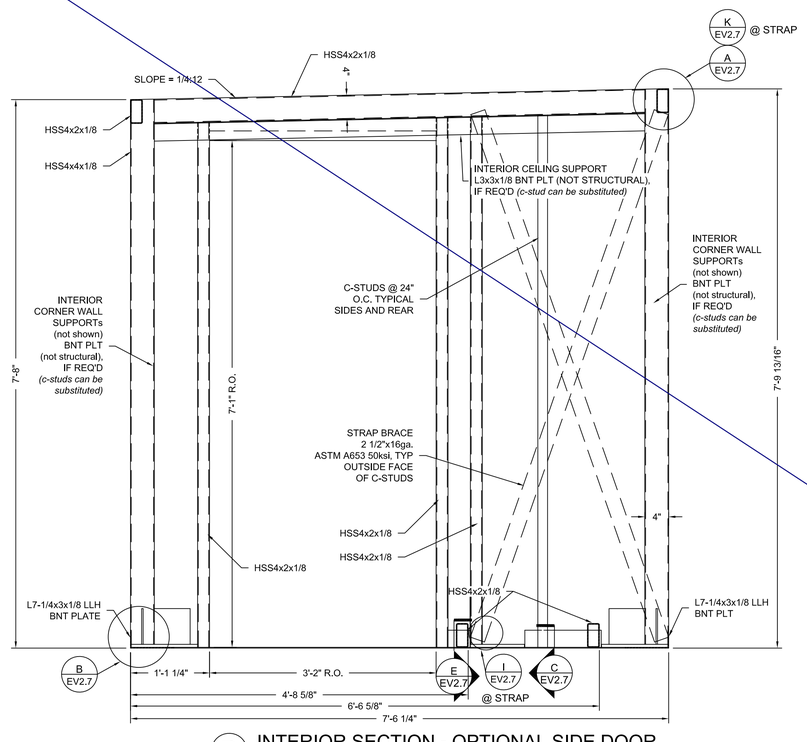
A INTERIOR SECTION - REAR WALL
1"=1'-0"



B INTERIOR SECTION - FRONT WALL
1"=1'-0"



C INTERIOR SECTION - SIDE WALL
1"=1'-0"



D INTERIOR SECTION - OPTIONAL SIDE DOOR
3/4"=1'-0"

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Signed
2/23/2024

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MODULAR MACHINE ROOM STRUCTURAL SECTION VIEWS

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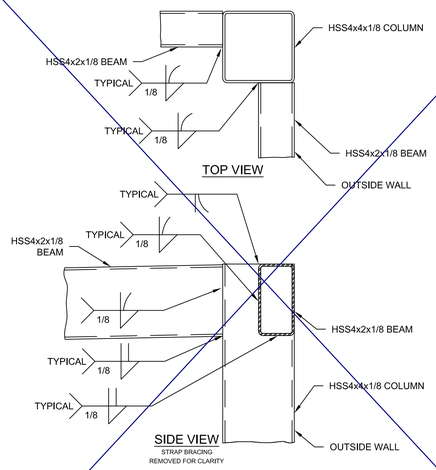
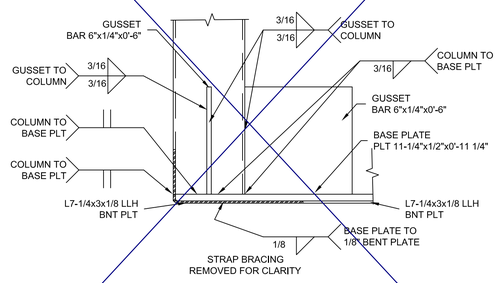
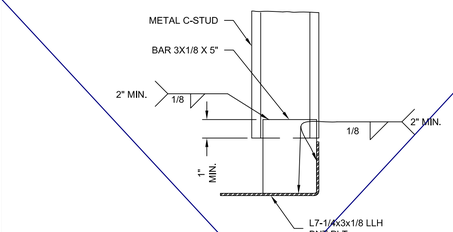


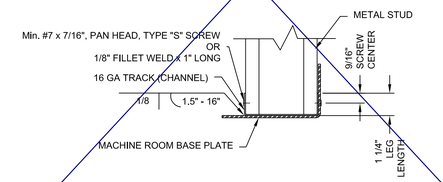
A TYPICAL TOP CORNER DETAIL
3" = 1'-0"



B TYPICAL BOTTOM CORNER DETAIL
3" = 1'-0"



C TYPICAL C-STUD BOTTOM CONNECTION DETAIL
3" = 1'-0"



C ALTERNATE C-STUD BOTTOM CONNECTION DETAIL
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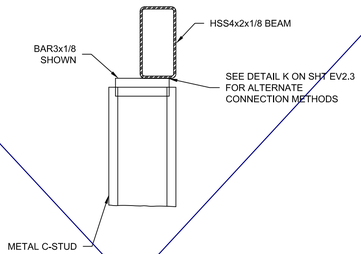
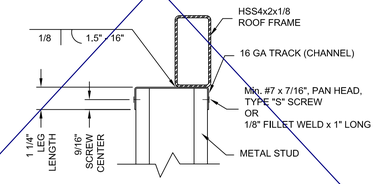
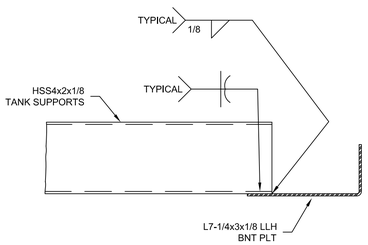


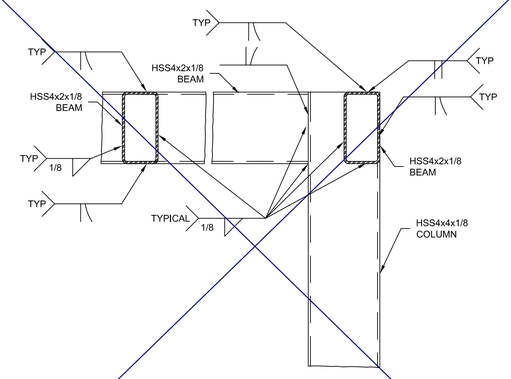
D TYPICAL C-STUD TOP CONNECTION DETAIL
3" = 1'-0"



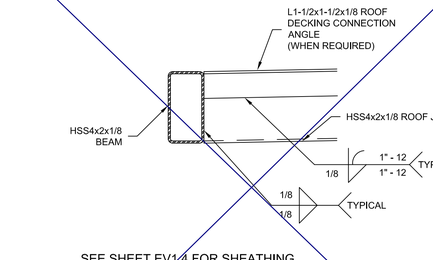
D ALTERNATE C-STUD TOP CONNECTION DETAIL
3" = 1'-0"



E TYPICAL TANK SUPPORT DETAIL
3" = 1'-0"

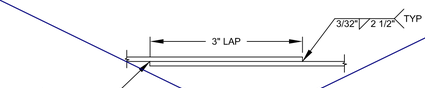


F TYPICAL TOP CORNER DETAIL
3" = 1'-0"



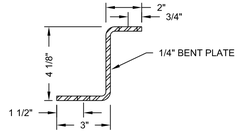
SEE SHEET EV1.4 FOR SHEATHING
AND SHEATHING ATTACHMENT DETAILS

G TYPICAL ROOF JOIST DETAIL
3" = 1'-0"

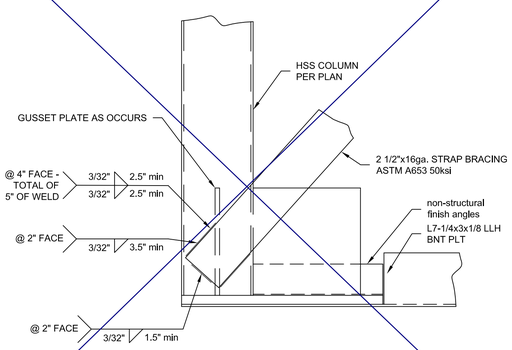


16 GA. STRAP BRACING SPLICE
ONE SPLICE PER BRACE

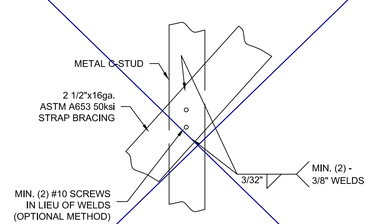
H STRAP SPLICE DETAIL
3" = 1'-0"



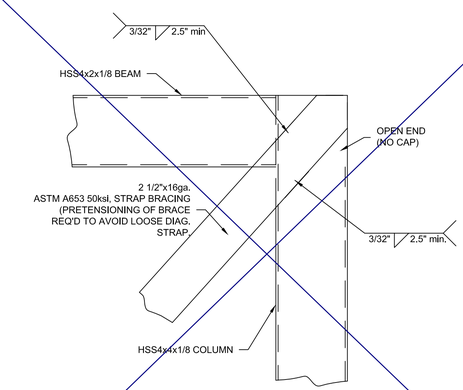
L TYPICAL PUMP UNIT ANCHORAGE PLATE DETAIL
3" = 1'-0"



I STRAP BRACING BOTTOM CORNER DETAIL
3" = 1'-0"



J STRAP BRACING AT WALL STUDS
3" = 1'-0"

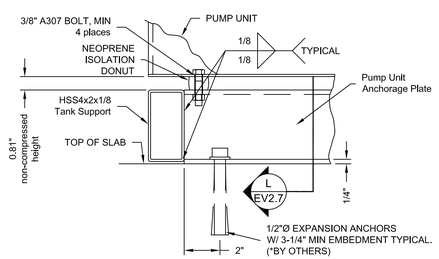


K STRAP BRACING TOP CORNER DETAIL
3" = 1'-0"

As per Title 8, Chapter 4, Subchapter 6. Elevator Safety Orders:
Means shall be provided which shall prevent the tank from being overturned or displaced.

Maximum weight of pump unit / tank plus oil = 1500 pounds.

This is based on a pump unit supplied by Phoenix Modular Elevator Inc.



M HYDRAULIC TANK SUPPORT DETAIL
SCALE: 3" = 1'-0"

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Sheet Title:
MODULAR MACHINE ROOM - STRUCTURAL DETAILS

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T. HOUSE	
Date: 3/15/23	Drawing Scale: AS SHOWN

SHEET NO.
EV2.7-02

LIST OF ABBREVIATIONS

ADD'L.	ADDITIONAL
ALT.	ALTERNATE
ACI	AMERICAN CONCRETE INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT(S)
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT / ARCHITECTURAL
@	AT
C	CAMBER
CBC	CALIFORNIA BUILDING CODE
CIP	CAST IN PLACE
CLG.	CEILING
CJP	COMPLETE JOINT PENETRATION WELD
CL	CENTER LINE
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
DL	DEAD LOAD
DTL. OR DET.	DETAIL
DIAG.	DIAGONAL
DIA. OR ø	DIAMETER
DIM.	DIMENSION
DBL.	DOUBLE
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMBED.	EMBEDMENT
ENG.	ENGINEER
EQ.	EQUAL
EXP.	EXPANSION
EXT.	EXTERIOR
F.S.	FAR SIDE
FIN.	FINISH
F.F.	FINISHED FLOOR
FLR.	FLOOR
FTG.	FOOTING
FRMG.	FRAMING
GALV.	GALVANIZE
GA.	GAUGE
GR.	GRADE
HR	HARDROCK
HT.	HEIGHT
HSS	HOLLOW STRUCTURAL SECTION
HORIZ.	HORIZONTAL
INFO.	INFORMATION
INT.	INTERIOR
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
KSI	KIPS PER SQUARE INCH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO–HY	LOW HYDROGEN
M.B.	MACHINE BOLT(S)
MFR.	MANUFACTURER
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MU	MECHANICAL UNIT
N.F.	NEAR FACE
N.S.	NEAR SIDE
NSA	NELSON STUD ANCHOR
NTS.	NOT TO SCALE
NO. OR #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
PL. OR ℄	PLATE (STEEL OR WOOD)
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF.	REINFORCING
REQ'D	REQUIRED
SHT.	SHEET
SMS	SHEET METAL SCREWS
SIM.	SIMILAR
SIMP.	SIMPSON
SPECS.	SPECIFICATION
SQ.	SQUARE
STGR.	STAGGER
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STIFF.	STIFFENER
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
K OR KIP	1,000 POUNDS
THRU	THROUGH
T&B	TOP AND BOTTOM
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL OR TOP OF SHEATHING
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
WT.	WEIGHT
W/	WITH
W/O	WITHOUT

GENERAL

1. THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS, INCLUDING ANY ADDENDA (COLLECTIVELY 'THE PLANS') INCORPORATE ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:
   - THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 (CALIFORNIA ADMINISTRATIVE CODE), 2025 EDITION.
   - THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA BUILDING CODE), 2022 EDITION.
   - OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
   - THE FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
   - THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
   - THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
2. THE PLANS REPRESENT ONLY THE FINISHED STRUCTURE, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. IN PARTICULAR AND WITHOUT LIMITATION, THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL EXCAVATION, DEMOLITION, SHORING AND ERECTION PROCEDURES AND FOR ANY AND ALL SAFETY PROGRAMS AND PRECAUTIONS.
3. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE STRUCTURAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN THE CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.
4. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   - WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
   - SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
   - WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
   - SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE.
5. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   - BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY–STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
   - THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
6. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY–STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.
7. IN NO EVENT WILL ANY SITE VISITS BY THE STRUCTURAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF STRUCTURAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. STRUCTURAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

PROJECT DESIGN CRITERIA

1. BASIC DESIGN LOADS:

   MAIN BLDG:

ROOF LIVE LOAD:		20 PSF (REDUCIBLE)
ROOF DEAD LOAD:		10 PSF (SUPERIMPOSED)
ROOF(SOLAR DL):		5 PSF
FLOOR LIVE LOAD:	CLASSROOMS	50 PSF (REDUCIBLE)
	CORRIDORS	100 PSF
	PARTITIONS	15 PSF
	STAIR	100 PSF
FLOOR DEAD LOAD:	CLASSROOMS	59 PSF (SUPERIMPOSED)

   STORAGE BLDG:

ROOF LIVE LOAD:	20 PSF (REDUCIBLE)
ROOF DEAD LOAD:	13 PSF

2. WIND LOADS

   RISK CATEGORY: III
   EXPOSURE CATEGORY: C
   ULTIMATE DESIGN WIND SPEED (3–SECOND GUST), V_{ULT} = 100 MPH
   NOMINAL DESIGN WIND SPEED, V_{ASD} = 78 MPH
   VELOCITY PRESSURE EXPOSURE COEFFICIENT, K_Z = 1.016
   TOPOGRAPHIC FACTOR, K_{ZT} = 1.0
   WIND DIRECTIONALITY FACTOR, K_D = 0.85
   GROUND ELEVATION FACTOR, K_e = 1.0

   A. MWFRS – DIRECTIONAL PROCEDURE (ASCE 7–16, CH. 27 PART 1)

   $q_z = 0.00256\ K_Z\ K_{ZT}\ K_d\ K_e V_{ULT}^2 = 22.11$ PSF

   $P = qGC_p - q_i(GC_{pi})$

   GUST EFFECT FACTOR, G = 0.85
   EXTERNAL PRESSURE COEFFICIENT, C_p = [FIG. 27.3–1 THRU 27.3–4]
   INTERNAL PRESSURE COEFFICIENT, (GC_{pi}) = +0.18

3. EARTHQUAKE LOADS

   SEISMIC DESIGN CRITERIA

   S_S = 0.554
   S_1 = 0.232
   SITE CLASS: D
   F_A = 1.357
   F_V = 2.136
   S_{DS} = 0.501
   S_{D1} = 0.330
   RISK CATEGORY: III
   SEISMIC DESIGN CATEGORY: D
   ALLOWABLE DRIFT LIMIT = 0.015 x STORY HT.
   GROUND MOTION HAZARD ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH ASCE 7–16 CHAPTER 21, AS MODIFIED BY 2022 CBC SECTION 1803A.6.

   SEISMIC DESIGN REQUIREMENTS

DESIGN BASE SHEAR	$V = C_SW$
WHERE	$C_S = S_{DS}/(R/I_e)$
BUT SHALL NOT BE LESS THAN	$C_S = 0.044S_{DS}I_e > 0.01$
BUT NEED NOT EXCEED	$C_S = S_{D1}/[T(R/I_e)]$

BUILDING	R	Ω_0	T	I_e	Rho	C_S (LRFD)	PRIMARY LATERAL FORCE RESISTING SYSTEM	ANALYSIS PROCEDURE	STRUCT. IRREG.	LOC. OF BASE	WIND V_{ULT} (KIPS) (ASD)	WIND V_{ASD} (KIPS) (ASD)	SEISMIC (KIPS) (ASD)
MAIN BLDG.	8.0	3.0	0.447	1.25	1.0	0.078	(1)	(A)	NONE	T.O.F.	66.17	39.91	42.23
STORAGE BLDG.	6.5	3.0	0.164	1.25	1.0	0.096	(2)	(A)	NONE	T.O.F.	7.2	4.5	2.90

(1) SPECIAL STEEL MOMENT FRAMES (ASCE 7–16, TABLE 12.2–1, ITEM C.1.)

(2) LIGHT FRAME (COLD–FORMED STEEL) WALLS SHEATHED WITH STEEL SHEETS (ASCE 7–16, TABLE 12.2–1, ITEM A.16)

(A) EQUIVALENT LATERAL FORCE PROCEDURE

SUBMITTALS

1. SUBMITTALS, INCLUDING SHOP DRAWINGS AND CONCRETE MIX DESIGNS, REQUIRED BY THE PLANS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THE ITEMS.
2. A SCHEDULE FOR SUBMITTAL OF SHOP DRAWINGS SHALL BE PREPARED BY THE GENERAL CONTRACTOR AND REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO THE START OF FABRICATION. THE SCHEDULE SHALL PROPORTION THE QUANTITY OF SHOP DRAWINGS TO BE REVIEWED IN EACH SUBMITTAL TO ALLOW SUFFICIENT TIME, AS DEEMED REASONABLE IN THE PROFESSIONAL JUDGEMENT OF THE ARCHITECT AND STRUCTURAL ENGINEER, TO PERMIT ADEQUATE REVIEW.
3. SHOP DRAWINGS SHALL INDICATE THE DATE OR REVISION OF DRAWING(S) FROM WHICH THE DRAWINGS WERE PREPARED. SUBMITTALS THAT DO NOT IDENTIFY THE LATEST DATE OR REVISION OF DRAWING(S) WILL BE RETURNED WITHOUT REVIEW. ONLY SHOP DRAWINGS THAT ARE COMPLETE WILL BE ACCEPTED FOR REVIEW.
4. IF, AFTER REVIEW, THE SHOP DRAWINGS MUST BE REVISED AND RESUBMITTED, THE SHOP DRAWINGS SHALL IDENTIFY EACH REVISION AND/OR ADDITION BY CLOUDING OR OTHER MEANS TO ASSURE PROPER REVIEW.
5. SUBMITTALS WILL NOT BE ACCEPTED DIRECTLY FROM SUBCONTRACTORS. SUBMITTALS WILL BE ACCEPTED FROM THE GENERAL CONTRACTOR ONLY AFTER BEING REVIEWED AND SIGNED BY THE GENERAL CONTRACTOR, INDICATING COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS NOT COMPLYING WITH THE REQUIREMENTS NOTED ABOVE OR IN THE PLANS WILL BE RETURNED WITHOUT REVIEW.

FOUNDATION

1. ALL PORTIONS OF WORK PERTAINING TO EXCAVATIONS, FOUNDATIONS AND RETAINING WALLS SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, CHAPTER 18.
2. THE FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL REPORT BY:

   KRAZAN & ASSOCIATES, INC.
   CLOVIS, CA.
   KA PROJECT NO. 012–24185
   DATED: NOVEMBER 20, 2024

3. AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF WAS USED FOR DESIGN. BOTTOM OF FOOTINGS SHALL BE 1'–6" MINIMUM BELOW LOWEST ADJACENT FINAL GRADE AND BEAR ON APPROVED NATURAL GRADE OR COMPACTED FILL.

   CLASS OF MATERIALS: ENGINEERED FILL
   PASSIVE PRESSURE = 250 PSF/FT
   FRICTION COEFFICIENT = 0.30

4. SEE SPECIFICATIONS FOR EARTHWORK OPERATIONS.
5. THE CONTRACTOR SHALL PROVIDE FOR DE–WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE.
6. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
7. EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER.
8. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION AND REMOVAL OF SUCH BRACING.
9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED.
10. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION, SHALL BE REMOVED.
11. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., BE FOUND.

DIMENSIONS

1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT NOTED ON STRUCTURAL DRAWINGS.
4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN D. PITTS
No. 5692
Exp. 12–31–26
STRUCTURAL
STATE OF CALIFORNIA

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

GENERAL NOTES

SHEET NUMBER:

S001-02

CONCRETE

1. ALL PORTIONS OF WORK PERTAINING TO CONCRETE CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A.

2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. MIX DESIGNS SHALL CONFORM TO ACI 318, SEC. 26.4, CBC SEC.1903A AND 1904A. MIX DESIGNS SHALL INCORPORATE THE FOLLOWING CRITERIA:

   - MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. MAXIMUM OF 7 SACKS OF CEMENT PER YARD OF CONCRETE.
   - MAXIMUM WATER/CEMENT RATIO (BY WEIGHT) OF CONCRETE IN CONTACT WITH SOIL SHALL BE 0.45.
   - MAXIMUM SLUMP SHALL NOT EXCEED 3" ± 1" FOR FOOTINGS, SLABS ON GRADE, AND MASS CONCRETE; AND 4" ± 1" FOR OTHER CONCRETE. SLUMP LIMITATIONS NOTED SHALL APPLY TO CONCRETE MIX PRIOR TO THE ADDITION OF ANY WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS. MAXIMUM SLUMP MAY BE INCREASED TO 5 +/- 1" FOR MIX INCLUDING WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS.
   - CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE(S) SHALL NOT BE USED.

3. SCHEDULE OF STRUCTURAL CONCRETE 28 DAY MINIMUM STRENGTHS AND TYPES:

   - FOOTINGS, CAISSONS, GRADE BEAMS — 145 PCF, f'c = 3000 PSI
   - SLABS ON GRADE — 145 PCF, f'c = 3000 PSI
   - ELSEWHERE UNLESS NOTED — 145 PCF, f'c = 3000 PSI

4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II. CEMENT USED FOR CONCRETE IN CONTACT WITH SOIL SHALL CONFORM TO ASTM C-150, TYPE V.

5. AGGREGATE FOR NORMALWEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. COMBINED AGGREGATE GRADATION OF ⅜" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED.

6. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-94.

7. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304. CLEAN AND ROUGHEN TO ¼" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.

8. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.

9. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER, IN ADVANCE, OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

10. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

    CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"

    CONCRETE EXPOSED TO EARTH OR WEATHER:
    #6 THROUGH #18 BARS ..... 2"
    #5 BARS, W31 OR D31 WIRE, AND SMALLER ..... 1½"

    CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
    SLABS, WALLS, JOISTS:
    #14 AND #18 BARS ..... 1½"
    #11 BAR AND SMALLER ..... ¾"
    BEAMS, COLUMNS:
    PRIMARY REINFORCEMENT STIRRUPS, TIES, SPIRALS ..... 1½"

11. CONDUITS OR PIPES SHALL NOT BE EMBEDDED WITHIN A SLAB, WALL, BEAM, OR COLUMN, UNLESS SPECIFICALLY DETAILED.

12. CONDUITS OR PIPES SHALL NOT BE EMBEDDED WITHIN CONCRETE FILL OVER METAL DECK.

13. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL MOLDS, GROOVES, REVEALS, ORNAMENTS AND GROUNDS TO BE CAST IN CONCRETE.

14. DRYPACK WHERE NOTED ON DRAWINGS SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 2½ PARTS OF FINE AGGREGATE CONFORMING TO ASTM C-33 WITH ENOUGH WATER TO FORM A BALL WHEN SQUEEZED IN THE HAND. THE SPACE BETWEEN TWO SURFACES REQUIRING DRYPACK SHALL BE PACKED WITH THE DRYPACK MATERIAL BY TAMPING OR RAMMING WITH A BAR OR ROD UNTIL THE VOIDS ARE COMPLETELY FILLED.

15. NON-SHRINK GROUT WHERE NOTED ON DRAWINGS SHALL BE A PRE-MIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS. WHERE APPLICATION THICKNESS EXCEEDS MANUFACTURER'S LIMITATIONS, EXTEND WITH ⅜" (GRAVEL) AGGREGATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

16. CONCRETE FOR SLAB ON GRADE DOES NOT REQUIRE BATCH PLANT INSPECTION. A MINIMUM OF ONE SET OF CYLINDERS SHALL BE TAKEN AND TESTED FOR EACH 50 CUBIC YARDS OF CONCRETE OR FRACTION THEREOF.

REINFORCING STEEL

1. ALL PORTIONS OF WORK PERTAINING TO FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A.

2. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 WITH MIN. 80 KSI TENSILE STRENGTH, EXCEPT #3 BARS MAY BE GRADE 40. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO ASTM A-706, GRADE 60 WITH MIN. 80 KSI TENSILE STRENGTH.

3. WELDING OF REINFORCEMENT SHALL BE WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO STRUCTURAL WELDING CODE – REINFORCING STEEL, AWS D1.4, BY THE AMERICAN WELDING SOCIETY AND SEC. 1903A.8. WELDING RODS USED FOR THE WELDING OF REINFORCING SHALL BE E80XX. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. ALL #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT.

5. FUSION WELDED REINFORCING STEEL ASSEMBLIES SHALL CONFORM TO SEC. 1903A.8. TIES/STIRRUP BARS IN FUSION WELDED ASSEMBLIES SHALL CONFORM TO ASTM A-706, AND LONGITUDINAL HOLDING WIRES SHALL CONFORM TO ASTM A-1064.

6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, AND SHALL BE LAPPED 1½ SPACES AND 12" MINIMUM.

7. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE VERTICAL REINFORCEMENT, RESPECTIVELY.

8. REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.

9. ALL VERTICAL REINFORCING SHALL BE CONTINUOUS BETWEEN TWO DIAPHRAGM LEVELS, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL AND MISCELLANEOUS METAL

1. ALL PORTIONS OF WORK PERTAINING TO STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 22A AND TO THE FOLLOWING CODES: AISC 341, AISC 358.

2. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-992, UNLESS NOTED OTHERWISE.

3. ROUND HOLLOW STRUCTURAL SECTION (HSS) SHALL CONFORM TO ASTM A-500, GRADE C.

4. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A-500, GRADE C.

5. CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A-36, UNLESS NOTED OTHERWISE.

6. ALL BOLTS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:

   - ANCHOR BOLTS: ASTM F1554, GRADE 36
   - TYPICAL STEEL CONNECTIONS: ASTM A-325N (NON-SLIP-CRITICAL)
   - MOMENT AND DRAG CONNECTIONS: ASTM A-325SC (SLIP-CRITICAL)
   - MISCELLANEOUS CONNECTIONS NOT NOTED OTHERWISE: ASTM A-307

7. ANCHOR BOLTS SHALL BE HEX HEADED. BENT BAR ANCHORS SHALL NOT BE USED.

8. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

9. ALL WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1 AND SUPPLEMENT AWS D1.8, BY THE AMERICAN WELDING SOCIETY. WELDING RODS SHALL BE E70XX.

10. THE FILLER METAL FOR ALL WELDING SHALL HAVE A NOTCH TOUGHNESS OF NOT LESS THAN 20 FT-LBS AT 0 DEGREES F, AS MEASURED BY A STANDARD CHARPY V-NOTCH TEST, ASTM E23, IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATION REFERENCED IN AWS D1.1 AND SEISMIC SUPPLEMENT AWS D1.8.

11. ALL DEMAND CRITICAL WELDS SHALL HAVE A NOTCH TOUGHNESS OF NOT LESS THAN 40 FT-LBS AT 70 DEGREES F, AS MEASURED BY STANDARD CHARPY V-NOTCH TEST, ASTM E23, IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATION REFERENCED IN AWS D1.1 AND SEISMIC SUPPLEMENT AWS D1.8.

12. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

13. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELDS SHALL BE BASED ON AWS D1.1 FOR THICKER PART JOINED.

14. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. BOLT HOLES AT COLUMN BASEPLATES MAY BE 3/16" MAXIMUM LARGER IN DIAMETER THAN NOMINAL SIZE OF ANCHOR BOLT USED, UNLESS NOTED OTHERWISE.

15. DO NOT PAINT STRUCTURAL STEEL SURFACES THAT ARE TO RECEIVE SPRAY-APPLIED FIREPROOFING OR TO BE ENCASED IN CONCRETE OR MASONRY.

16. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS, INCLUDING CONNECTORS, EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED, AFTER FABRICATION.

17. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.

18. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

SIDEPLATE MOMENT FRAME CONNECTIONS

1. SEE SIDEPLATE SHEETS FOR SIDEPLATE MOMENT FRAME CONNECTIONS AND ADDITIONAL STEEL REQUIREMENTS.
2. SEE SIDEPLATE COVER SHEET FOR REQUIRED STEEL FABRICATOR LICENSING FEE

COLD-FORMED STEEL FRAMING

1. ALL PORTIONS OF WORK PERTAINING TO COLD-FORMED STEEL CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 22A AND TO THE FOLLOWING CODES: AISI S100, AISI S240, AISI S400.

2. ALL LIGHT GAUGE METAL FRAMING SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A-653 SS, GRADE 50, CLASS 1, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR 16 GAUGE AND HEAVIER FRAMING, AND ASTM A-653 SS, GRADE 33, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 18 GAUGE AND LIGHTER FRAMING.

3. DIMENSIONS, PROPERTIES AND TYPES NOTED ARE BASED ON METAL STUDS AND TRACKS BY STEEL STUD MANUFACTURERS ASSOCIATION, ICC NO. ESR-3064P, UNLESS NOTED OTHERWISE.

4. ALL STUDS AT JAMBS OF DOOR AND WINDOW OPENINGS SHALL BE 16 GAUGE, UNLESS NOTED OTHERWISE.

5. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE – SHEET STEEL, AWS D1.3, BY THE AMERICAN WELDING SOCIETY.

6. ALL SHEET METAL SCREWS SHALL PROTRUDE 3 EXPOSED THREADS MINIMUM THROUGH BASE METAL FRAMING.

7. ALL METAL STUDS SHALL HAVE STIFFENED FLANGES.

8. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE AND GAUGE OF STUDS.

NONDESTRUCTIVE TESTING OF MOMENT-RESISTING STEEL FRAMES

1. SEE SIDEPLATE SHEET S7.1 & S7.2, MATERIALS AND QUALITY ASSURANCE FOR ALL TESTING AND INSPECTION REQUIREMENTS OF THE WELDED SIDEPLATE CONNECTIONS.

STEEL DECKING

1. SEE STRUCTURAL STEEL AND MISCELLANEOUS METAL NOTES FOR ADDITIONAL INFORMATION.

2. STEEL DECKING SHALL BE OF THE TYPE AND GAUGE AS NOTED ON THE DRAWINGS. DECKING AND ALL ACCESSORIES SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A-653 SS, GRADE 50 MINIMUM. GALVANIZING SHALL CONFORM TO COATING DESIGNATION G90, UNLESS NOTED OTHERWISE.

3. DECK UNITS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS. PROVIDE SHORING AS REQUIRED BY MANUFACTURER'S CURRENT EVALUATION REPORT FOR NUMBER AND LENGTHS OF SPANS, AND AS REQUIRED BY MANUFACTURER TO SUIT JOB CONDITIONS.

4. MINIMUM BEARING OF DECKING ON SUPPORTS SHALL BE 2 INCHES. SHEETS SHALL BE ATTACHED TO ALL SUPPORTING STEEL MEMBERS (INCLUDING MEMBERS PARALLEL TO DECK UNDER UP-FLUTES) BY WELDING AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ADD METAL PLATE TO MATCH DECK THICKNESS, AS REQUIRED TO FACILITATE WELDING WHERE DECK DOWN FLUTES DO NOT LAND ON PARALLEL SUPPORTING MEMBERS. UPON COMPLETION OF ERECTION, ALL WELDS SHALL BE TOUCHED UP, DE-SLAGED, CLEANED AND PRIMED WITH A ZINC RICH PRIMER.

5. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS, ETC., FOR SIZE AND LOCATION OF REQUIRED OPENINGS.

6. PROVIDE CLOSURE PLATES AT ALL DECK EDGES, INCLUDING CLOSURES AT COLUMNS, AND SHAFT OPENINGS OR DUCT PENETRATIONS. STEEL DECKING SUBCONTRACTOR SHALL SUPPLY ALL CLOSURES AND ALL SUPPORT FRAMING WHERE NECESSARY FOR SUCH OPENINGS.

7. STEEL DECKING SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INDICATE LOCATION, GAUGE AND SIZE OF EACH PIECE OF DECKING. SHOP DRAWINGS SHALL ALSO SHOW ALL CLOSURE CONDITIONS, WELDS TO SUPPORTS AND SIDE LAP DETAILS.

8. WELDING OF STEEL DECKING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE – SHEET STEEL, AWS D1.3 BY THE AMERICAN WELDING SOCIETY.

HIGH-STRENGTH BOLTS

1. SEE STRUCTURAL STEEL AND MISCELLANEOUS METAL NOTES FOR ADDITIONAL INFORMATION.

2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GRADE A-325 OR GRADE A-490 BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

3. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125 GRADE A-325 OR GRADE A-490, NUTS SHALL CONFORM TO ASTM A-563, AND WASHERS SHALL CONFORM TO ASTM F-436.

4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.

5. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION, UNLESS IDENTIFIED ON THE PLANS AS SLIP-CRITICAL.

6. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, INSTALLATION OF ALTERNATE DESIGN BOLTS OR BY DIRECT TENSION INDICATOR TIGHTENING.

7. SEE SIDEPLATE PLANS STARTING ON S7.1 FOR ADDITIONAL BOLT REQUIREMENTS.

ANCHORS AND/OR DOWELS INSTALLED WITH ADHESIVE

1. ANCHORS AND/OR DOWELS SHALL BE INSTALLED WITH ADHESIVE ONLY WHERE INDICATED ON DRAWINGS.

2. ANCHORS AND/OR DOWELS SHALL BE INSTALLED IN CONCRETE USING ONE OF THE FOLLOWING PRODUCTS IN ACCORDANCE WITH THE APPLICABLE ICC/IAPMO REPORT:

   - HILTI HIT-HY 200 ADHESIVE — ICC NO. ESR-3187
   - SIMPSON SET-XP ADHESIVE — ICC NO. ESR-2508
   - DEWALT PURE110+ ADHESIVE — ICC NO. ESR-3298

3. ANCHORS AND/OR DOWELS SHALL BE INSTALLED IN GROUTED MASONRY USING ONE OF THE FOLLOWING PRODUCTS IN ACCORDANCE WITH THE APPLICABLE ICC REPORT:

   - HILTI HIT-HY 200 ADHESIVE — ICC NO. ESR-3963
   - SIMPSON SET-XP ADHESIVE — IAPMO NO. ER-265

4. ADHESIVE SYSTEMS OTHER THAN THOSE SPECIFIED SHALL BE SUBMITTED AS A SUBSTITUTION, AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE ENFORCEMENT AGENCY, THE ARCHITECT, AND THE STRUCTURAL ENGINEER.

5. HOLES SHALL BE DRILLED WITH NON-REBAR-CUTTING DRILL BITS.

6. HOLES SHALL BE CLEAN OF CONCRETE DUST AND DEBRIS USING A STEEL WIRE BRUSH AND OIL-FREE COMPRESSED AIR. HOLES SHALL ALSO BE FREE OF STANDING WATER.

7. PROJECT INSPECTOR SHALL VERIFY INSTALLATION OF ANCHORS OR DOWELS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INCLUDING CLEANLINESS OF DRILL HOLES AND PROPER EMBEDMENT.

8. ANCHORS SET IN CONCRETE AND GROUTED MASONRY SHALL BE TESTED TO 2 TIMES THE ASD ALLOWABLE TENSION LOAD, 1.25 TIMES THE LRFD STRENGTH CAPACITY, OR 80% OF THE YIELD STRENGTH OF THE BOLT FOR THE SPECIFIC LOCATION OF THE ANCHOR TO BE TESTED, WHICHEVER IS LESS. TORQUE TESTING IS NOT PERMITTED. SEE DETAILS FOR TEST LOADS.

9. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318-14 17.8.2.2). PROOF OF CURENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.

10. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.

POST-INSTALLED ANCHORS

1. ACCEPTABLE EQUIVALENT MANUFACTURERS OF POST-INSTALLED EXPANSION ANCHORS AND SCREW ANCHORS SHALL BE HILTI INC., SIMPSON STRONG-TIE COMPANY INC., OR DEWALT, UNO.

2. TESTS FOR POST-INSTALLED ANCHORS IN HARDENED CONCRETE SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A, SECTION 1910A.5.

3. POST-INSTALLED ANCHOR INSTALLATION SHALL BE INSPECTED BY A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE.

4. POST-INSTALLED ANCHOR TESTING SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.

5. TEST QUANTITY OF POST-INSTALLED ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
SILL PLATES	10% OF BOLTS
STRUCTURAL	100% OF BOLTS
NON-STRUCTURAL (EQUIP. ANCHORAGE, ETC.)	50% OF BOLTS

6. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

7. TORQUE TESTING SHALL BE APPLIED BY CALIBRATED WRENCH. TENSION TESTING (WHERE INDICATED) SHALL BE APPLIED BY HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICE.

8. THE FOLLOWING CRITERIA SHALL APPLY FOR THE ACCEPTANCE OF INSTALLED POST-INSTALLED ANCHORS:

   A. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE ATTAINED WITHIN ONE-HALF (½) TURN OF THE NUT. SLEEVE ANCHORS ⅜ INCH DIAMETER OR LESS MUST ATTAIN THE SPECIFIED TEST TORQUE WITHIN ONE-QUARTER (¼) TURN OF THE NUT, AND THREADED ANCHORS MUST ATTAIN THE SPECIFIED TEST TORQUE WITHIN ONE-QUARTER (¼) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

   B. HYDRAULIC RAM METHOD: (FOR TENSION TESTING WHERE INDICATED) ANCHORS SHALL MAINTAIN THE TENSION TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST. (AN EXAMPLE OF DISCERNABLE MOVEMENT WOULD BE LOOSENING OF THE WASHER UNDER THE NUT).

8. TEST LOADS (1)(2)(3)

TORQUE TEST VALUES – EXPANSION ANCHORS
NORMAL WEIGHT CONCRETE

ANCHOR DIAMETER (INCH)	ANCHOR DEPTH (INCHES)	TORQUE (FT-LBF)
⅜	2	25
½	2	40
	3¼	40
⅝	3⅜	60
	4	60
¾	3¾	110
	4¾	110

(1) TEST VALUES ARE BASED ON KWIK BOLT TZ (KB-TZ2) EXPANSION ANCHORS BY HILTI, INC. (ICC EVALUATION REPORT NUMBER ESR-4266).

(2) TEST VALUES ARE BASED ON CARBON STEEL ANCHORS.

(3) VERIFY TORQUE VALUES WITH MANUFACTURER FOR SIMPSON STRONG-BOLT 2 (ICC ESR-3037) OR DEWALT POWER-STUD+SD2 (ICC ESR-2502)

TORQUE TEST VALUES – SCREW ANCHORS
NORMAL WEIGHT CONCRETE

ANCHOR DIAMETER (INCH)	ANCHOR DEPTH (INCHES)	TORQUE (FT-LBF)
⅜	2¾	50
	3½	50
½	3¾	65
	4½	65
⅝	4½	100
	6	100
¾	6	150
	6¾	150

(1) TEST VALUES ARE BASED ON TITEN HD SCREW ANCHORS BY SIMPSON STRONG-TIE, (ICC EVALUATION REPORT NUMBER ESR-2713).

(3) VERIFY TORQUE VALUES WITH MANUFACTURER FOR HILTI HUS-EZ SCREW ANCHORS (ICC ESR-3027) OR DEWALT SCREW-BOLT+SCREW ANCHOR (ICC ESR-3889)

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REGISTERED PROFESSIONAL ENGINEER
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No. 5692
Exp. 12-31-26
STRUCTURAL
STATE OF CALIFORNIA

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

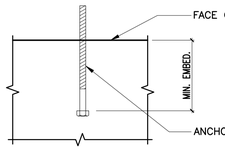
REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
GENERAL NOTES

SHEET NUMBER:
S002-02

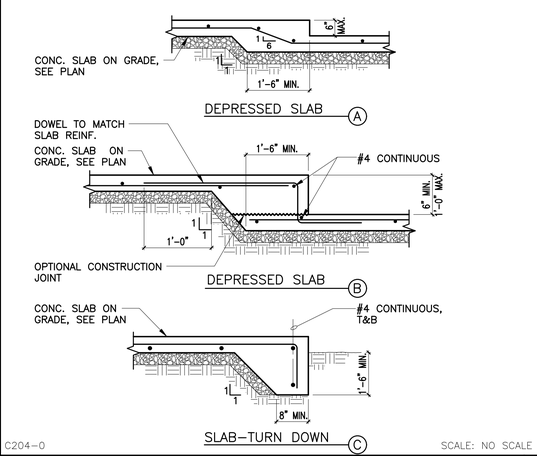


BOLT SIZE	EMBEDMENT FOR CONCRETE U.N.O.
½"	4"
⅝"	5"
¾"	6"
⅞"	7"
1"	8"
1⅛"	9"
1¼"	10"

NOTES:
1. MINIMUM BOLT SPACING SHALL BE 12 BOLT DIAMETERS WITH A MINIMUM EDGE DISTANCE OF 12 DIAMETERS, UNLESS NOTED OTHERWISE.
2. PROVIDE AN ADDITIONAL 2" OF EMBEDMENT FOR ANCHOR BOLTS LOCATED IN THE TOP OF COLUMNS.
3. ANCHOR BOLTS SHALL BE HEX HEADED WITH THE DIMENSIONS OF THE HEX CONFORMING TO ANSI/ASME B18.2.1 BENT BAR ANCHORS SHALL NOT BE USED.

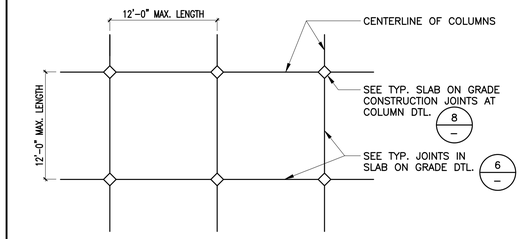
C501–0 SCALE: NO SCALE

CONCRETE ANCHOR BOLT SCHEDULE | 10



C204–0 SCALE: NO SCALE

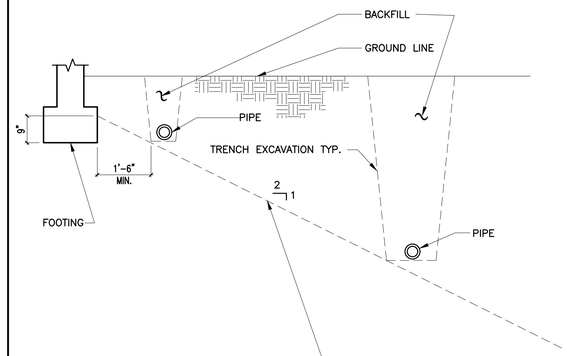
DEPRESSED S.O.G. AND SLAB EDGE | 7



NOTES:
1. PANELS SHALL BE DIVIDED BY CONTROL JOINTS AND CONSTRUCTION JOINTS.
2. PROVIDE CONTROL JOINTS PERPENDICULAR TO CONSTRUCTION JOINTS.
3. IN AREAS WHERE COLUMNS DO NOT OCCUR PROVIDE CONSTRUCTION OR CONTROL JOINTS AT 12'–0" MAX.
4. BETWEEN 1:1 TO 2:1 PANEL SHALL NOT EXCEED 150 SQUARE FEET IN AREA.
5. SEE PLANS FOR LOCATIONS WHERE ADDITIONAL JOINTS MAY BE REQUIRED.
6. THE CONTRACTOR SHALL SUBMIT A PROPOSED LAYOUT OF JOINTS FOR APPROVAL PRIOR TO POURING SLABS.
7. PROVIDE JOINTS @ ALL RE–ENTRANT CORNERS IN SLAB CONSTRUCTION.

C201–0 SCALE: NO SCALE

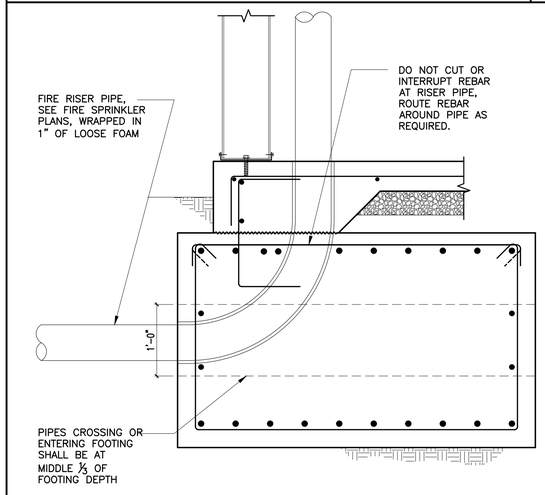
METHOD OF POURING S.O.G. | 4



NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL "STEPPED FOOTING" DETAILS 3

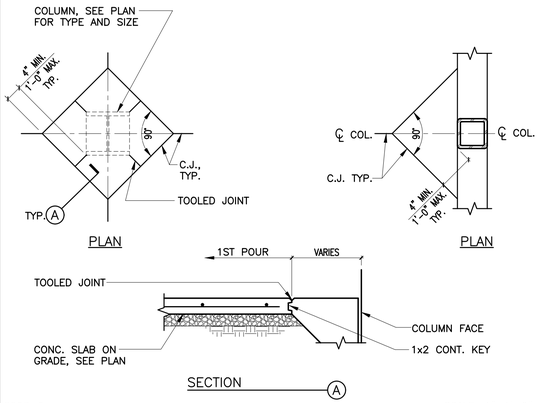
C102–0 SCALE: NO SCALE

PIPES PARALLEL TO FOOTINGS | 1



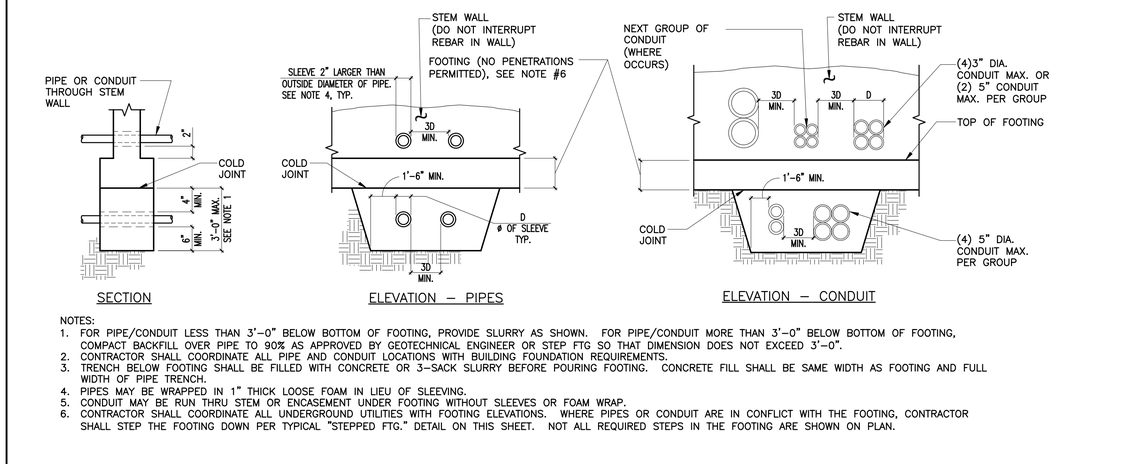
MERCED–006 SCALE: 1"=1'–0"

TYP. PIPE IN GRADE BEAM | 11



C203–0 SCALE: 1"=1'–0"

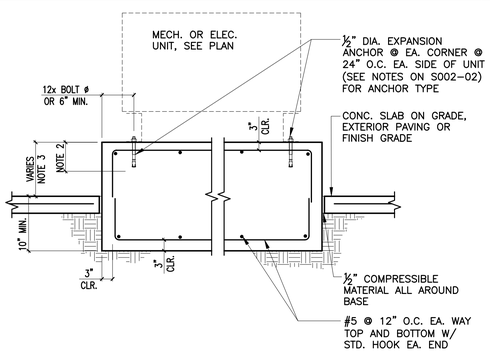
S.O.G. CONST. JOINTS AT COL. | 8



NOTES:
1. FOR PIPE/CONDUIT LESS THAN 3'–0" BELOW BOTTOM OF FOOTING, PROVIDE SLURRY AS SHOWN. FOR PIPE/CONDUIT MORE THAN 3'–0" BELOW BOTTOM OF FOOTING, COMPACT BACKFILL OVER PIPE TO 90% AS APPROVED BY GEOTECHNICAL ENGINEER OR STEP FTG SO THAT DIMENSION DOES NOT EXCEED 3'–0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE AND CONDUIT LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3–SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
5. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.
6. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES WITH FOOTING ELEVATIONS. WHERE PIPES OR CONDUIT ARE IN CONFLICT WITH THE FOOTING, CONTRACTOR SHALL STEP THE FOOTING DOWN PER TYPICAL "STEPPED FTG." DETAIL ON THIS SHEET. NOT ALL REQUIRED STEPS IN THE FOOTING ARE SHOWN ON PLAN.

C103–0 SCALE: NO SCALE

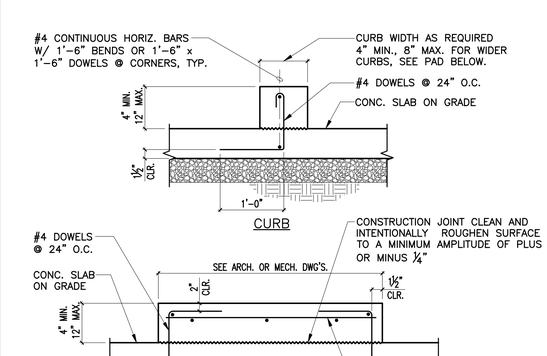
PIPES AND CONDUIT PERPENDICULAR TO FOOTINGS | 2



NOTES:
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
1. LOCATION AND DIMENSIONS OF BASES.
2. EMBEDMENT OF EXPANSION ANCHORS WHERE OCCURS, 3¾" MIN.
3. CURB HEIGHT, 4" MIN.

C208–0 SCALE: NO SCALE

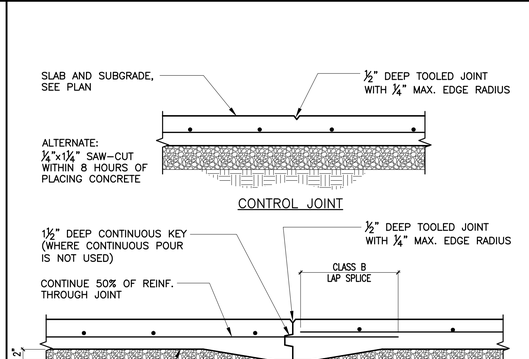
CONCRETE CURB FOR EQUIPMENT | 12



NOTES:
1. SEE ARCH. FOR SIZE, HEIGHT AND LOCATION OF CURBS AND PADS.
2. PROVIDE INSERTS AS REQ'D BY ARCH & MECH. DRAWINGS.

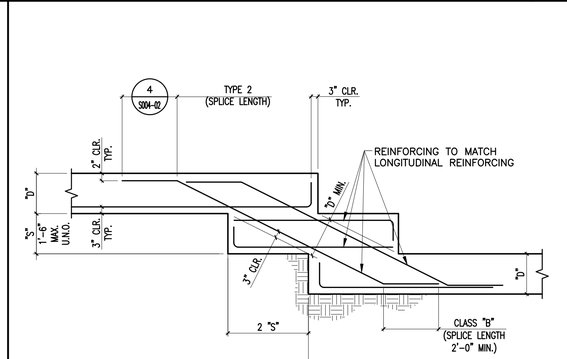
C208–0 SCALE: NO SCALE

CONCRETE CURB AND PADS | 9



C202–0 SCALE: NO SCALE

JOINT IN SLAB ON GRADE | 6



NOTES:
1. FOR FOOTING REINFORCING SEE FOOTING ELEVATIONS AND/OR SECTIONS.
2. VERTICAL WALL DOWELS SHALL EXTEND TO BOTTOM OF FOOTING.

C108–0 SCALE: NO SCALE

STEPPED FTG | 3

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

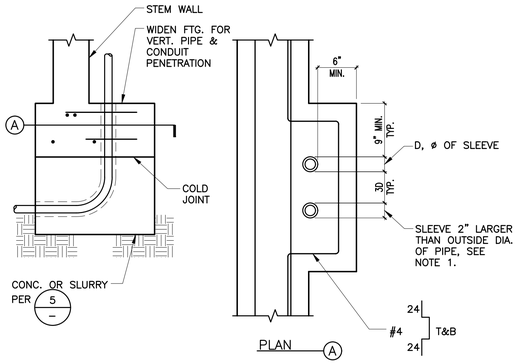
REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TYPICAL
CONCRETE DETAILS

SHEET NUMBER:
S003-02



NOTES:
1. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
2. CONDUIT MAY BE ROUTED UP THROUGH FOOTING WITHOUT SLEEVES OR FOAM WRAP.

C109–0 SCALE: NO SCALE

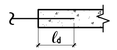
TYP. VERT. PIPES OR COND. THRU FTG. | 10

REINFORCING DEVELOPMENT & SPLICE LENGTHS (GRADE 60)

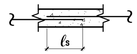
TYPE	BAR LOCATION	CONCRETE		BAR SIZE																				
		TYPE	STRENGTH	#3			#4			#5			#6			#7			#8			#9		
				ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}
1	VERT. REINF. IN CONC WALL	NWC	$f'_c \geq 3$ksi	16	18	6	22	25	7	28	31	9	32	37	10	48	54	12	54	62	14	62	70	15
2	HORIZ. REINF. IN CONC. WALL, FTGS., BEAMS, MISC. (SEE NOTE 5)	NWC	$f'_c \geq 3$ksi	21	24	6	29	32	7	36	40	9	43	48	10	62	70	12	71	80	14	81	91	15
3	SLAB ON GRADE (SEE NOTE 6)	NWC	$f'_c \geq 3$ksi	16	18	6	22	25	7	28	31	9	32	37	10	48	54	12	54	62	14	62	70	15
4	CONC. ROOF OR FLOOR DIAPHRAGMS	LWC	$f'_c \geq 3$ksi	27	30	8	35	39	12	43	48	12	51	57	13	75	84	16	85	96	19	96	108	20

NOTES:

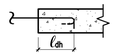
1. ℓ_d = DEVELOPMENT



ℓ_s = LAP SPLICE LENGTH



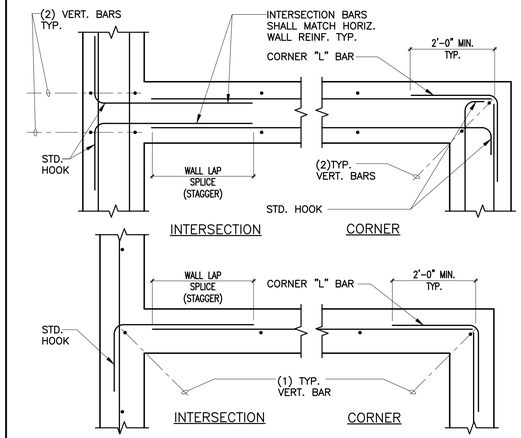
ℓ_{dh} = HOOK DEVELOPMENT LENGTH



2. THE ABOVE DEVELOPMENT & SPLICE LENGTHS ARE CLASS B & APPLY TO ALL REINF. U.N.O. ON DWGS.
3. FOR NONCONTACT LAP SPLICES AND ALL SPLICES IN SHOTCRETE WALLS, ADD 6" TO THE LENGTHS IN THE TABLE ABOVE.
4. WHEN SPLICING BARS OF DIFFERENT SIZE, USE THE LAP SPLICE LENGTH OF LARGER BAR.
5. TYPE 2 VALUES NOTED HAVE ALREADY BEEN INCREASED BY 1.3, ASSUMING A "TOP BAR" CONDITION.
6. FOR SLABS OR CURBS THICKER THAN 12", THE REBAR LAPS SHALL BE INCREASED TO COMPLY WITH TYPE 2 VALUES.

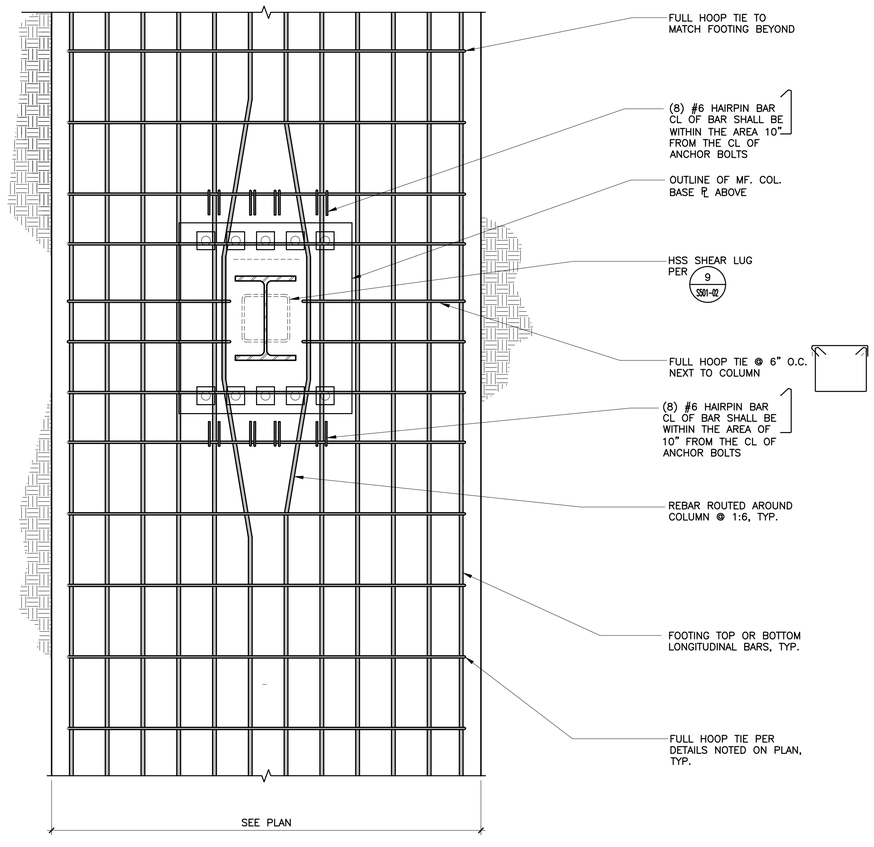
C415–0 SCALE: NO SCALE

DETAIL | 4



C303–0 SCALE: NO SCALE

REINF. AT FNDN. WALL INTERSECTION | 1

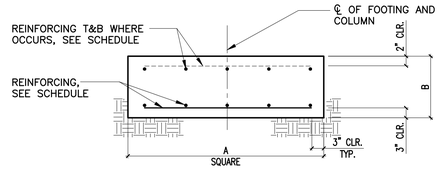


PLAN VIEW

MERCED–005 SCALE: 1"=1'–0"

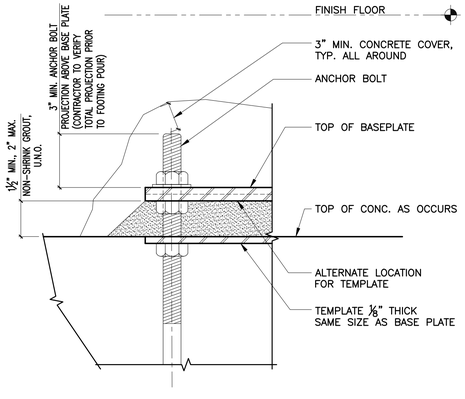
TYPICAL GRADE BEAM REINFORCEMENT @ MF COLUMN BASE | 9

PAD FOOTING SCHEDULE				
	A	B	REINF.	REMARKS
PF–3	3'–0"	2'–0"	(5)#5 EA. WAY	
PF–4	4'–0"	2'–0"	(7)#5 EA. WAY	
PF–5	5'–0"	2'–0"	(9)#5 EA. WAY	
PF–6	6'–0"	2'–0"	(10)#5 EA. WAY	
PF–7	7'–0"	2'–0"	(12)#5 EA. WAY	



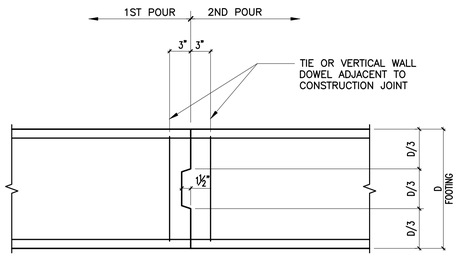
C107–0 SCALE: NO SCALE

PAD FOOTING SCHEDULE | 5



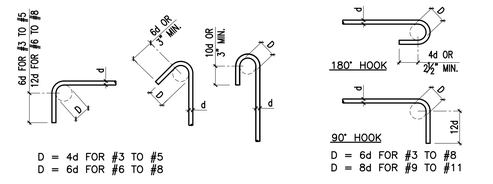
S114–0 SCALE: NO SCALE

ANCHOR BOLT PROJECTION | 6



C105–0 SCALE: NO SCALE

CONTINUOUS FOOTING CONST. JOINT | 2



NOTES:
1. ALL BAR BENDS SHALL BE MADE COLD.
2. ALL REINFORCING BARS #5 & LARGER SHALL NOT BE RE-BENT.

C409–0 SCALE: NO SCALE

BAR BENDS | 3

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INCREMENT 2

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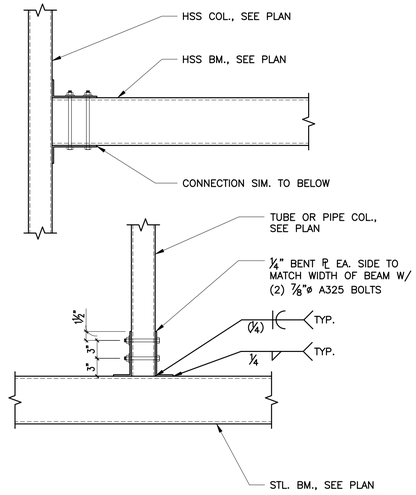
SHEET TITLE

TYPICAL
CONCRETE DETAILS

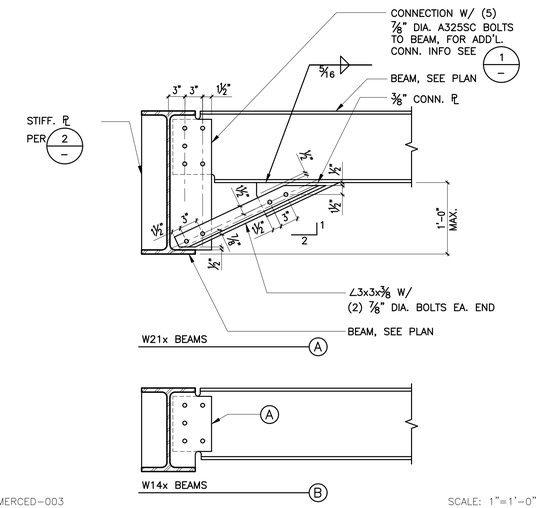
SHEET NUMBER:

S004-02



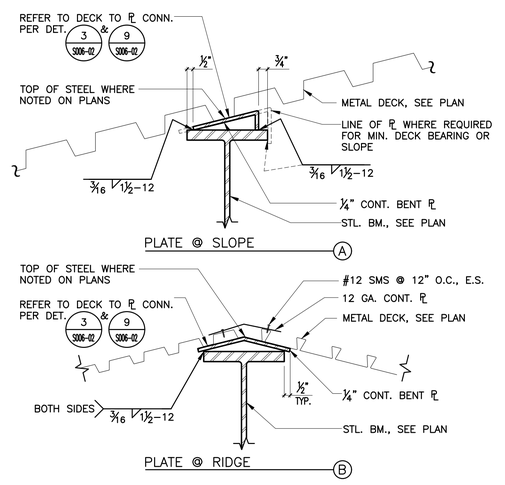
MERCED-037 SCALE: 1"=1'-0"

TYP. HSS TO HSS | 10



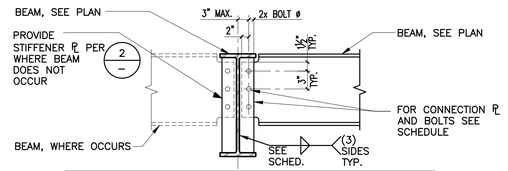
MERCED-003 SCALE: 1"=1'-0"

MOMENT FRAME - BEAM BRACE | 7



S505-0 SCALE: NO SCALE

BEAM SLOPE TRANSITION PLATES | 4

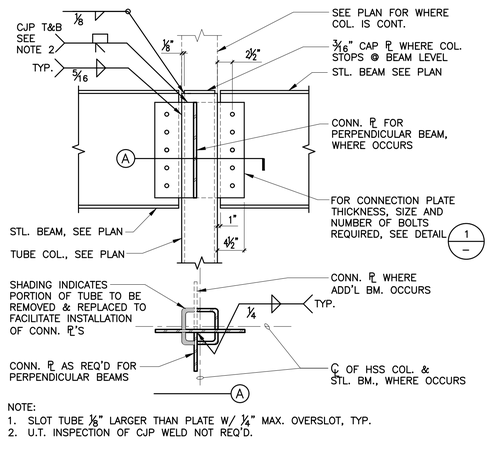


BEAM TO BEAM CONNECTION SCHEDULE				
BEAM DEPTH	CONN. PL THICKNESS	NO. AND ø OF ¾ HS BOLTS (A325N)	WELD ' SIZE	REMARKS
W8	¼"	(2)¾"	5/16"	
W10	¼"	(2)⅞"	5/16"	
W12 – W14	¼"	(3)⅞"	¼"	
W16	⅜"	(4)⅞"	¼"	
W18 – W21	⅜"	(5)⅞"	5/16"	
W24	⅜"	(6)⅞"	5/16"	
W27	⅜"	(7)⅞"	5/16"	
W30	½"	(8)⅞"	5/16"	
W33	½"	(9)⅞"	⅜"	
W36	½"	(10)⅞"	⅜"	

NOTES:
1. FILLET WELD SHALL BE AS SHOWN, UNLESS A GREATER SIZE IS REQUIRED BY THE MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, CHAPTER J, SEC. J2, TABLE J2.4.
2. HORIZONTAL SHORT SLOTTED HOLES OPTIONAL. (NOT PERMITTED @ SFRS LINES).
3. PROVIDE SLIP CRITICAL (SC) BOLTS WHEN INDICATED ON PLAN.

S101-0 SCALE: NO SCALE

BEAM TO BEAM CONNECTION | 1



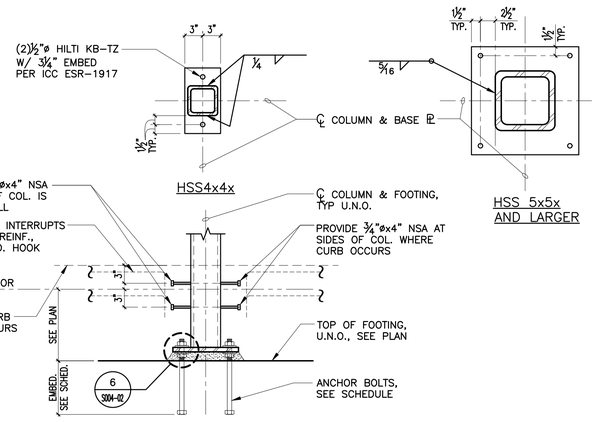
NOTE:
1. SLOT TUBE ⅛" LARGER THAN PLATE W/ ¼" MAX. OVERSLOT, TYP.
2. U.T. INSPECTION OF CJP WELD NOT REQ'D.

S115-0 SCALE: NO SCALE

BEAM TO SIDE OF HSS COL. CONN. (2 SIDES) | 11

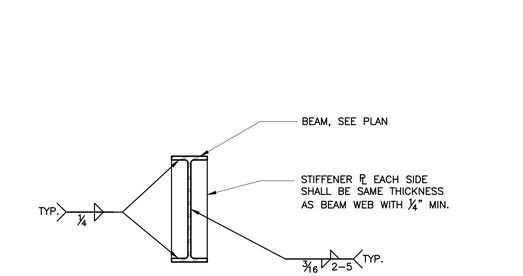
BASE PLATE SCHEDULE			
COLUMN SIZE	"T"	ANCHOR DIA. U.N.O.	EMBEDMENT
4"	¾"	½" TZ2	3.25"
> 4" TO 7"	1½"	¾" CIP	9"

NOTES:
1. BASEPLATES SHALL BE FINISHED PER AISC SPEC M2.8.
2. COLUMN BASES SHALL BE PER AISC CODE OF STANDARD PRACTICE 6.2.2.
3. WHERE COLUMN INTERRUPTS STEM WALL REINF., PROVIDE STD. HOOK.
4. FOR SLAB BLOCKOUT INFORMATION SEE 8/S003-02.



S202-0 SCALE: NO SCALE

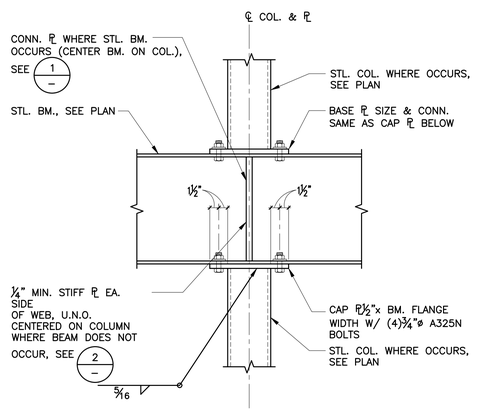
TYPICAL BASE PLATE | 5



NOTE:
FILLET WELD SIZES SHALL BE AS SHOWN, UNLESS NOTED OTHERWISE.

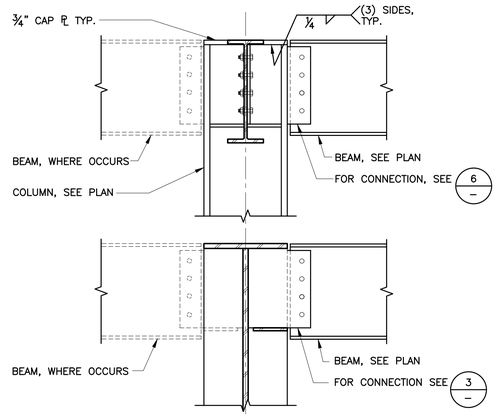
S105-0 SCALE: NO SCALE

BEAM STIFFENER PLATES | 2



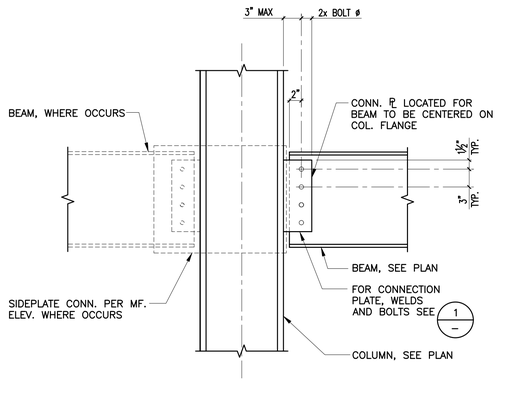
S119-0 SCALE: NO SCALE

BEAM TO HSS OR PIPE COL. CONN. | 12



S104-0 SCALE: NO SCALE

WF COLUMN CAP | 9

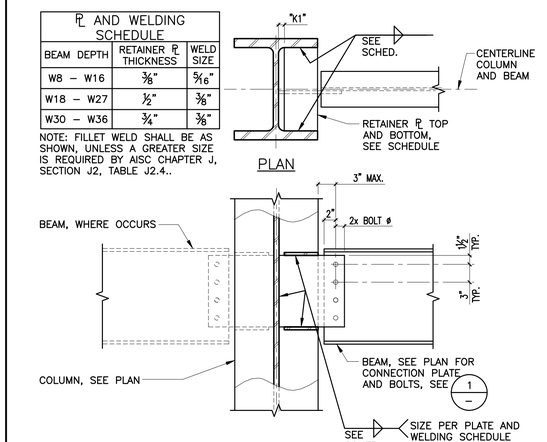


S102-0 SCALE: NO SCALE

BEAM TO WF COL. FLANGE CONN. | 6

PL AND WELDING SCHEDULE		
BEAM DEPTH	RETAINER PL THICKNESS	WELD SIZE
W8 – W16	⅜"	5/16"
W18 – W27	½"	⅜"
W30 – W36	¾"	⅜"

NOTE: FILLET WELD SHALL BE AS SHOWN, UNLESS A GREATER SIZE IS REQUIRED BY AISC CHAPTER J, SECTION J2, TABLE J2.4..



S103-0 SCALE: NO SCALE

BEAM TO WF COL. WEB CONN. | 3

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SHEET TITLE
TYPICAL
STEEL DETAILS

SHEET NUMBER:
S005-02

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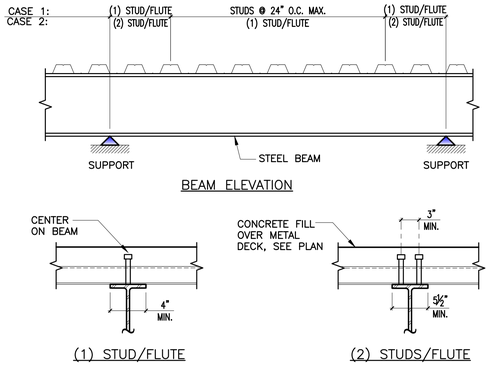
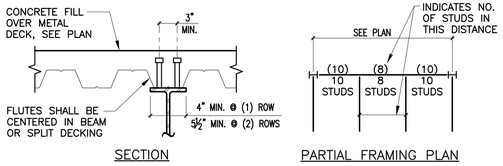


CASE 1: # OF STUDS < # OF FLUTES. WHERE THERE ARE LESS STUDS CALLED FOR ON PLAN THAN DECK DOWN–FLUTES, PROVIDE STUDS AT 24" O.C. MAXIMUM AND ADD STUDS TO MAKE TOTAL NUMBER OF STUDS REQUIRED BEGINNING AT ENDS OF BEAM AND PROCEEDING TO MIDSPAN.

CASE II: # OF STUDS > # OF FLUTES. WHERE THERE ARE MORE STUDS CALLED FOR ON PLAN THAN DECK DOWN–FLUTES, DOUBLE STUDS AS SHOWN TO MAKE TOTAL NUMBER OF STUDS REQUIRED BEGINNING AT ENDS OF BEAMS AND PROCEEDING TO MIDSPAN.

DECKING PERPENDICULAR TO BEAM



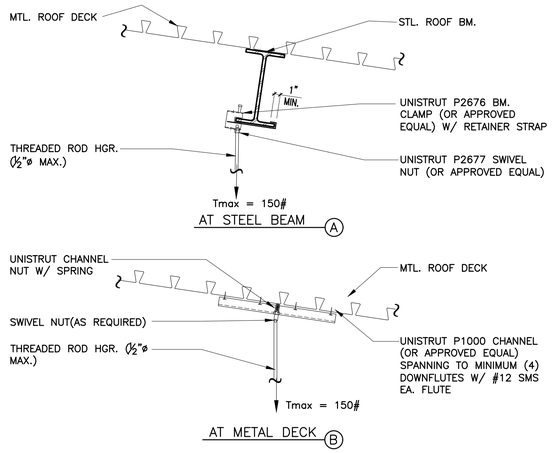
NOTES:
1. STUDS SHALL HAVE A MINIMUM SPACING OF 4½" O.C. ALONG LENGTH OF BEAM.
2. NO MORE THAN 2 STUDS SHALL BE PLACED IN A ROW.

DECKING PARALLEL TO BEAM

NOTES:
1. SHEAR STUDS SHALL BE ¾"x5" LONG HEADED STUDS (U.N.O.) MANUFACTURED BY NELSON STUD WELDING INC. (PER ICC ESR–2856), OR AN APPROVED EQUAL. LENGTH NOTED SHALL BE LENGTH AFTER WELDING.
2. IF NO STUDS ARE INDICATED ON PLANS, PROVIDE ¾"x5" LONG STUDS @ 24" O.C. MINIMUM.
3. WELDING OF STUDS SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

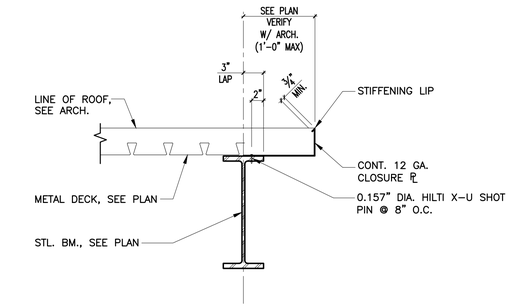
S406–0 SCALE: NO SCALE

COMPOSITE BEAM STUD DETAIL | 11



MERCED–001 SCALE: 1"=1'–0"

THREADED ROD HANGER AT METAL ROOF DECK | 7



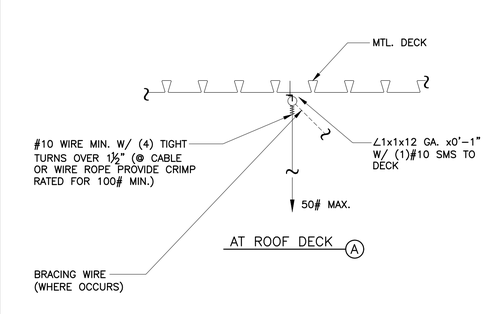
S507–0 SCALE: NO SCALE

TYPICAL ROOF DECK EDGE | 4

FLOOR AND ROOF CONSTRUCTION SCHEDULE		
MARK	DECK CONSTRUCTION	DETAIL
D1	3¼" LIGHTWEIGHT CONCRETE FILL (110 PCF) WITH #3 @ 12" O.C. EACH WAY @ CENTER OF SLAB (MIN. SPLICE = 26", STAGGERED) OVER 3"x18 GA. VENTED METAL DECK (6¼" TOTAL THICKNESS)	2 / –
D2	2.5"x18 GA. EPIC TORIS–A ROOF DECK	3 / –
D3	1½"x18 GA. B–36 ROOF DECK	9 / –
D4	2½" LIGHTWEIGHT CONCRETE FILL (110 PCF) WITH #3 @ 12" O.C. EACH WAY @ CENTER OF SLAB (MIN. SPLICE = 26", STAGGERED) OVER 2"x16GA. VENTED METAL DECK (4½" TOTAL THICKNESS)	2 / –

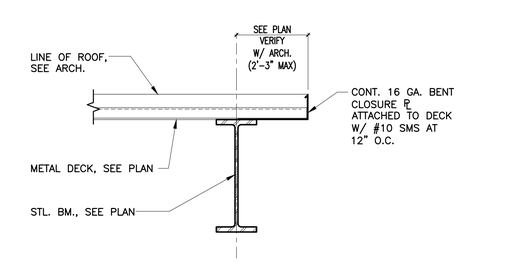
S415–0 SCALE: NO SCALE

FLOOR & ROOF CONST. SCHEDULE | 1



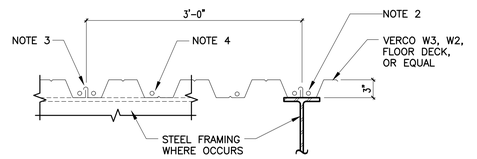
MERCED–002 SCALE: 1"=1'–0"

HANGER WIRE TO DECK | 8



S506–0 SCALE: NO SCALE

TYPICAL ROOF DECK EDGE | 5



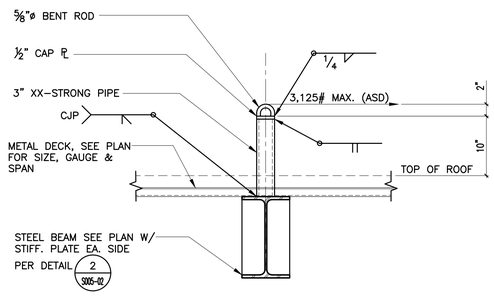
NOTES:
1. ○ INDICATES PUDDLE WELDS.
2. WHERE DECK RIBS ARE PARALLEL TO SUPPORTS USE ½"ø EFFECTIVE PUDDLE WELDS @ 18" O.C.
3. BUTTON PUNCH SIDE LAPS @ 36" O.C.
4. DECK IS TO BE WELDED TO SUPPORTS BY ½"ø EFFECTIVE PUDDLE WELDS AS SHOWN.
5. A SINGLE NELSON STUD ANCHOR WELDED THRU DECKING MAY BE SUBSTITUTED FOR A SINGLE PUDDLE WELD.

MINIMUM DECK PROPERTIES		
PROFILE	2" DEEP	3" DEEP
GAUGE	16 GA.	18 GA.
I in^4	0.707	1.213
S+ (in^3)	0.623	0.752
S– (in^3)	0.638	0.768

(CONC. FILLED DECK)

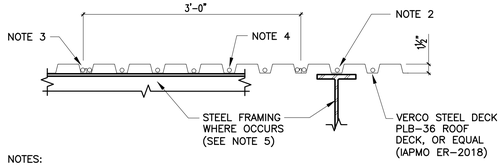
S404–0 SCALE: NO SCALE

FLOOR DECK WELDING & SEC. PROP. | 2



MERCED–027 SCALE: 1"=1'–0"

ROOF TIE–ON STANCHION DETAIL | 12

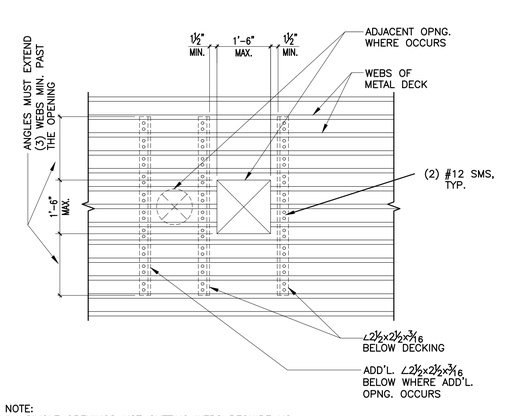


NOTES:
1. ○ INDICATES PUDDLE WELDS.
2. WHERE DECK RIBS ARE PARALLEL TO SUPPORTS USE ½" EFFECTIVE PUDDLE WELD @ 12" O.C.
3. SEAM ATTACHMENT TO BE VERCO VSC2 @ 12" O.C.
4. DECK IS TO BE WELDED TO SUPPORTS BY ½" EFFECTIVE PUDDLE WELDS AS SHOWN.
5. METAL DECK SHALL BE ATTACHED TO ALL STRUCTURAL STEEL MEMBERS (HSS AND WF) REGARDLESS OF DECK DIRECTION

MINIMUM DECK PROPERTIES	
GAUGE	18
I in^4	0.306
S+ (in^3)	0.314
S– (in^3)	0.331

S502–0 SCALE: NO SCALE

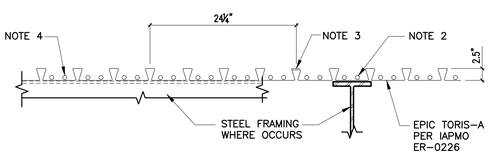
ROOF DECK WELDING & SECT. PROP. | 9



NOTE:
1. SINGLE OPENINGS NOT CUTTING WEBS REQUIRE NO ANGLES.

S503–0 SCALE: NO SCALE

OPENING THRU ROOF DECK | 6



NOTES:
1. ○ INDICATES LOCATION OF HILTI X–ENP–19 L15 PINS, TWO EACH DOWN FLUTE, TYP. (ICC ESR–2197)
2. WHERE DECK RIBS ARE PARALLEL TO SUPPORTS USE HILTI PINS @ 24" O.C.
3. SEAM ATTACHMENT TO BE #12 TEK SCREWS @ 12" O.C.(ICC ESR–2196)
4. DECK IS TO BE ATTACHED TO ALL STEEL BEAMS W/ HILTI PINS AT LOCATIONS SHOWN

D1 – MINIMUM DECK PROPERTIES	
GAUGE	18 ACOUSTICAL
I in^4	0.98
S+ (in^3)	0.63
S– (in^3)	0.58

S502–0 SCALE: NO SCALE

ROOF DECK ATTACHMENT & SECT. PROP. | 3

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DATE: 01/08/2026

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PROJECT:
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MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

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SHEET TITLE
TYPICAL
METAL DECK DETAILS

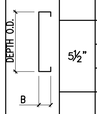
SHEET NUMBER:
S006-02

HDS STUD SCHEDULE

DEPTH	GAUGE	B	A	AREA (IN^2)	I (IN^4)	S (IN^3)	MAX SPACING OF STUD BRACING
3⅝"	16	3	1.0625"	0.715	1.483	0.818	4'–0"
4"	16	3	1.0625"	0.736	1.869	0.934	4'–0"
6"	16	3	2.25"	0.984	4.856	1.619	4'–0"
8"	16	3	2.25"	1.097	9.843	2.461	4'–0"

DIETRICH HDS PER CCRR–0206

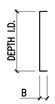
STUD SCHEDULE



DEPTH	GAUGE	B	AREA (IN^2)	I (IN^4)	S (IN^3)	MAX. INTERIOR STUD WALL HT.*	SSMA DESIGNATION
2½"	20	1⅝"	.223	.235	.188	12'–0"	250S162–33
	18	1⅝"	.289	.302	.242	13'–0"	250S162–43
	16	1⅝"	.358	.370	.296	15'–0"	250S162–54
4"	20	1⅝"	.275	.692	.346	18'–11"	400S162–33
	18	1⅝"	.357	.892	.446	20'–7"	400S162–43
	16	1⅝"	.443	1.098	.549	22'–1"	400S162–54
5½"	20	1⅝"	.327	1.458	.530	24'–4"	550S162–33
	18	1⅝"	.424	1.883	.685	26'–5"	550S162–43
	16	1⅝"	.528	2.324	.845	28'–5"	550S162–54
6"	20	1⅝"	.344	1.793	.598	26'–0"	600S162–33
	18	1⅝"	.447	2.316	.772	28'–4"	600S162–43
	16	1⅝"	.556	2.860	.953	30'–4"	600S162–54
8"	20	1⅝"	.413	3.582	.896	32'–9"	800S162–33
	16	1⅝"	.670	5.736	1.434	35'–8"	800S162–54
	14	2"	.907	8.140	2.035	38'–4"	800S200–68
10"	16	2"	.839	11.278	2.256	38'–4"	1000S200–54
12"	14	2"	1.192	21.947	3.658	38'–4"	1200S200–68

* MAX. HEIGHT PER SCHEDULE BASED ON SSMA CATALOG FOR INTERIOR, NON–BEARING WALLS WITH 5 PSF LATERAL LOAD @ L/240 @ 16" O.C.

TRACK SCHEDULE



DEPTH	GAUGE	B	AREA (IN^2)	I (IN^4)	S (IN^3)	SSMA DESIGNATION
2½"	20	1½"	.190	.221	.167	250T150–33
	18	1½"	.248	.289	.217	250T150–43
	16	1½"	.311	.368	.273	250T150–54
4"	20	1½"	.242	.622	.300	400T150–33
	18	1½"	.315	.811	.390	400T150–43
	16	1½"	.396	1.025	.489	400T150–54
5½"	20	1½"	.294	1.295	.459	600T150–33
	18	1½"	.383	1.688	.596	600T150–43
	16	1½"	.480	2.128	.747	600T150–54
6"	20	1½"	.311	1.590	.517	600T150–33
	18	1½"	.405	2.072	.673	600T150–43
	16	1½"	.509	2.611	.843	600T150–54
8"	20	1½"	.380	3.180	.781	800T150–33
	16	1½"	.622	5.214	1.272	800T150–54
	14	1½"	.783	6.594	1.599	800T150–68
10"	16	1½"	.735	9.061	1.777	1000T150–54
12"	14	1½"	1.068	18.148	2.963	1200S200–68

NOTES:
1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE AND GAUGE OF STUDS. PROVIDE MIN. 20 GA. STUDS FOR INTERIOR CONDITIONS, AND 16 GA. FOR EXTERIOR, U.N.O.
2. DIMENSIONS, PROPERTIES AND TYPES NOTED ARE BASED ON METAL STUDS AND TRACKS BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA), ICC ER–3064P, U.N.O.
3. USE 10"X16GA @16"O.C. FOR EXTERIOR WALLS LESS THAN 29'–6" HEIGHT; USE DOUBLE 10"X16GA @16"O.C. FOR EXTERIOR WALLS GREATER THAN 29'–6" HEIGHT;

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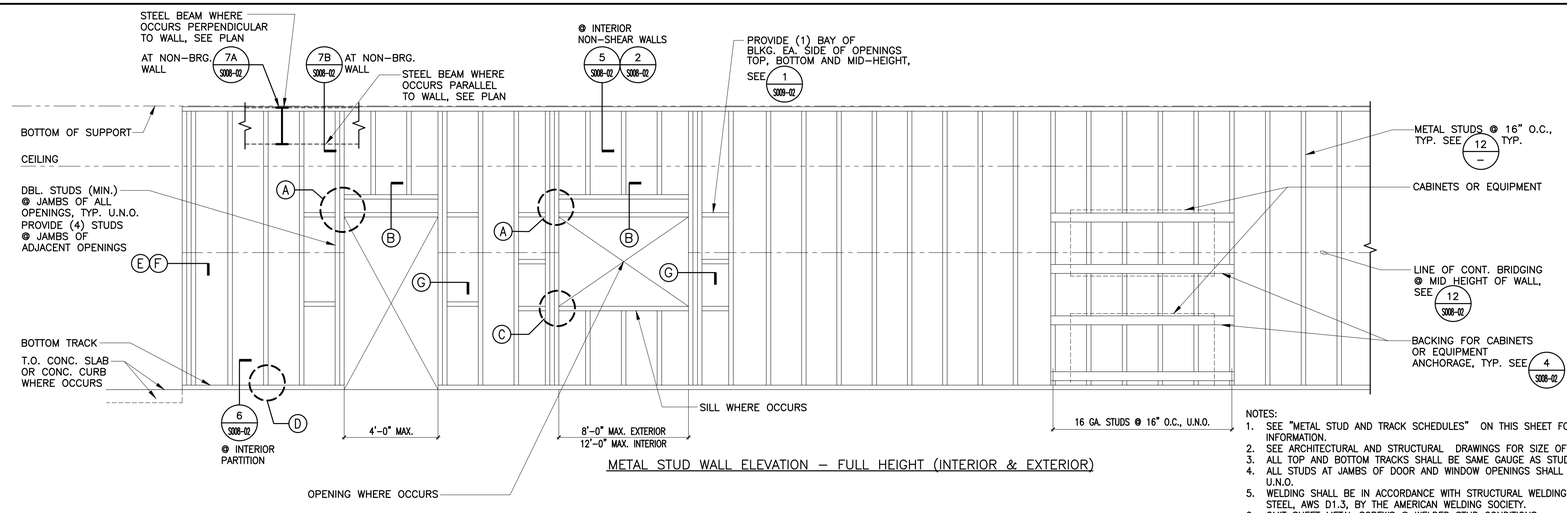
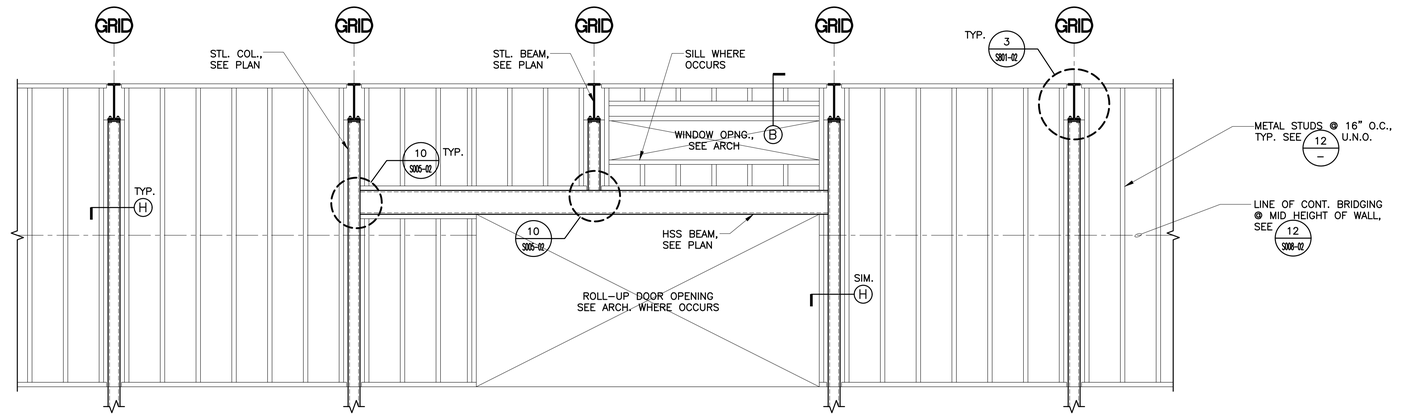
S615–0 SCALE: NO SCALE

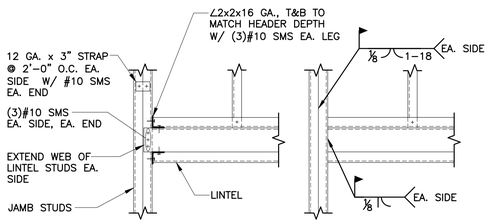


METAL STUD WALL ELEVATION – FULL HEIGHT (INTERIOR & EXTERIOR)

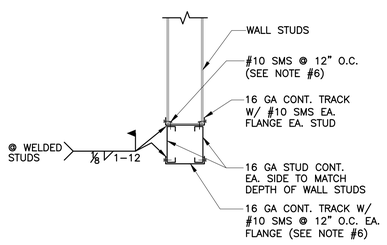
NOTES:
1. SEE "METAL STUD AND TRACK SCHEDULES" ON THIS SHEET FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SIZE OF STUDS.
3. ALL TOP AND BOTTOM TRACKS SHALL BE SAME GAUGE AS STUDS, U.N.O.
4. ALL STUDS AT JAMBS OF DOOR AND WINDOW OPENINGS SHALL BE 16 GAUGE, U.N.O.
5. WELDING SHALL BE IN ACCORDANCE WITH STRUCTURAL WELDING CODE – SHEET STEEL, AWS D1.3, BY THE AMERICAN WELDING SOCIETY.
6. OMIT SHEET METAL SCREWS @ WELDED STUD CONDITIONS.



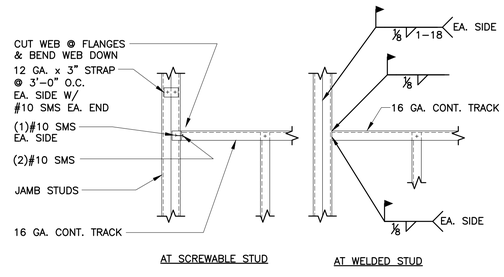
METAL STUD WALL ELEVATION – EXTERIOR



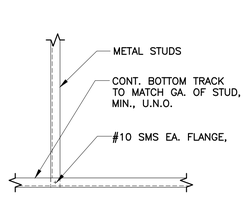
LINTEL TO JAMB (A)



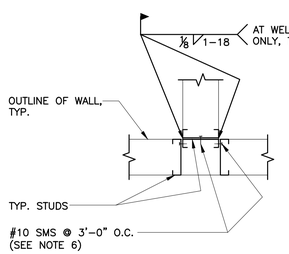
LINTEL SECTION (B)



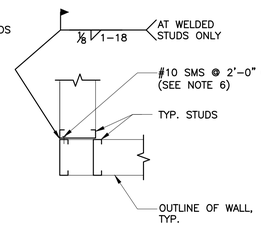
TRACK TO JAMB (C)



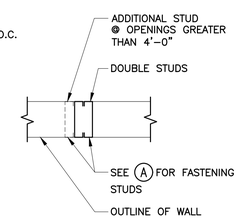
STUD TO TRACK (D)



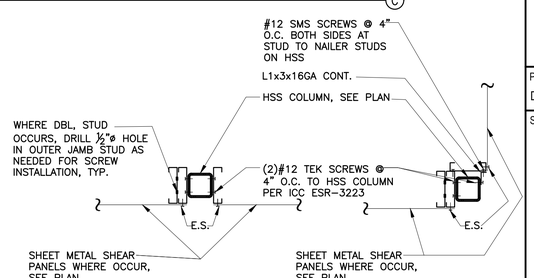
TYP. INTERSECTION (E)



TYPICAL CORNER (F)



MULTIPLE STUDS (G)



AT HSS COLUMN (H)

S604–0 SCALE: NO SCALE

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MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TYPICAL
METAL STUD DETAILS

SHEET NUMBER:
S007-02

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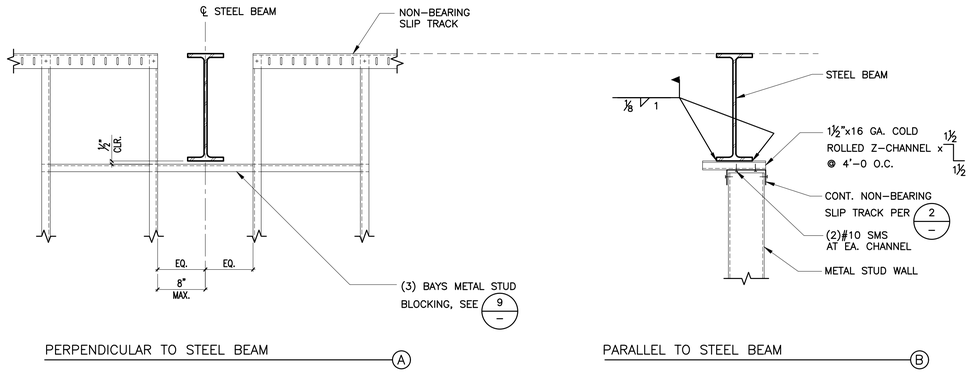
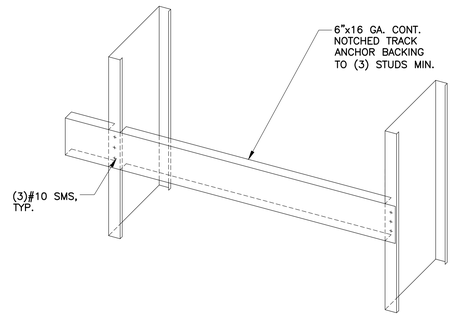


S803–0 SCALE: NO SCALE

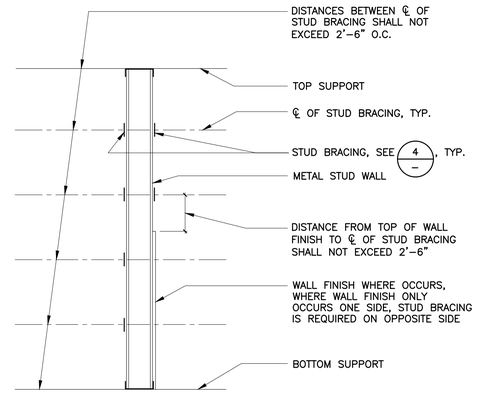
NON-BEARING METAL STUD TOP AT STEEL BEAM (FULL HEIGHT WALL) | 7



NOTE:
USE #10 SMS WHEN ATTACHING ITEMS TO BACKING, U.N.O.

S620–0 SCALE: NO SCALE

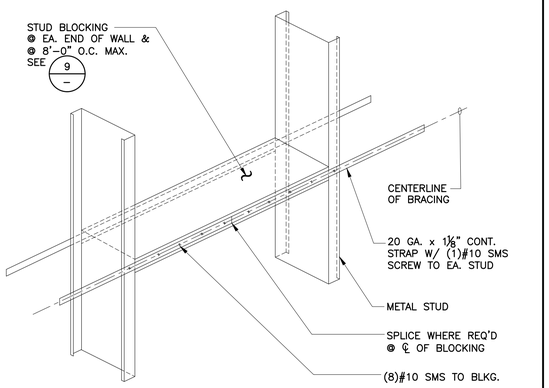
BACKING AT METAL STUDS | 4



NOTE:
WHERE WALL FINISH OCCURS BOTH SIDES OF WALL, FOR FULL HEIGHT OF STUD, BRACING IS NOT REQUIRED, U.N.O.

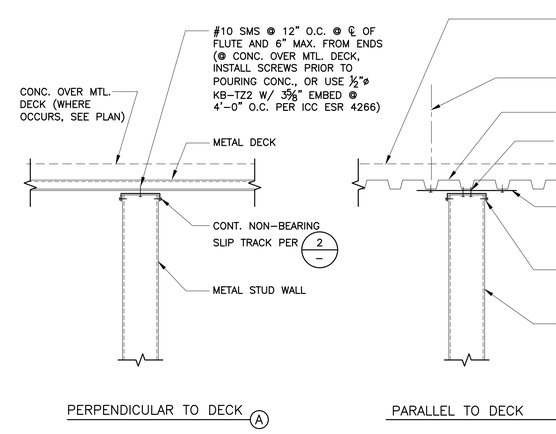
S616–0 SCALE: NO SCALE

WALL STUD BRACING LOCATION | 1



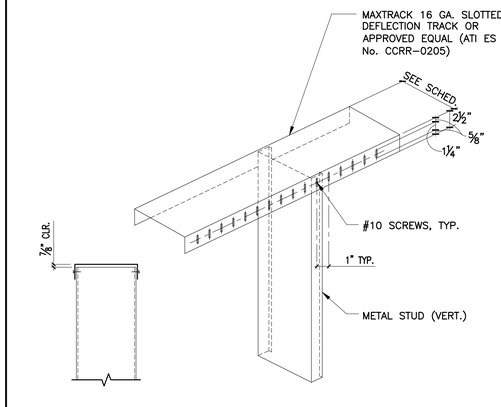
S618–0 SCALE: NO SCALE

METAL STUD BRACING | 11



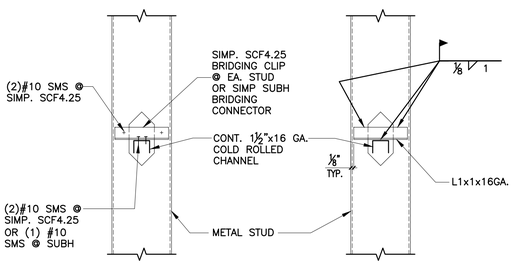
S810–0 SCALE: NO SCALE

NON-BEARING METAL STUD PARTITION TOP (FULL HEIGHT WALL) | 5



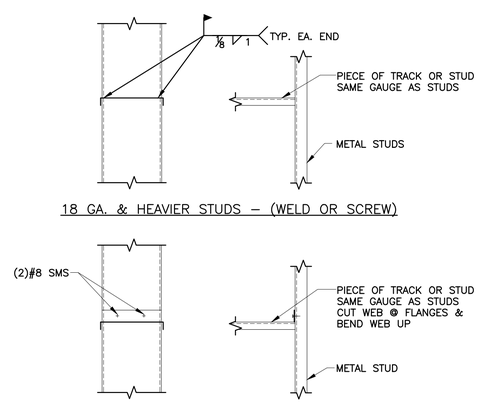
S711–0 (NON–BEARING) SCALE: NO SCALE

METAL STUD TOP TRACK | 2



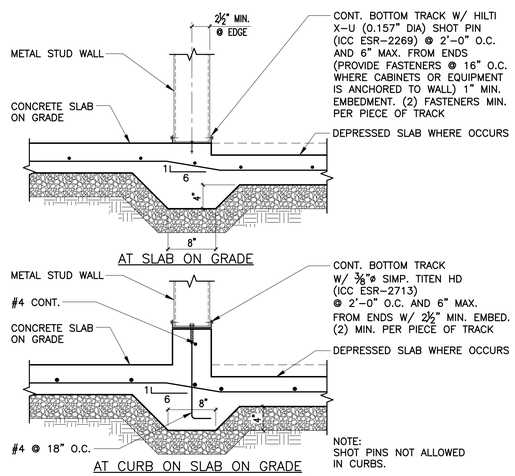
S619–0 SCALE: NO SCALE

METAL STUD BRIDGING | 12



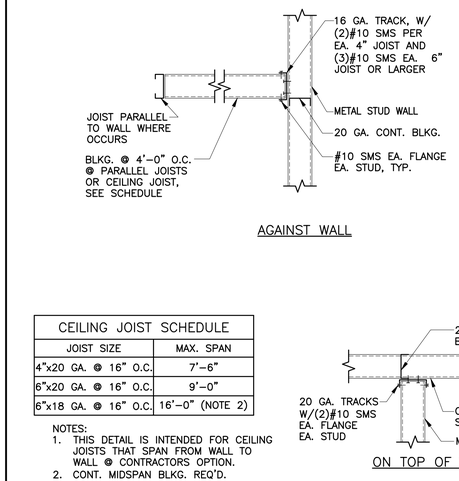
S617–0 SCALE: NO SCALE

METAL STUD BLOCKING | 9



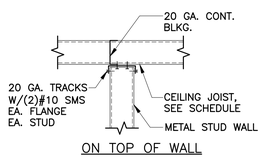
S704–0 SCALE: NO SCALE

NON-BEARING METAL STUD BOTTOM | 6



CEILING JOIST SCHEDULE	
JOIST SIZE	MAX. SPAN
4"x20 GA. @ 16" O.C.	7'–6"
6"x20 GA. @ 16" O.C.	9'–0"
6"x18 GA. @ 16" O.C.	16'–0" (NOTE 2)

NOTES:
1. THIS DETAIL IS INTENDED FOR CEILING JOISTS THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION.
2. CONT. MIDSPAN BLKG. REQ'D.



S712–0 SCALE: NO SCALE

CEILING JOIST SCHEDULE & DETAILS | 3

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MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

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SHEET TITLE

TYPICAL
METAL STUD DETAILS

SHEET NUMBER:

S008-02

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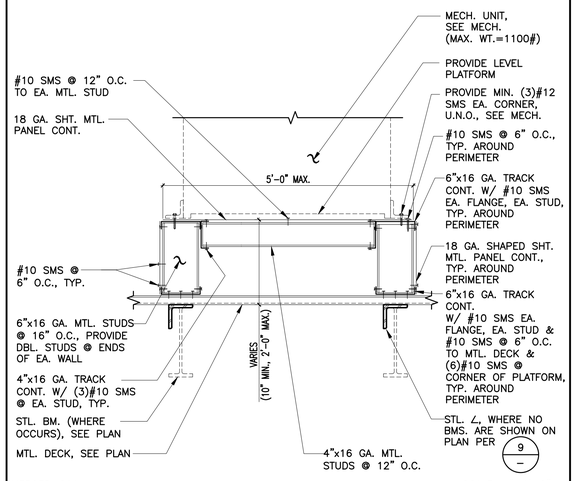
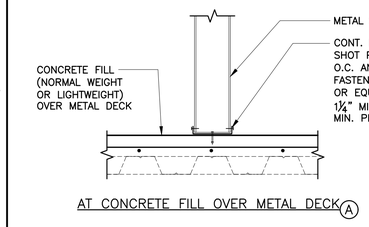


MERCED–061 SCALE: 1"=1'–0"

MECH. UNIT PLATFORM | 10

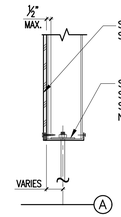


AT CONCRETE FILL OVER METAL DECK A

S809–0 SCALE: NO SCALE

NON-BEARING METAL STUD BOTTOM | 7

BOLT SIZE	MALLEABLE IRON WASHER	STEEL PLATE WASHER	SIMPSON PRODUCT
½"ø	¼"x2½"ø	¼"x4½"x3"	BPS½–6
⅝"ø	5/16"x2½"ø	¼"x4½"x3"	BPS⅝–6
¾"ø	⅜"x3"ø	5/16"x4½"x3"	BPS¾–6
⅞"ø	7/16"x3½"ø	⅜"x3½"x3½"	BP⅞
1"ø	½"x4"ø	7/16"x4"x4"	BP1

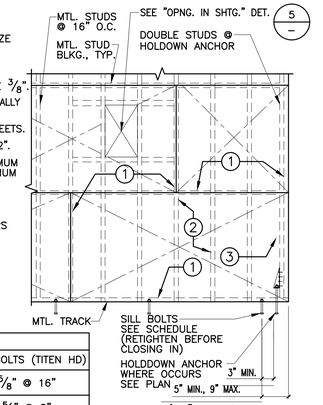


NOTE:
PROVIDE STANDARD CUT WASHERS UNDER ALL HEADS AND NUTS BEARING ON TRACK EXCEPT WHERE SPECIFICALLY NOTED ON DRAWINGS.

W112A–0 SCALE: NO SCALE

METAL STUD FRAMING WASHER SCHEDULE | 4

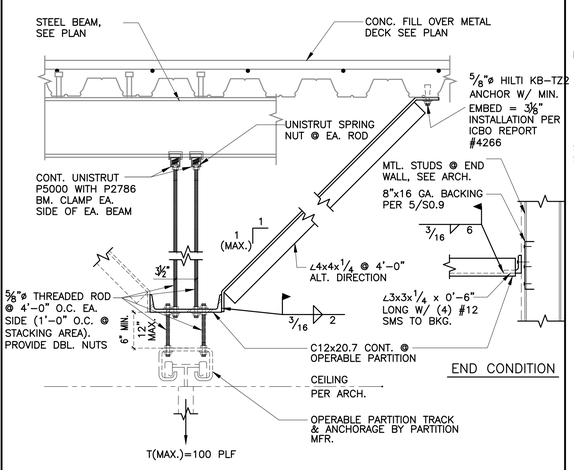
NOTES:
1. EDGE SCREWS (E.S.), SEE SCHEDULE.
2. INTERMEDIATE SCREWS @ 12", SAME SIZE AS E.S.
3. E.S. ALONG DOUBLE STUDS WHERE HOLDOWN ANCHOR OCCURS.
4. EDGE DISTANCE FOR SCREWS SHALL BE ⅜".
5. STEEL SHEETS MAY BE INSTALLED HORIZONTALLY OR VERTICALLY, STAGGERED JOINTS.
6. SEE PLAN FOR LOCATION OF STEEL SHEETS.
7. MINIMUM STEEL SHEETS WIDTH SHALL BE 12".
8. STEEL SHEETS SCREWS SHALL BE MINIMUM 1" LONG FLAT HEAD SCREW WITH MINIMUM HEAD DIAMETER OF 0.292 INCH.
9. STAGGER E.S. ALONG ADJOINING PANEL EDGES.
10. SILL BOLTS SHALL HAVE PLATE WASHERS PER 6/—



SHEATHED WALL SCHEDULE			
MARK	THICKNESS	E.S.	SILL BOLTS (TITEN HD)
A	0.027"	#10 @ 2"	⅝" @ 16"
B	0.027" STEEL SHT. EA. SIDE	#10 @ 4"	⅝" @ 8"
C	0.027" STEEL SHT. EA. SIDE	#10 @ 2"	⅝" @ 8"

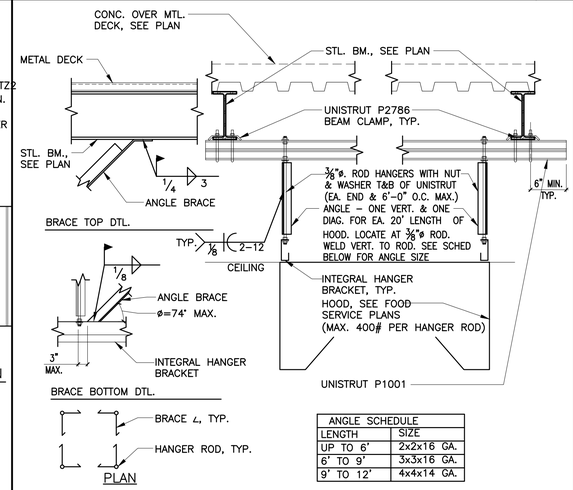
TLS32–007 SCALE: 1"=1'–0"

STEEL SHEET SHEARWALL - METAL STUD WALLS | 1



MERCED–019 SCALE: 1"=1'–0"

TYP. OPERABLE WALL ANCHORAGE | 11



ANGLE SCHEDULE	
LENGTH	SIZE
UP TO 6'	2x2x16 GA.
6' TO 9'	3x3x16 GA.
9' TO 12'	4x4x14 GA.

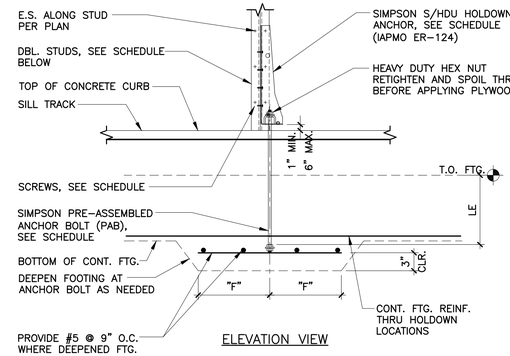
MERCED–043 SCALE: 1"=1'–0"

DETAIL | 8

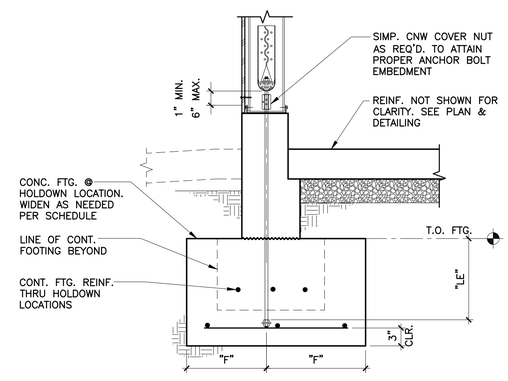
NOTES:
1. DO NOT CUT STUDS UNLESS SPECIFICALLY DETAILED.
2. MAX. VERT. DIMENSION = 2x HORIZONTAL DIMENSION.
3. IF OPENINGS LINE UP HORIZONTALLY, NO MORE THAN ONE OPENING IN EVERY TEN STUD SPACES IS PERMITTED.

MERCED–025 SCALE: NO SCALE

TYP. OPENING IN SHEATHING | 5



ELEVATION VIEW

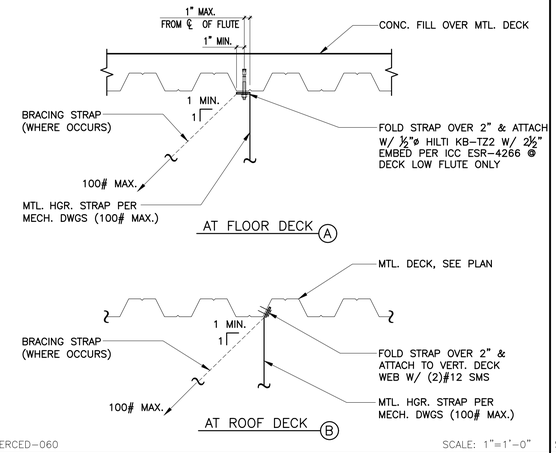


SECTION VIEW

SCREW & BOLT SCHEDULE					
HOLDOWN	# OF #14 SELF–DRILLING SCREWS, U.N.O.	MIN. POST	"LE"	PAB SIZE	"F"
S/HDU4	6	(2) 16 GA. STUDS	6½"	PAB5 5/8"ø	10"
S/HDU6	12	(2) 16 GA. STUDS	6½"	PAB5 5/8"ø	10"
S/HDU9	18	(2) 16 GA. STUDS	12"	PAB7 7/8"ø	18"
S/HDU11	27	(2) 16 GA. STUDS	12"	PAB7 7/8"ø	18"

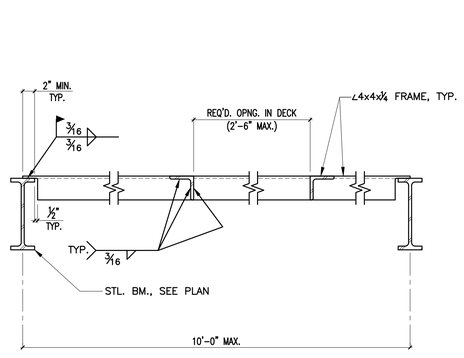
MERCED–026 SCALE: NO SCALE

HOLDOWN ANCHORS | 3



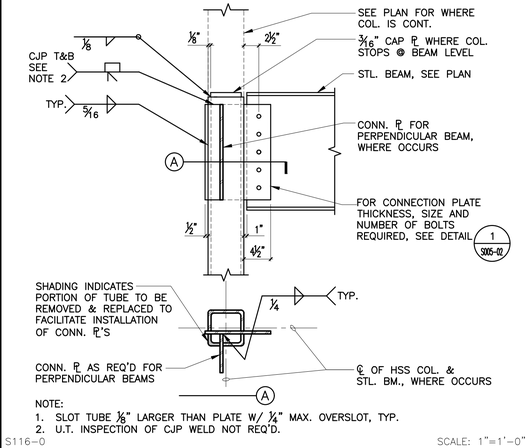
MERCED–060 SCALE: 1"=1'–0"

MEP/DUCT SUPPORT | 12



S509–0 SCALE: NO SCALE

TYPICAL ANGLE DROP IN FRAME | 9



NOTE:
1. SLOT TUBE ⅛" LARGER THAN PLATE W/ ¼" MAX. OVERSLOT, TYP.
2. U.T. INSPECTION OF CJP WELD NOT REQ'D.

S116–0 SCALE: 1"=1'–0"

BEAM TO SIDE OF HSS COL. CONN. (ONE SIDE) | 6

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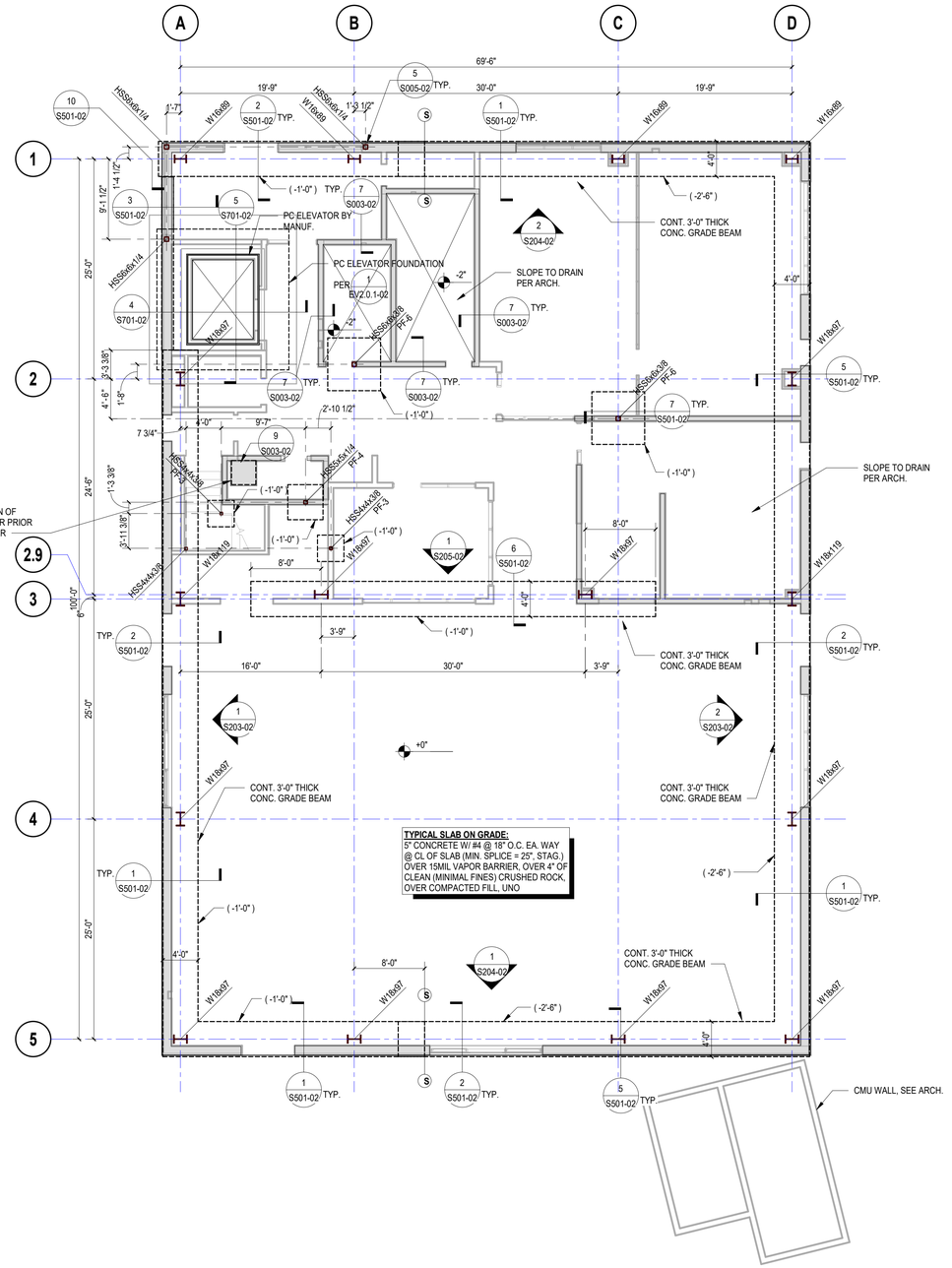
SHEET TITLE
TYPICAL
METAL STUD DETAILS

SHEET NUMBER:
S009-02



FOUNDATION PLAN

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

FOUNDATION PLAN NOTES

1. SEE SHEETS S001-02 THROUGH S009-02 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND KITCHEN DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
11. FOR TYPICAL SLAB JOINTS, SEE DETAIL 6/S003-02.

LEGEND

W12x65 PF-2 (-1'-0") : INDICATES STEEL OR WOOD COLUMN SIZE. SEE DETAIL 5/S005-02 FOR STEEL COLUMN BASE PLATE, U.N.O.

: INDICATES CONCRETE FOOTING. SEE DETAIL 5/S004-02 FOR ADDITIONAL INFORMATION.

: INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.

: INDICATES EXTERIOR 10"x16 GA. MTL. STUD WALL.

S S : INDICATES STEP IN CONTINUOUS FOOTING. SEE DETAILS 3/S003-02 FOR ADDITIONAL INFORMATION. STEP CONTINUOUS FOOTING TO MATCH BOTTOM OF LOWEST ADJACENT FOOTING ELEVATION.

: INDICATES CONCRETE CURB. PER DETAIL 9/S003-02.

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SHEET TITLE

FOUNDATION PLAN - MAIN BUILDING

SHEET NUMBER:

S200-02

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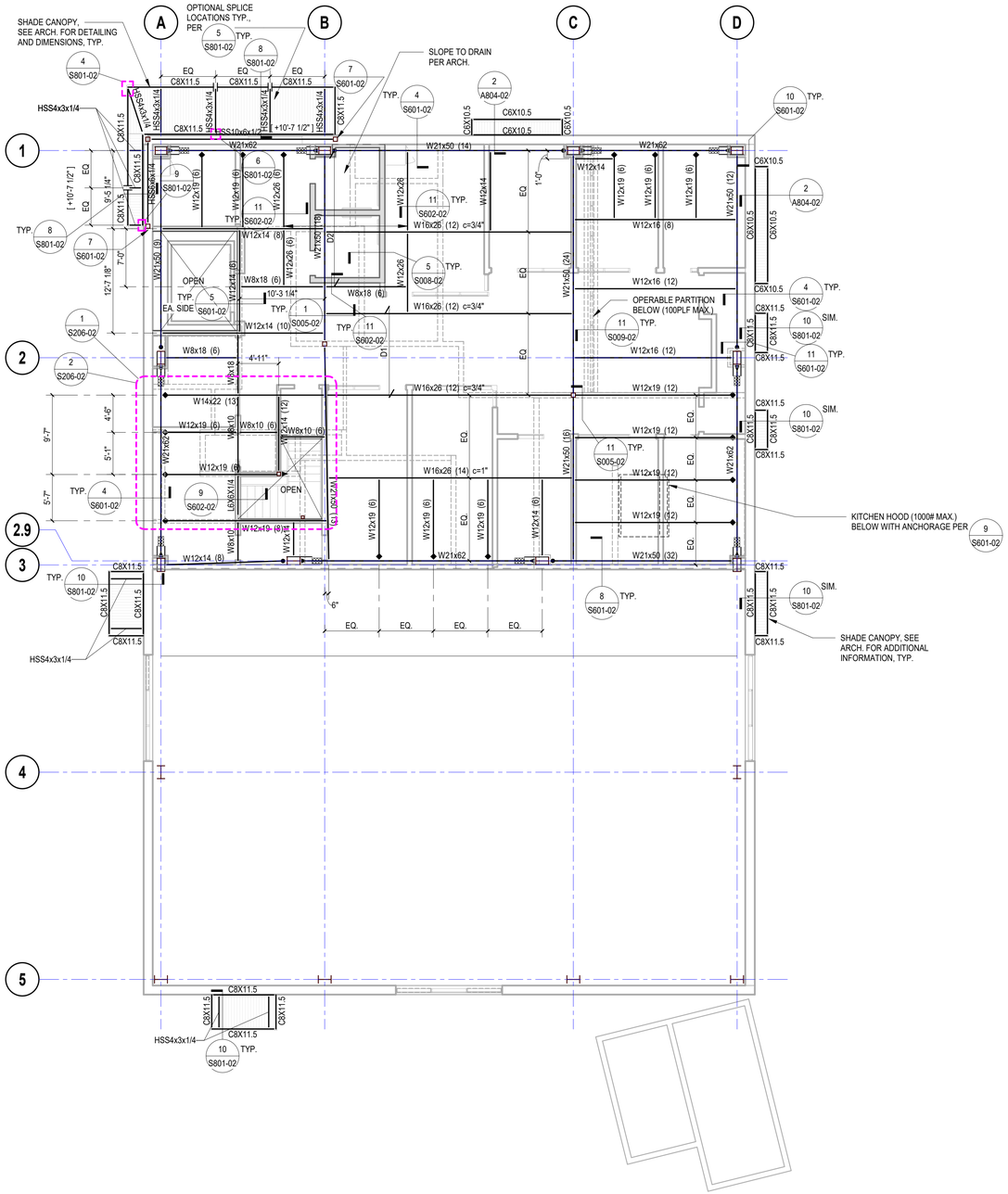

FLOOR FRAMING PLAN

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

FLOOR FRAMING PLAN NOTES

1. SEE SHEETS S001-02 THROUGH S009-02 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR OPENINGS NOT SHOWN ON FLOOR FRAMING PLANS. SEE DETAIL 6/S006-02 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
4. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL COORDINATE LOCATION OF ALL FRAMING ARCHITECTURE BEAMS AT MECHANICAL UNITS WITH MECHANICAL DRAWINGS. THE LOCATION OF FRAMING SHALL MATCH CURB LAYOUT AND ROOF PENETRATIONS FOR THE SUPPLIED UNITS.

LEGEND

- [+ 10'-0"] : INDICATES TOP OF STEEL ELEVATION.
- SFRS : INDICATES A LINE OF FRAMING PART OF THE SEISMIC FORCE RESISTING SYSTEM
- : INDICATES SPAN OF METAL DECK. DECK SPAN DECK SHALL SPAN OVER 2 SPANS MINIMUM (3 SUPPORTS) AND 3 SPANS (4 SUPPORTS) WHEREVER POSSIBLE. SEE FLOOR AND ROOF CONSTRUCTION SCHEDULE ON DETAIL 1/S006-02 FOR STRUCTURAL DECK AND FILL REQUIREMENTS.
- : INDICATES EXTENT OF METAL DECK
- c=1 1/2" : INDICATES AMOUNT OF CAMBER IN STEEL BEAM. NO CAMBER REQUIRED WHERE NONE SHOWN.
- : INDICATES MOMENT FRAME BEAM BRACE PER DETAIL 7/S005-02 .
- : INDICATES TYPICAL CONNECTION WITH ASTM A325SC BOLTS PER DETAIL 1/S005-02, 3/S005-02, 6/S005-02, AND 9/S005-02.
- : INDICATES WELDED MOMENT CONNECTION.
- : INDICATES CONCRETE CURB. PER DETAIL 9/S003-02.

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FLOOR FRAMING PLAN - MAIN BUILDING

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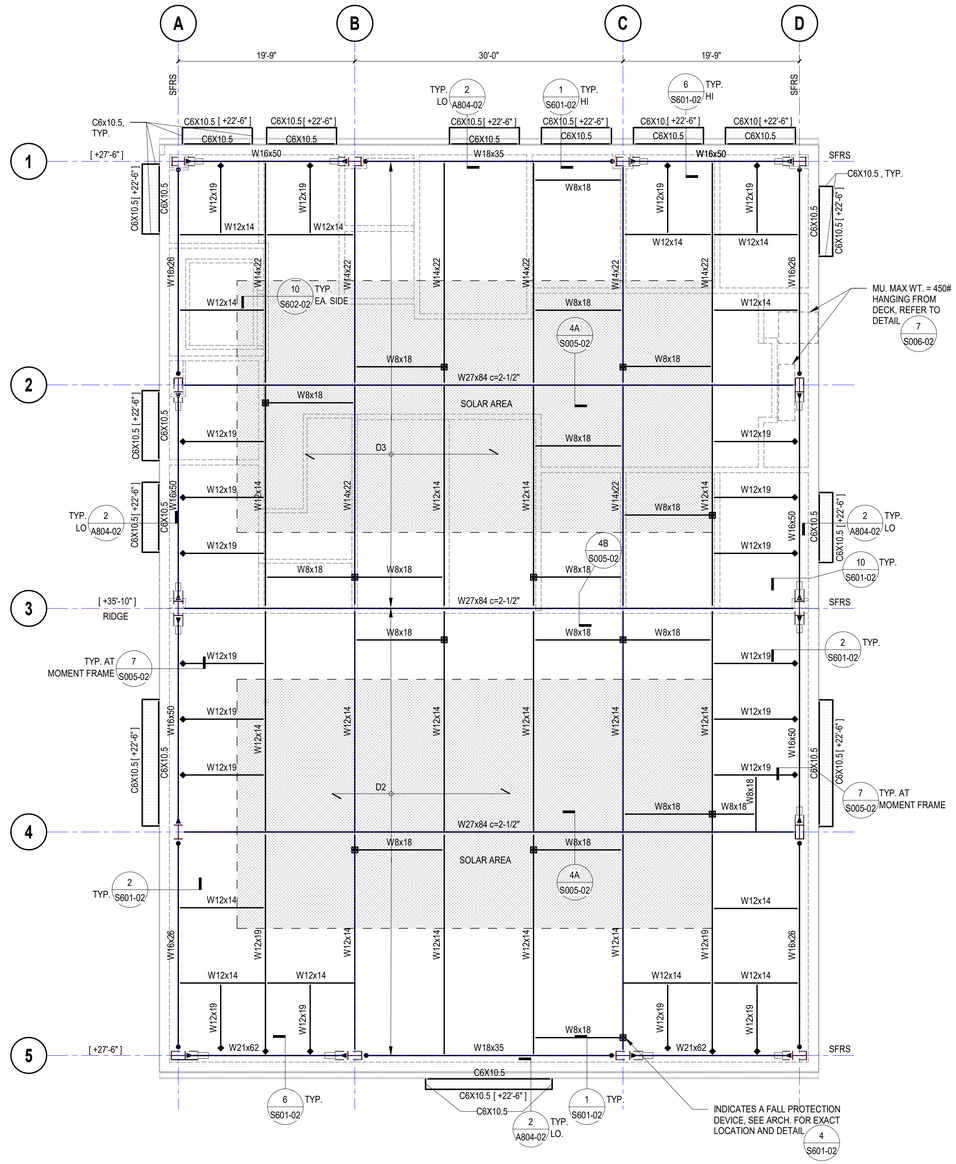

ROOF FRAMING PLAN

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

ROOF FRAMING PLAN NOTES

1. SEE SHEETS S001-02 THROUGH S009-02 FOR GENERAL NOTES AND TYPICAL DETAILS.

2. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR OPENINGS NOT SHOWN ON FLOOR FRAMING PLANS. SEE DETAIL 6/S0.6 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.

4. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.

5. THE CONTRACTOR SHALL COORDINATE LOCATION OF ALL FRAMING ARCHITECTURE BEAMS AT MECHANICAL UNITS WITH MECHANICAL DRAWINGS. THE LOCATION OF FRAMING SHALL MATCH CURB LAYOUT AND ROOF PENETRATIONS FOR THE SUPPLIED UNITS.

LEGEND

[+ 10'-0"] : INDICATES TOP OF STEEL ELEVATION.

SFRS : INDICATES A LINE OF FRAMING PART OF THE SEISMIC FORCE RESISTING SYSTEM

: INDICATES SPAN OF METAL DECK. DECK SPAN DECK SHALL SPAN OVER 2 SPANS MINIMUM (3 SUPPORTS) AND 3 SPANS (4 SUPPORTS) WHEREVER POSSIBLE. SEE FLOOR AND ROOF CONSTRUCTION SCHEDULE ON DETAIL 1/S006-02 FOR STRUCTURAL DECK AND FILL REQUIREMENTS.

: INDICATES EXTENT OF METAL DECK.

c=1 1/2" : INDICATES AMOUNT OF CAMBER IN STEEL BEAM. NO CAMBER REQUIRED WHERE NONE SHOWN.

: INDICATES TYPICAL CONNECTION WITH ASTM A325SC BOLTS PER DETAIL 1/S005-02.

: INDICATES WELDED MOMENT CONNECTION.

: INDICATES FALL PROTECTION DEVICE, SEE ARCH AND DETAIL 12/S006-02.

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ROOF FRAMING PLAN - MAIN BUILDING

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S202-02

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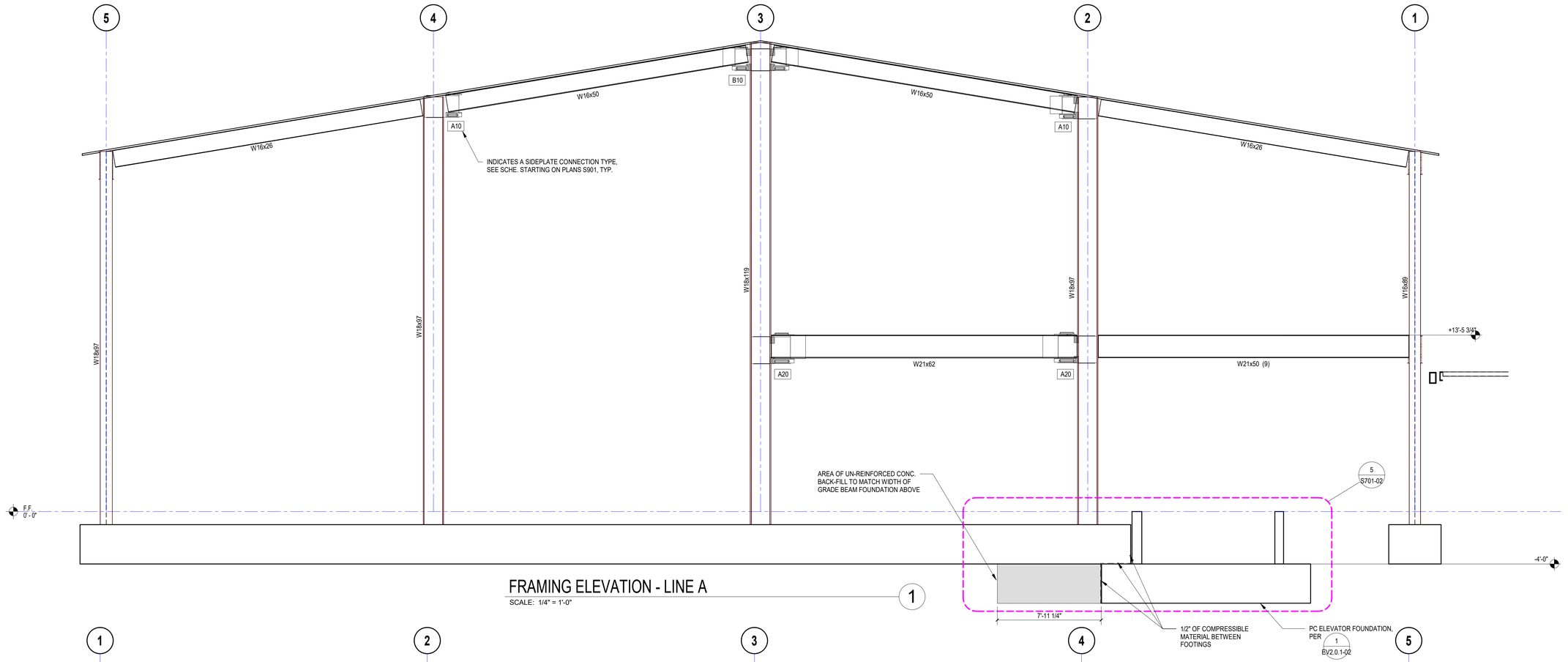
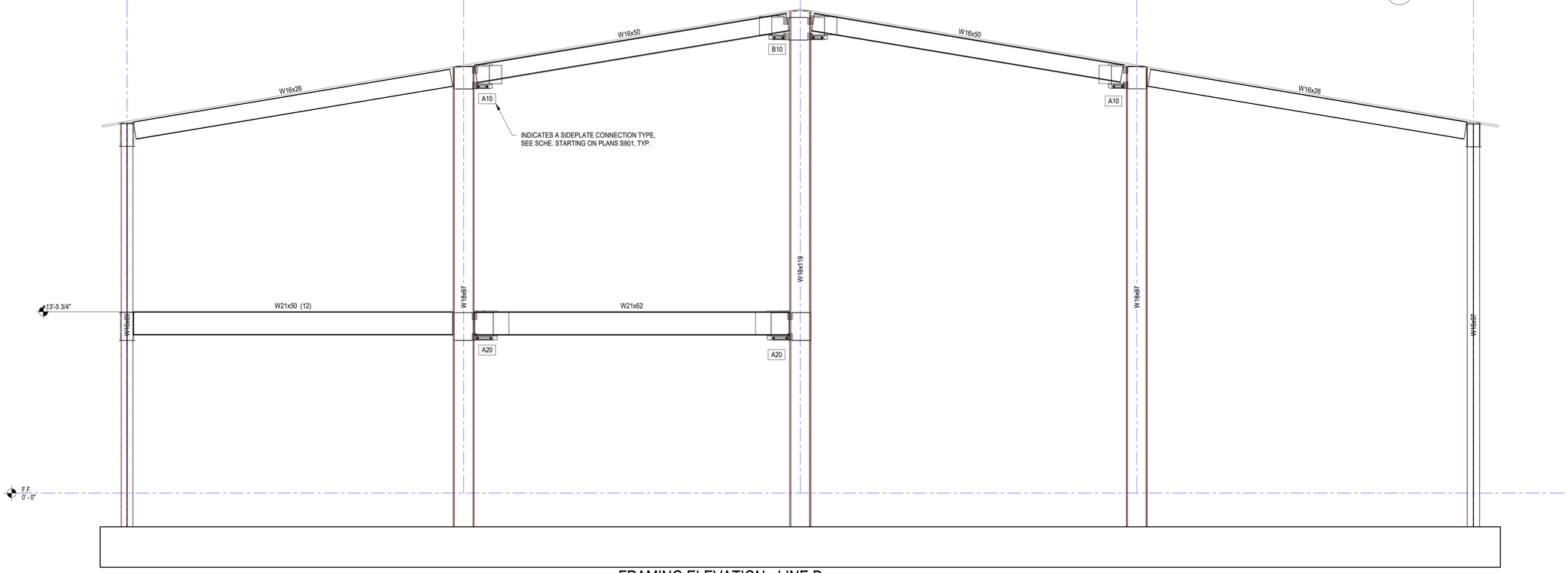


FRAMING ELEVATION - LINE A

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

1



FRAMING ELEVATION - LINE D

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

2

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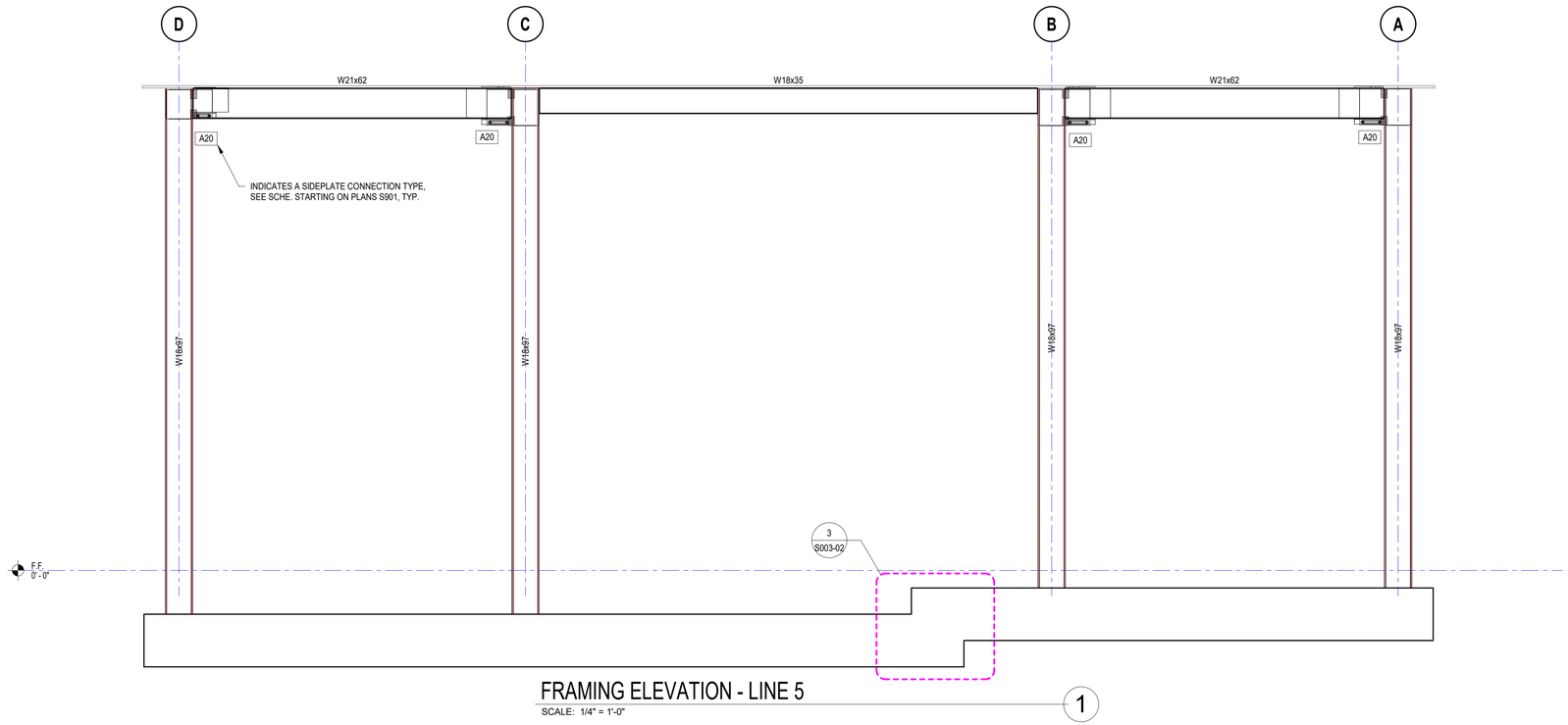
FRAMING ELEVATIONS

SHEET NUMBER:

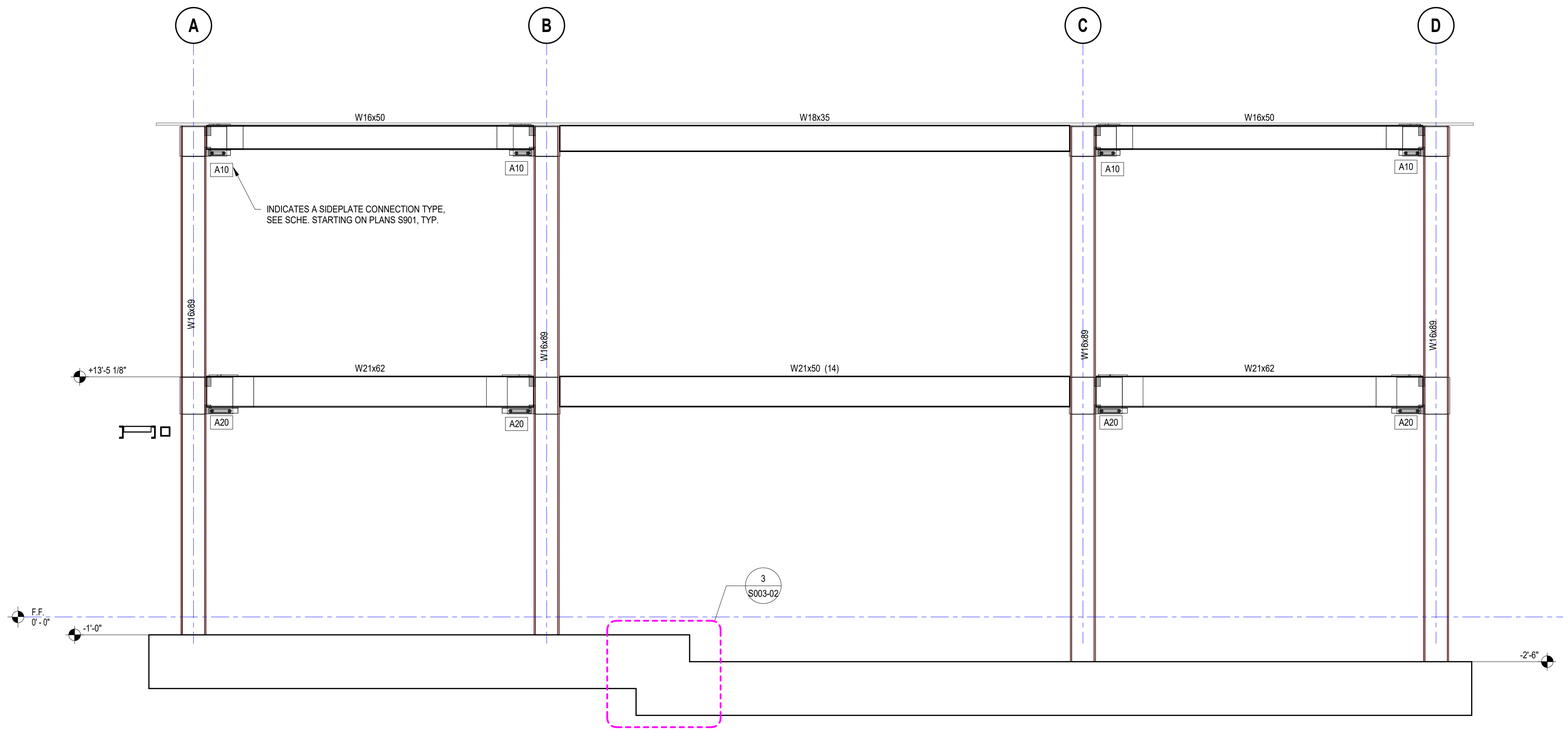
S203-02



FRAMING ELEVATION - LINE 5

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

1



FRAMING ELEVATION - LINE 1

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

2

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RTM JOB NO.: 450.043

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5982
Exp. 12-31-26

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MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

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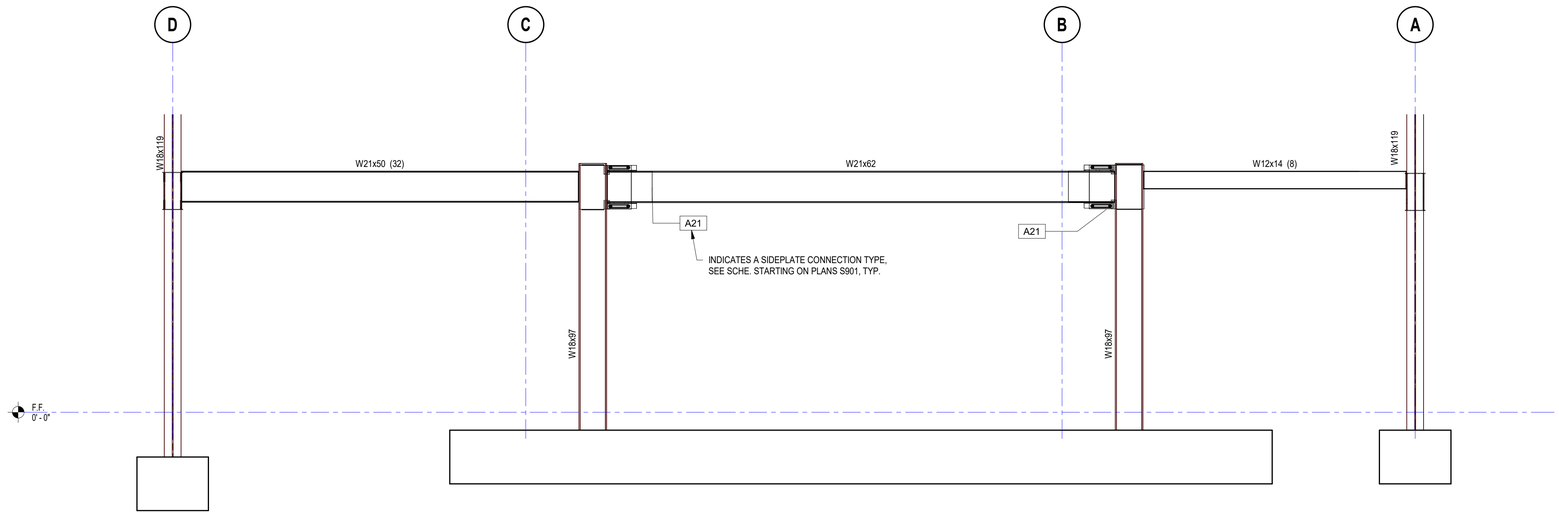
SHEET TITLE

FRAMING ELEVATIONS

SHEET NUMBER:

S204-02



FRAMING ELEVATION - LINE 3

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

1

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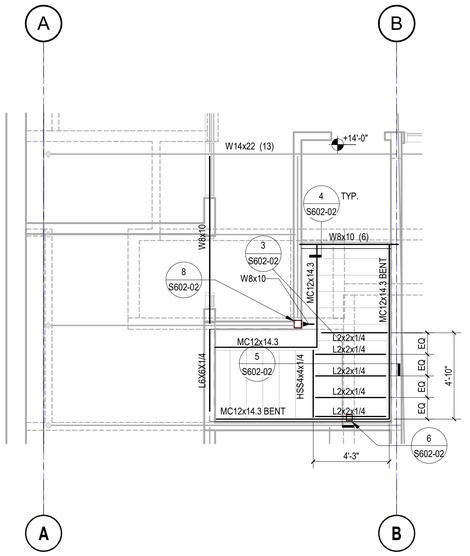
SHEET TITLE

FRAMING ELEVATIONS

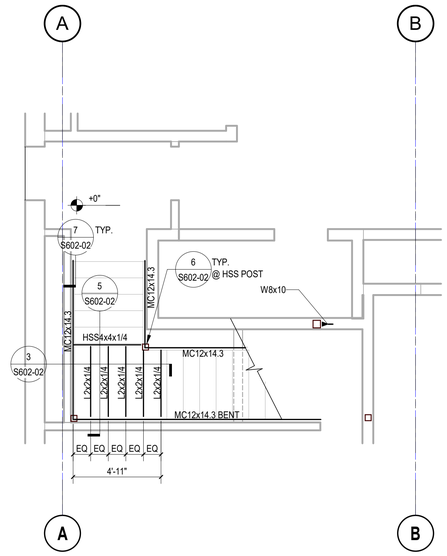
SHEET NUMBER:

S205-02



STAIR FRAMING PLAN SECOND FLOOR 1

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



STAIR FRAMING PLAN FIRST FLOOR 2

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

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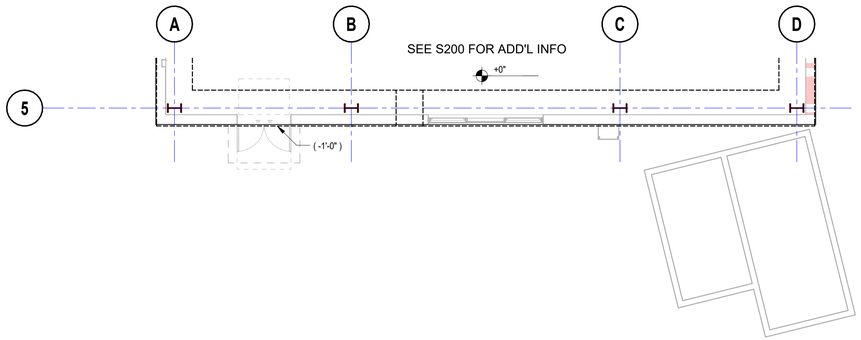
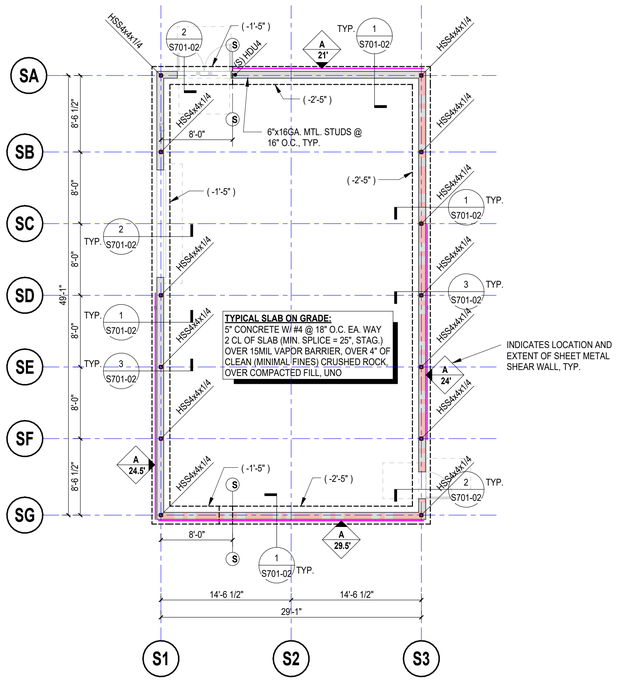
STAIR FRAMING PLANS

SHEET NUMBER:

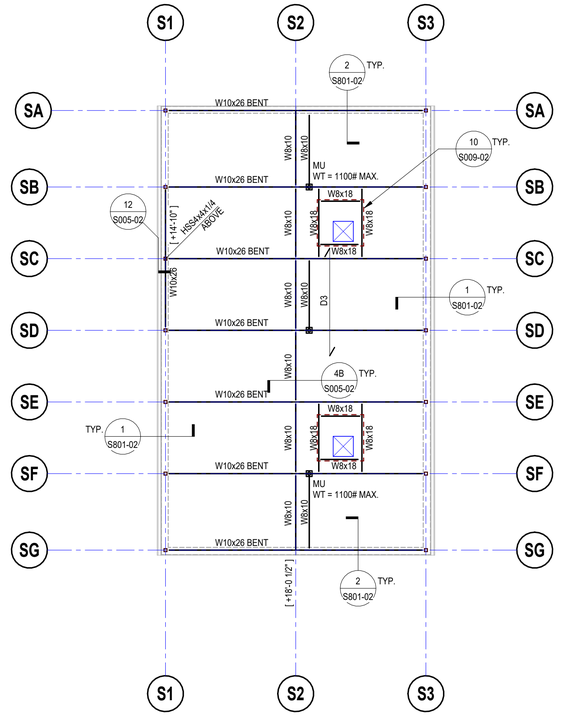
S206-02





FOUNDATION PLAN - STORAGE BLDG

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



ROOF FRAMING PLAN - STORAGE BLDG

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

ROOF FRAMING PLAN NOTES

1. SEE SHEETS S001-02 THROUGH S009-02 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR OPENINGS NOT SHOWN ON FLOOR FRAMING PLANS. SEE DETAIL 6/S006-02 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
4. ALL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL COORDINATE LOCATION OF ALL FRAMING ARCHITECTURE BEAMS AT MECHANICAL UNITS WITH MECHANICAL DRAWINGS. THE LOCATION OF FRAMING SHALL MATCH CURB LAYOUT AND ROOF PENETRATIONS FOR THE SUPPLIED UNITS.

LEGEND

- [+ 10'-0"] : INDICATES TOP OF STEEL ELEVATION.
- SFRS : INDICATES A LINE OF FRAMING PART OF THE SEISMIC FORCE RESISTING SYSTEM
- D1 : INDICATES SPAN OF METAL DECK. DECK SPAN DECK SHALL SPAN OVER 2 SPANS MINIMUM (3 SUPPORTS) AND 3 SPANS (4 SUPPORTS) WHEREVER POSSIBLE. SEE FLOOR AND ROOF CONSTRUCTION SCHEDULE ON DETAIL 1/S006-02 FOR STRUCTURAL DECK AND FILL REQUIREMENTS.
- : INDICATES EXTERIOR 6"x16 GA. MTL. STUD WALL.
- : INDICATES FALL PROTECTION DEVICE, SEE ARCH AND DETAIL 12/S006-02.

FOUNDATION PLAN NOTES

1. SEE SHEETS S001-02 THROUGH S009-02 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND KITCHEN DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
11. ALL WALLS SHOWN WITH PLYWOOD SHEAR PANELS SHALL BE CONTINUOUSLY SHEATHED FOR THE FULL LENGTH OF THE WALL WITH THE SAME SHEATHING AS INDICATED.
12. FOR TYPICAL PIPE CHASE IN CONCRETE STEM WALL, SEE DETAIL 10/S004-02.
13. FOR TYPICAL SLAB JOINTS, SEE DETAIL 8/S003-02.

LEGEND

- HSS5x0.375 PF-3 : INDICATES STEEL COLUMN SIZE. SEE DETAIL 5/S005-02 FOR STEEL COLUMN BASE PLATE, U.N.O.
- : INDICATES CONCRETE FOOTING. SEE DETAIL 5/S004-02 FOR ADDITIONAL INFORMATION.
- (-1'-0") : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.
- X / X' : INDICATES STEEL SHEET SHEAR WALL TYPE PER 1/S009-02.
- : INDICATES LENGTH OF WALL USED FOR DESIGN. ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN THE LENGTH SHOWN.
- HDU8 : INDICATES SIMPSON HOLDOWN ANCHOR. SEE DETAIL 3/S009 FOR ADDITIONAL INFORMATION.
- : INDICATES CONCRETE CURB. SEE PLANS FOR EXTERIOR CURB DETAILS AND DETAIL 9/S003-02 FOR INTERIOR CURB CONDITIONS

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MARS/ELOP FACILITY
MCSD - 26TH ST.
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MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

FOUNDATION AND ROOF FRAMING PLANS - STORAGE BUILDING

SHEET NUMBER:

S210-02

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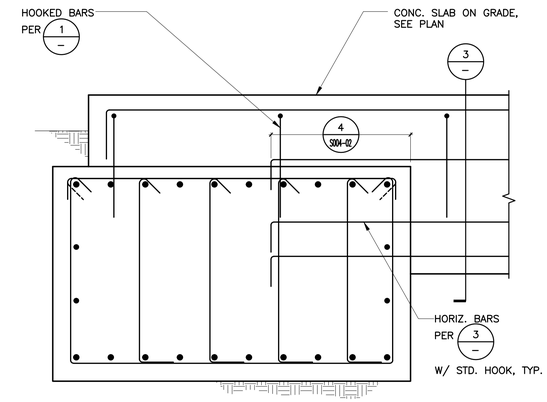
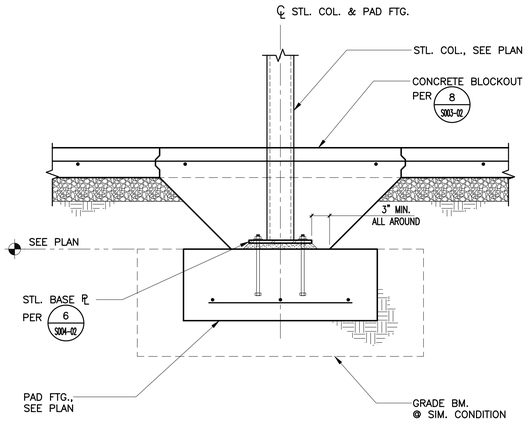


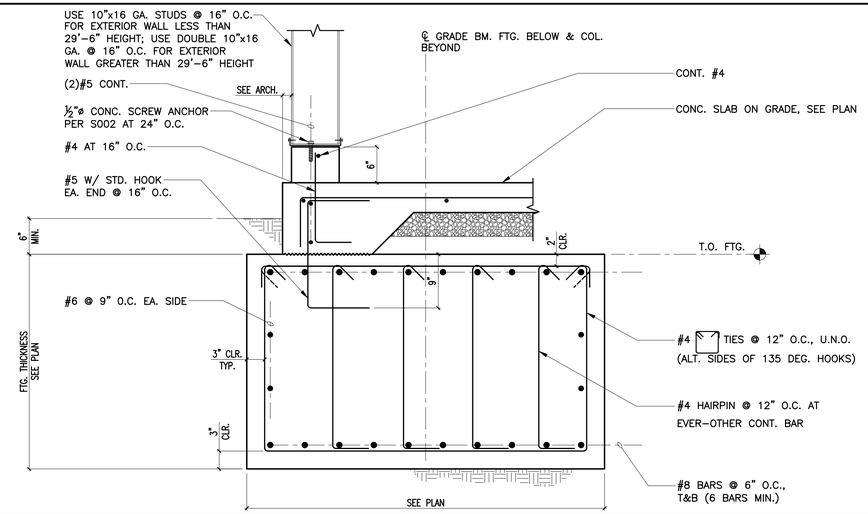
MERCED-045 SCALE: 1"=1'-0"

DETAIL 10



MERCED-036 SCALE: 1"=1'-0"

DETAIL 7



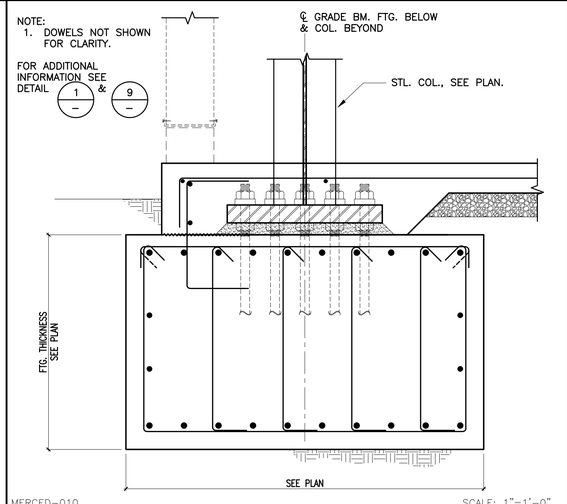
MERCED-008 SCALE: 1"=1'-0"

DETAIL 1

NOTE:
DOWELS NOT SHOWN FOR CLARITY.

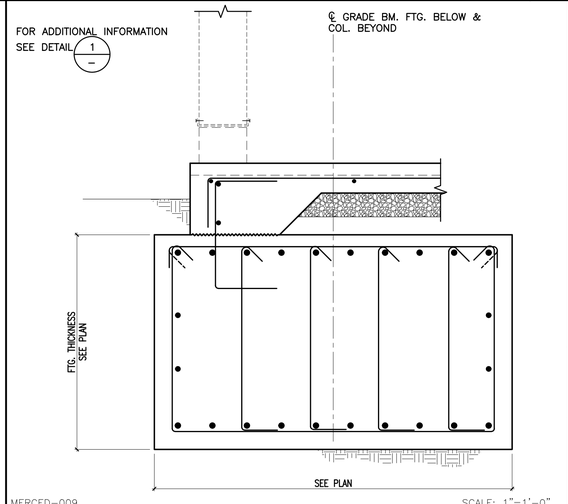
MERCED-007 SCALE: 1"=1'-0"

TYPICAL MOMENT FRAME COLUMN BASE 9



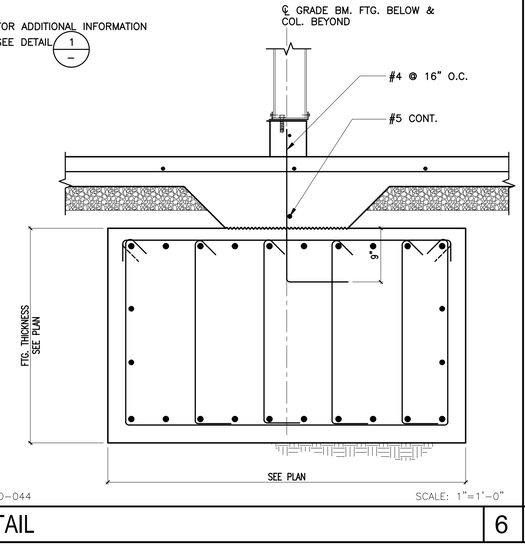
MERCED-010 SCALE: 1"=1'-0"

DETAIL 5



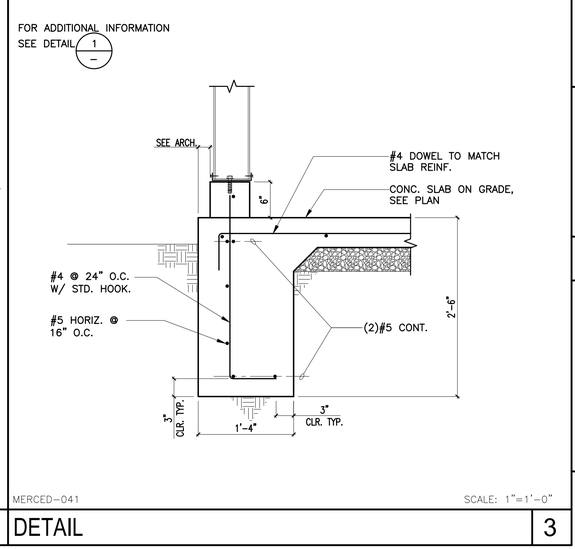
MERCED-009 SCALE: 1"=1'-0"

DETAIL 2



MERCED-044 SCALE: 1"=1'-0"

DETAIL 6



MERCED-041 SCALE: 1"=1'-0"

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STATE OF CALIFORNIA

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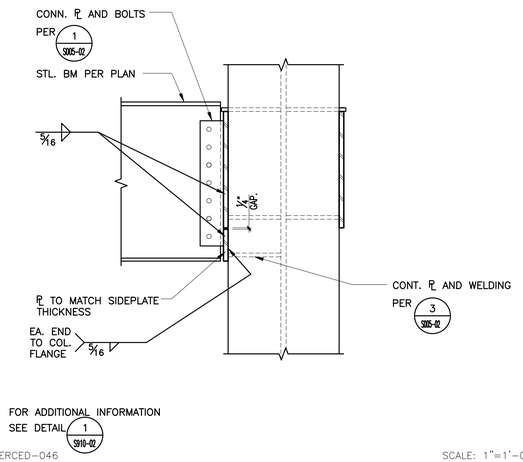
S501-02



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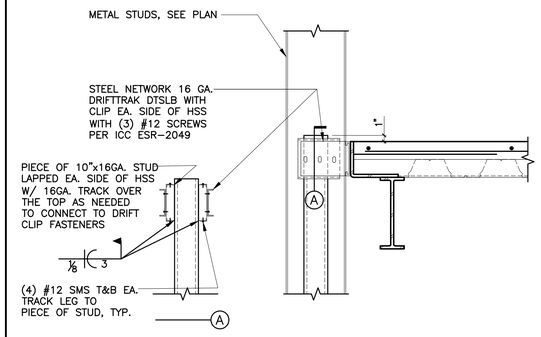
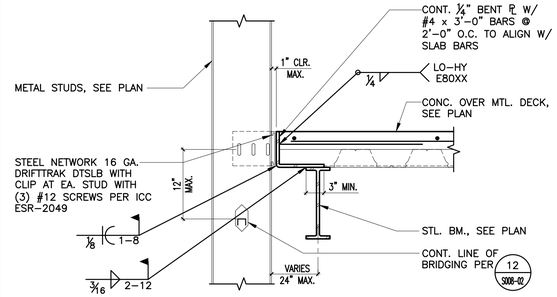
DETAIL 10



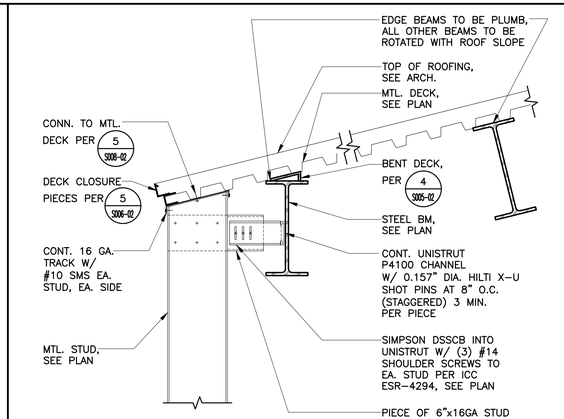
MERCED-039 SCALE: 1"=1'-0"

DETAIL 7



MERCED-017 SCALE: 1"=1'-0"

DETAIL 4



NOTE:
AS AN ALTERNATE TO SIMPSON DSSCB CLIPS AND UNISTRUT, CONTRACTOR MAY USE CLARK DIETRICK DRIFT RAIL (97MIL.) AND 12GA. DRC CLIPS

MERCED-011 SCALE: 1"=1'-0"

DETAIL 1

MERCED-053 SCALE: 1"=1'-0"

DETAIL 11

MERCED-038 SCALE: 1"=1'-0"

DETAIL 8

MERCED-018 SCALE: 1"=1'-0"

DETAIL 5

MERCED-012 SCALE: 1"=1'-0"

DETAIL 2

MERCED-042 SCALE: 1"=1'-0"

DETAIL 9

MERCED-016 SCALE: 1"=1'-0"

DETAIL 6

MERCED-013 SCALE: 1"=1'-0"

DETAIL 3

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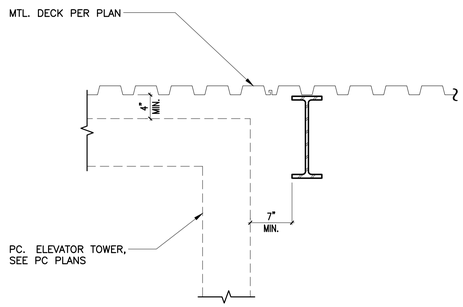
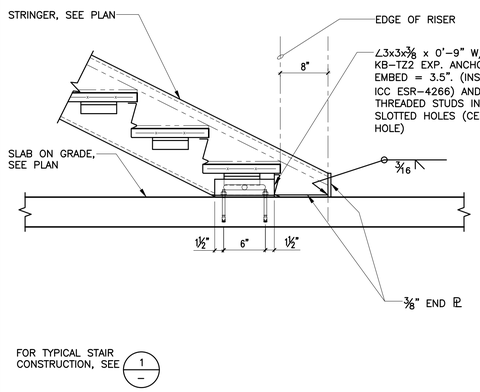


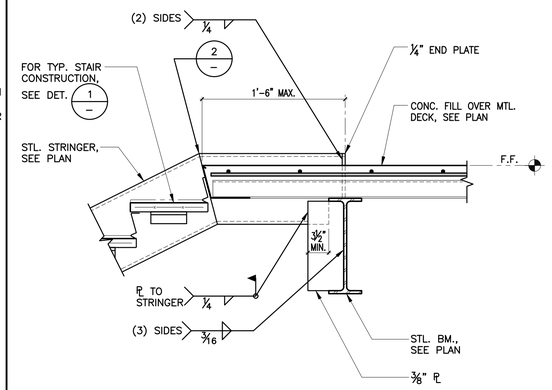
MERCED-054 SCALE: 1"=1'-0"

DETAIL 10



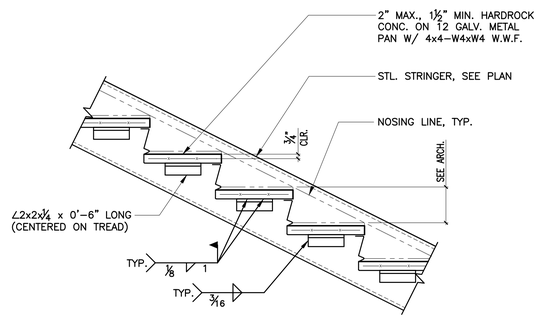
MERCED-034 SCALE: 1"=1'-0"

DETAIL 7



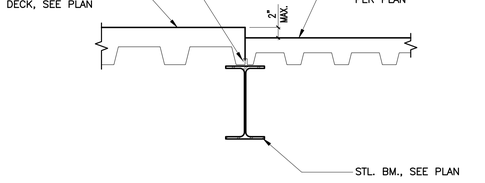
MERCED-031 SCALE: 1"=1'-0"

DETAIL 4



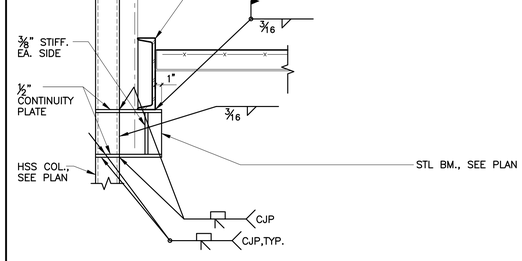
MERCED-028 SCALE: 1"=1'-0"

DETAIL 1



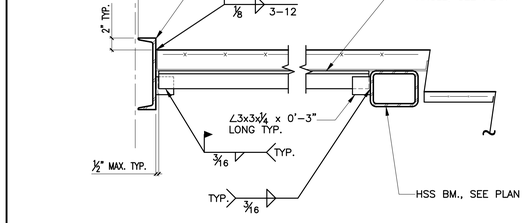
MERCED-058 SCALE: 1"=1'-0"

DETAIL 11



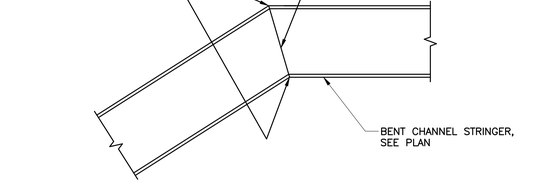
MERCED-035 SCALE: 1"=1'-0"

DETAIL 8



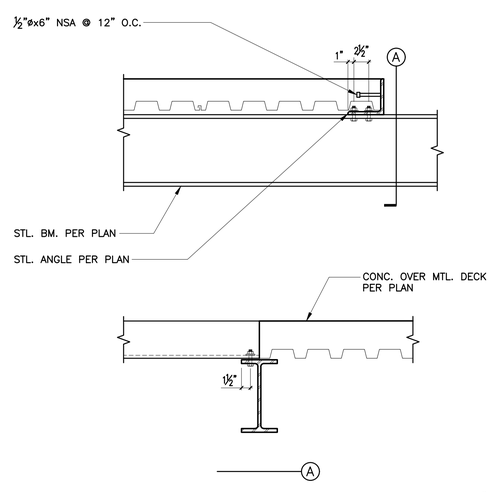
MERCED-032 SCALE: 1"=1'-0"

DETAIL 5



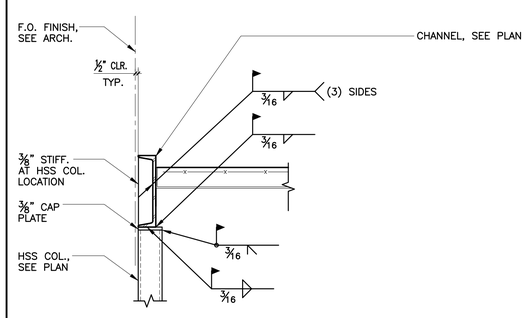
MERCED-029 SCALE: 1"=1'-0"

DETAIL 2



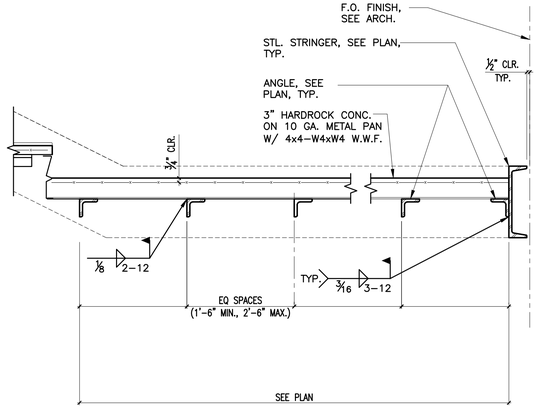
MERCED-055 SCALE: 1"=1'-0"

DETAIL 9



MERCED-033 SCALE: 1"=1'-0"

DETAIL 6



MERCED-030 SCALE: 1"=1'-0"

DETAIL 3

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RTM JOB NO. : 450.043

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER BENJAMIN D. PITTS No. 5692 Exp. 12-31-26 STRUCTURAL STATE OF CALIFORNIA

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

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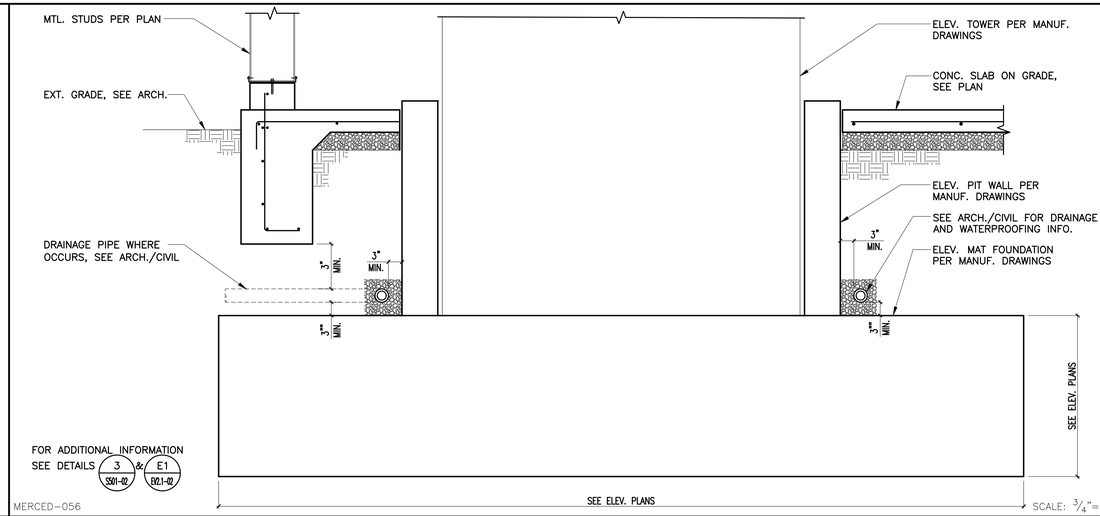
SHEET TITLE

DETAILS

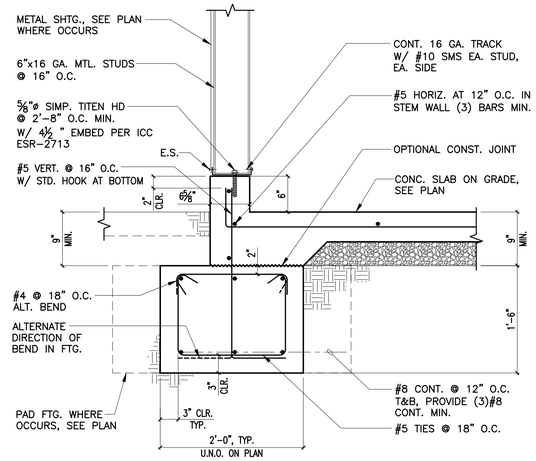
SHEET NUMBER:

S602-02



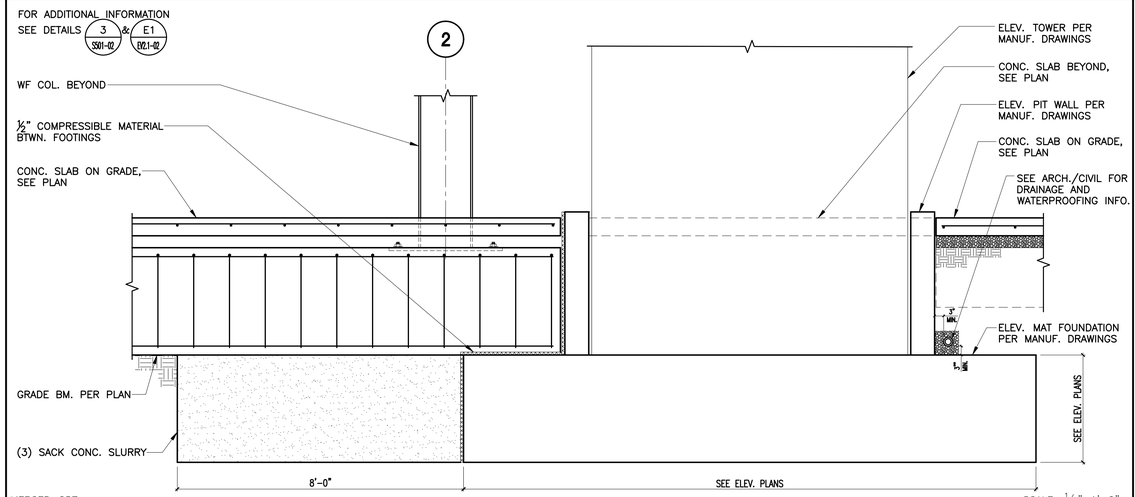
MERCED–056 SCALE: 3/4"=1'–0"

10 DETAIL 4



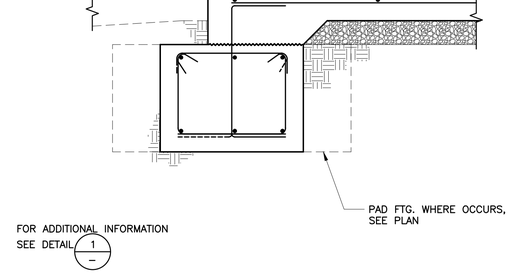
MERCED–020 SCALE: 1"=1'–0"

DETAIL 1



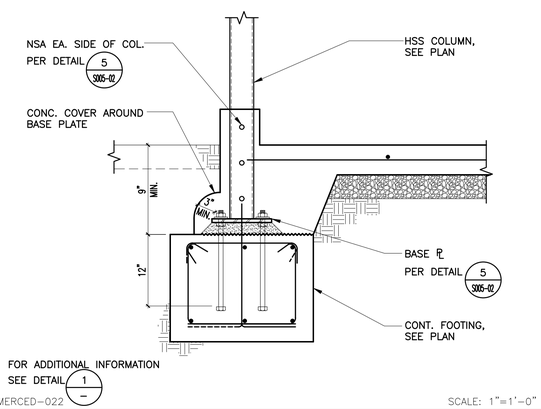
MERCED–057 SCALE: 1/2"=1'–0"

11 DETAIL 5



MERCED–021 SCALE: 1"=1'–0"

DETAIL 2



MERCED–022 SCALE: 1"=1'–0"

12 9 6 DETAIL 3

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

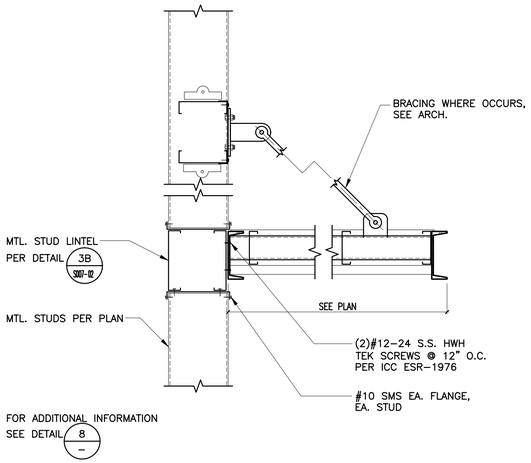
REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

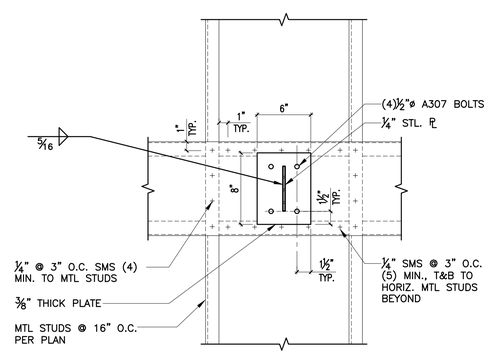
SHEET TITLE
DETAILS

SHEET NUMBER:
S701-02



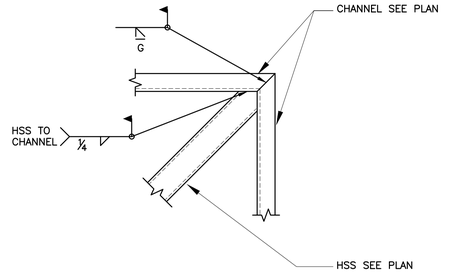
MERCED-059 SCALE: 1"=1'-0"

DETAIL 10



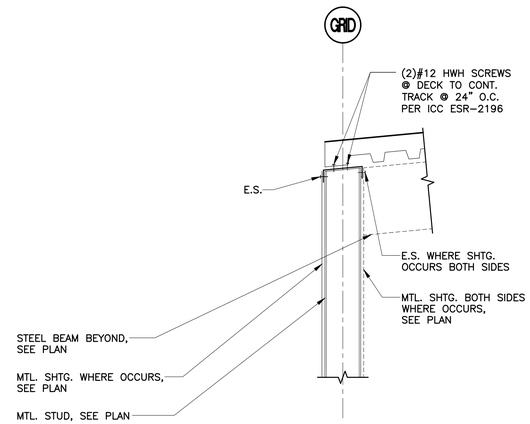
MERCED-051 SCALE: 1 1/2"=1'-0"

DETAILS 7



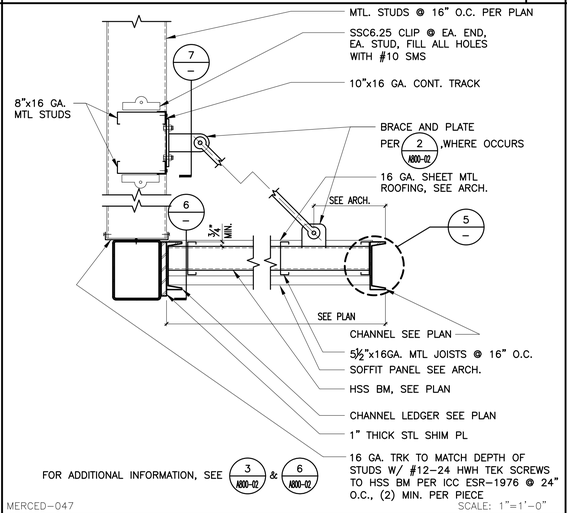
MERCED-048 SCALE: 1 1/2"=1'-0"

DETAILS 4



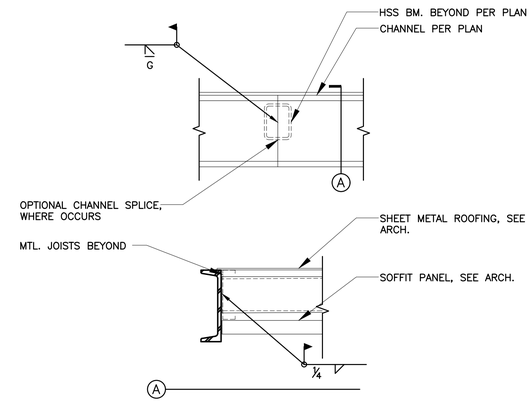
MERCED-023 SCALE: 1"=1'-0"

DETAIL 1



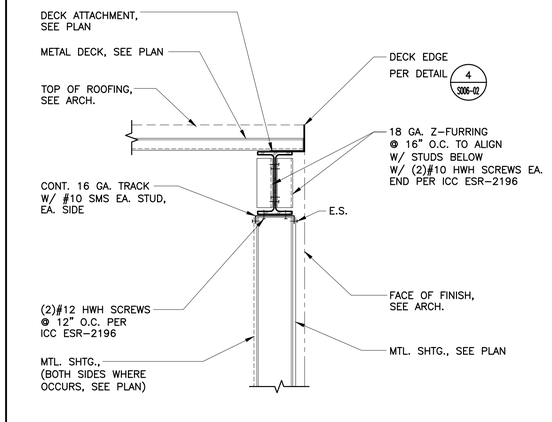
MERCED-047 SCALE: 1"=1'-0"

DETAIL 8



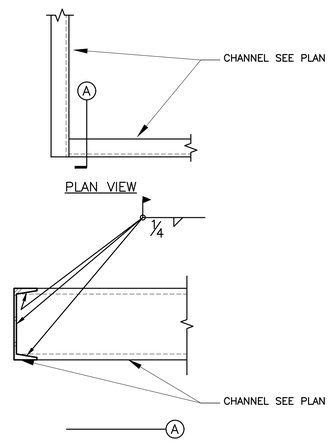
MERCED-049 SCALE: 1 1/2"=1'-0"

DETAILS 5



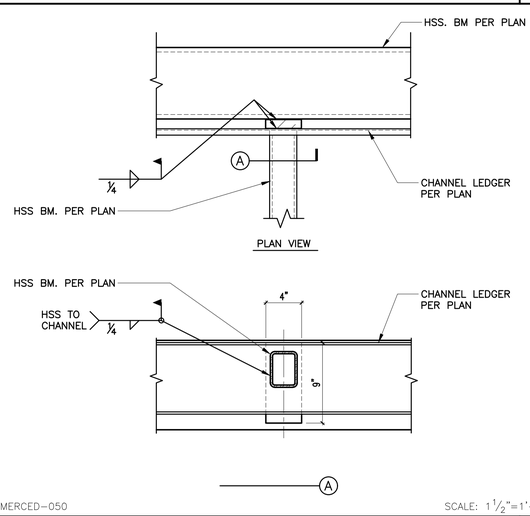
MERCED-024 SCALE: 1"=1'-0"

DETAIL 2



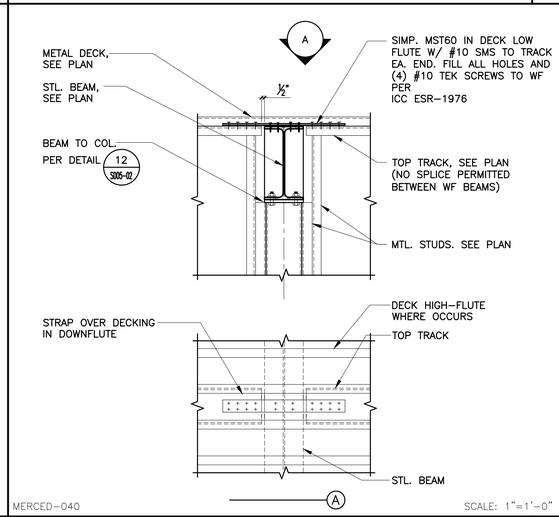
MERCED-052 SCALE: 1 1/2"=1'-0"

DETAILS 9



MERCED-050 SCALE: 1 1/2"=1'-0"

DETAILS 6



MERCED-040 SCALE: 1"=1'-0"

DETAIL 3

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

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DSA SUBMITTAL

SHEET TITLE

DETAILS

SHEET NUMBER:

S801-02

PROJECT SPECIFIC INFORMATION

PROJECT NUMBER: **25041**

SUBMITTAL NUMBER:	S-01
SUBMITTAL DATE:	06/24/2025
PROJECT NAME:	26TH STREET MARS / ELOP FACILITY
LOCATION:	MERCED, CA
CONNECTION TYPE:	SIDEPLATE PLUS
NUMBER OF BUILDINGS:	1
APPROX. TOTAL GROSS SQUARE FOOTAGE:	7300
NUMBER OF STORIES:	1

eDATA:

a. THERE MAY BE eDATA AVAILABLE FOR YOUR PROJECT WHICH IS AVAILABLE FOR DOWNLOAD AT WWW.SIDEPLATE.COM. eDATA MAY INCLUDE:
   - eSTIMATE FILE IN EXCEL FORMAT FOR USE IN AFFIRMING SIDEPLATE CONNECTION MATERIAL QUANTITIES.
   - ComponentXML FILE FOR USE IN ASSISTING DETAILING EFFORTS.

b. ESTIMATED NUMBER OF SIDEPLATE JOINTS FOR THIS PROJECT = 24

c. ESTIMATED NUMBER OF SIDEPLATE JOINTS FOR THIS PROJECT THAT ARE **NOT** SUPPORTED BY eDATA = 0

d. MISCELLANEOUS DETAILS, TYPICALLY DESIGNATED BY M#, ARE NOT SUPPORTED.

INSTRUCTIONS TO STEEL FABRICATOR

1. SIDEPLATE LICENSE FEE:
   a. THE STEEL FABRICATOR'S BID PRICE FOR PROCUREMENT, FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL INCLUDE THE SIDEPLATE LICENSE FEE FOR THE PROJECT. EACH PROSPECTIVE STEEL FABRICATOR WHO BIDS THE PROJECT SHALL FORMALLY REQUEST THE SIDEPLATE LICENSE FEE BY ACCESSING THE SIDEPLATE WEBSITE (http://www.sideplate.com).
   b. UPON THE SUCCESSFUL STEEL FABRICATOR SIGNING A CONTRACT TO FABRICATE STRUCTURAL STEEL FOR THIS PROJECT, THE STEEL FABRICATOR SHALL SUBMIT A PURCHASE ORDER (PO) TO SIDEPLATE SYSTEMS, INC. FOR THE TOTAL AMOUNT OF THE SIDEPLATE LICENSE FEE AND SHALL INCLUDE SAID FEE IN ITS FIRST CONSTRUCTION DRAW.
   c. THE STEEL FABRICATOR SHALL MAKE PAYMENT OF THE SIDEPLATE LICENSE FEE DIRECTLY TO:

      SIDEPLATE SYSTEMS, INC.
      25909 PALA, SUITE 200
      MISSION VIEJO, CA 92691
      TEL: 949-238-8900

SUBMITTALS

1. IN ADDITION TO THE REQUIRED SUBMITTALS SPECIFIED BY THE BALANCE OF THE CONTRACT DOCUMENTS, THE FOLLOWING SUBMITTALS SHALL BE SENT TO SIDEPLATE SYSTEMS, INC. ELECTRONICALLY VIA THE STRUCTURAL ENGINEER OF RECORD FOR THEIR REVIEW AND DISPOSITION:
   a. QUALITY CONTROL PROGRAM (REQUIRED IF NOT AISC CERTIFIED)
   b. ONE ELECTRONIC COPY OF ALL STRUCTURAL STEEL DRAWINGS THAT EITHER DIRECTLY PERTAINS TO AND/OR AFFECTS THE SHOP FABRICATION OR FIELD ERECTION OF THE SIDEPLATE STEEL FRAME CONNECTION SYSTEM, INCLUDING THE INITIAL SUBMITTAL AND ALL CORRECTED RE-SUBMITTALS OF AFFECTED DRAWINGS. SIDEPLATE SYSTEMS, INC. SHALL BE GIVEN, AS A MINIMUM, THE SAME SPECIFIED REVIEW TIME (NOT LESS THAN SEVEN BUSINESS DAYS) AS THE ENGINEER OF RECORD.
   c. PROCEDURE QUALIFICATION RECORD (PQR), OR WELDING PROCEDURE SPECIFICATIONS (WPS) AND CURRENT CERTIFICATE OF CONFORMANCE BY THE WIRE MANUFACTURER.
2. SENT BY SIDEPLATE:
   a. INTELLECTUAL PROPERTY RIGHTS NOTICE LABEL.
   b. USPTO PATENT LABEL STICKERS, SEE INTELLECTUAL PROPERTY SECTION FOR PLACEMENT.

MEETINGS

1. PRE-DETAILING MEETING
   a. PRIOR TO THE START OF DETAILING OF THE SHOP DRAWINGS, THE FABRICATION CONTRACTOR SHALL FORMALLY REQUEST A PRE-DETAILING MEETING FROM SIDEPLATE SYSTEMS, INC. THIS MEETING IS TYPICALLY A WEBINAR TO DISCUSS BEST PRACTICES FOR THE DETAILING OF THE SIDEPLATE CONNECTIONS, AND TO CREATE A PROACTIVE FORUM TO ANSWER ANY QUESTIONS.
2. PRE-FABRICATION MEETING
   a. PRIOR TO THE START OF FABRICATION, THE FABRICATION CONTRACTOR SHALL FORMALLY REQUEST A PRE-FABRICATION MEETING FROM SIDEPLATE SYSTEMS, INC. THIS MEETING IS TYPICALLY A WEBINAR TO DISCUSS BEST PRACTICES FOR THE FABRICATION OF THE SIDEPLATE CONNECTIONS, AND TO CREATE A PROACTIVE FORUM TO ANSWER ANY QUESTIONS.
3. PRE-ERECTION MEETING
   a. PRIOR TO THE START OF STEEL ERECTION, THE ERECTION CONTRACTOR SHALL FORMALLY REQUEST A PRE-ERECTION MEETING FROM SIDEPLATE SYSTEMS, INC. THIS MEETING IS TYPICALLY A WEBINAR TO DISCUSS BEST PRACTICES FOR FIELD ERECTION OF THE SIDEPLATE BEAMS AND COLUMNS, AND TO CREATE A PROACTIVE FORUM TO ANSWER ANY QUESTIONS.

GENERAL

1. THE GOVERNING CODES SHALL CONSIST OF ANSI/AWS D1.1-2015 (AWS D1.1), ANSI/AWS D1.8-2016, ANSI/AISC 358-16 (INCLUDING SUPPLEMENT NO. 2), AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (JUNE 15, 2016), 2014 RCSC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, AND ALL APPLICABLE BUILDING AND JURISDICTIONAL CODES AND PROJECT STANDARDS SPECIFIED IN THE PROJECT SPECIFICATION STRUCTURAL STEEL SECTION. WHERE THE REQUIREMENTS DIFFER BETWEEN SIDEPLATE CONNECTION NOTES, THE GENERAL STRUCTURAL NOTES, AND THE GOVERNING CODES, THE MORE STRINGENT SECTION CRITERIA SHALL CONTROL.
2. ALPHA AND NUMERIC DESIGNATORS {X} & {#} USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF PLATES, ANGLES, AND WELDS ARE DEFINED BELOW:

   {A} SIDE PLATE FOR UNIAXIAL CONNECTIONS

   {B} BEAM FLANGE COVER PLATE, AS REQUIRED

   {C} VERTICAL SHEAR PLATE OR FLAT BAR WELDED TO BEAM WEB, AS REQUIRED

   {D} HORIZONTAL SHEAR PLATE OR FLAT BAR WELDED TO COLUMN WEB, AS REQUIRED

   {E} VERTICAL ANGLE WELDED TO THE VERTICAL SHEAR PLATE {C}, AS REQUIRED

   {F} VERTICAL SHEAR ELEMENT (VSE) WHICH CONSISTS OF PLATE {C} AND ANGLE {E} MATERIAL, AS REQUIRED

   {G} LONGITUDINAL ANGLE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED

   {H} LONGITUDINAL ANGLE WELDED TO THE BOTTOM BEAM FLANGE (OR TOP BEAM FLANGE AS REQUIRED)

   {T} HORIZONTAL PLATE WELDED TO THE OUTSIDE FACE OF SIDE PLATE {A}, AS REQUIRED

   {1} FILLET WELD CONNECTING SIDE PLATE {A} TO HORIZONTAL SHEAR PLATE {D} OR COLUMN

   {2} FILLET (AND/OR FLARE BEVEL) WELD CONNECTING INSIDE FACE OF SIDE PLATE {A} TO COLUMN [DEMAND CRITICAL]

   {3} FILLET WELD CONNECTING HORIZONTAL SHEAR PLATE {D} TO COLUMN, AS REQUIRED

   {4} FILLET WELD TO CONSTRUCT VSE {F} AND TO CONNECT IT TO THE WEB OF THE BEAM, AS REQUIRED

   {5} FILLET (AND/OR PJP) WELD CONNECTING BEAM FLANGE TIPS TO COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}, AS REQUIRED [DEMAND CRITICAL]

   {5a} FILLET WELD CONNECTING OUTSIDE FACE OF BEAM FLANGE TO COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}, AS REQUIRED [DEMAND CRITICAL]

   {(5p)} PJP WELD CONNECTING ANGLE {H} TO BEVELED BEAM FLANGE [DEMAND CRITICAL]

   {8} FILLET (AND/OR PJP) WELD CONNECTING LONGITUDINAL ANGLE {G} (AND/OR PLATE {T}) TO SIDE PLATE {A}, AS REQUIRED [DEMAND CRITICAL]

   {(8p)} PJP WELD CONNECTING PLATE {T} TO SIDE PLATE {A}, AS REQUIRED [DEMAND CRITICAL]

   {9} FILLET WELD CONNECTING SIDE PLATE {A} TO COLUMN FACE, WRAPPED AROUND THREE SIDES OF SIDE PLATE {A} [DEMAND CRITICAL]

   {10} FILLET WELD TO CONSTRUCT SIDE PLATE SLOTTED INTERLOCK ASSEMBLY [DEMAND CRITICAL]

   {10p} PJP WELD TO CONSTRUCT SIDE PLATE SLOTTED INTERLOCK ASSEMBLY [DEMAND CRITICAL]

   {10r} REINFORCING FILLET WELD TO CONSTRUCT SIDE PLATE SLOTTED INTERLOCK ASSEMBLY [DEMAND CRITICAL]

   {13} FILLET WELD CONNECTING BUILT UP ANGLE {H} PLATES TOGETHER, AS REQUIRED [DEMAND CRITICAL]

   {(13p)} PJP WELD CONNECTING BUILT UP ANGLE {H} PLATES TOGETHER, AS REQUIRED [DEMAND CRITICAL]

3. ALPHA DESIGNATORS, USED HEREIN TO SIMPLIFY THE IDENTIFICATION OF DIMENSIONS OF THE SIDEPLATE CONNECTIONS, ARE DEFINED BELOW:

   GAP PHYSICAL SEPARATION BETWEEN THE END OF THE MOMENT FRAME BEAM AND THE ADJOINING FACE OF THE COLUMN FLANGE (AKA COLUMN/BEAM SEPARATION)

   A EXTENSION OF SIDE PLATE {A} FROM THE FACE OF THE COLUMN

   B DEPTH OF SIDE PLATE {A}

   C LENGTH OF COVER PLATE {B} AND/OR LONGITUDINAL ANGLE {H}

   D LENGTH OF SLOT FROM THE TOE OF THE RADIUS IN THE COVER PLATE {B}, AS REQUIRED

   E EDGE DISTANCE OF BOLT HOLES IN COVER PLATE {B}, AS REQUIRED

   F DISTANCE FROM END OF SIDE PLATE {A} TO A CJP WELDED SPLICE IN THE FLANGES AND WEB OF THE MOMENT FRAME BEAM, AS REQUIRED

   G GAGE DISTANCE TO CENTERLINE OF BOLT HOLES IN ANGLES {G} AND {H}, AND PLATE {T}, AS REQUIRED

   H ADDED DIMENSION TO COLUMN FLANGE WIDTH TO DEFINE TOTAL COVER PLATE {B} WIDTH

   J DISTANCE FROM END OF THE BEAM TO CENTERLINE OF VERTICAL BOLT HOLES IN VSE {F}, AS REQUIRED

   K CUT DIMENSION ON ANGLE {H}

   L DISTANCE FROM CENTERLINE OF HORIZONTAL BOLT HOLES IN BOTTOM ANGLE {H} TO BOTTOM MOST BOLT HOLE IN VSE {F}

   R RADIUS OF SLOT DIMENSION IN COVER PLATE {B}

   S HORIZONTAL SPACING BETWEEN BOLT HOLES

   Y ADDED DIMENSION TO COLUMN FLANGE WIDTH FOR ALLOWABLE SPREAD OF SIDE PLATES {A}

MATERIAL

1. PLATE, FLAT BAR, AND ANGLE MATERIAL:
   a. ALL PLATE MATERIAL SHALL BE ASTM A572, GRADE 50.
   b. ANGLE AND BAR MATERIAL SHALL HAVE A HIGH STRENGTH STEEL SPECIFICATION AND SHALL HAVE A MINIMUM YIELD STRENGTH (F_y) OF 50 KSI.
   c. ALL PLATE MATERIAL 2 INCHES THICK AND GREATER SHALL MEET THE FOLLOWING ADDITIONAL REQUIREMENTS:
      - CHARPY V-NOTCH (CVN) TOUGHNESS SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF ASTM A673, FREQUENCY P. A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT A TEMPERATURE OF 70°F, IN ACCORDANCE WITH ASTM A6, SUPPLEMENTARY REQUIREMENT S5, SHALL BE DOCUMENTED IN THE CERTIFIED MILL TEST REPORT (CMTR). IF THE CMTR DOES NOT DOCUMENT THE MINIMUM CVN VALUES, A COUPON SHALL BE REMOVED FROM THE END OF EACH PIECE OF PLATE TO BE TESTED. THE LENGTH OF COUPON SHALL BE ORIENTED PARALLEL TO THE LONGITUDINAL AXIS OF THE MEMBER. A TEST SPECIMEN SHALL BE MACHINED FROM EACH COUPON IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, SECTION A3-1d, BUILT-UP HEAVY SHAPES.
2. WELD FILLER METAL:
   a. THE WELD FILLER METAL AND ASSOCIATED WELDING PROCESS FOR ALL FILLET WELDS SHALL MEET THE REQUIREMENTS OF AWS D1.1 AND D1.8 SECTION 6.1 AND SHALL BE ANY OF THE FOLLOWING:
      - E70T-6, E71T-8, OR E70TG-K2 FOR FCAW
      - E7XT-9 FOR FLUX CORED ARC WELDING (FCAW) WITH GAS SHIELDING
      - F7A2-EXXX FOR SUBMERGED ARC WELDING (SAW)
      - E7018 STICK ELECTRODE FOR SHIELDED METAL ARC WELDING (SMAW)
      - ER70S-X, E70C-XM, OR E70C-XC FOR GMAW (EXCEPT SHORT CIRCUIT TRANSFER)
   b. THE WELD FILLER METAL USED FOR FILLET WELDS TO CONSTRUCT THE SIDEPLATE CONNECTION SYSTEM PRESENTED HEREIN SHALL DEMONSTRATE AN ENERGY EQUIVALENT TO A MINIMUM CVN TOUGHNESS OF 20 FT-LB IMPACT STRENGTH AT A TEMPERATURE OF 0°F AND 40 FT-LB IMPACT STRENGTH AT 70°F AS DETERMINED BY AWS CLASSIFICATION TEST METHODS OR MANUFACTURER CERTIFICATION.
   c. ALL WELD FILLER METAL SHALL SATISFY A MAXIMUM DIFFUSIBLE HYDROGEN CONTENT REQUIREMENT PER AWS D1.1 AND D1.8 SECTION 6.1, OF 16 MILLILITERS OF HYDROGEN PER 100 GRAMS OF WELD METAL (H16) OR LESS.
   d. REFER TO AWS D1.8 ANNEX B FOR REQUIREMENTS WHEN MIXING FCAW-S WITH OTHER WELD PROCESSES.
3. HIGH STRENGTH BOLTS/FASTENERS:
   a. BOLTS SHALL BE TYPE 1 OR TYPE 3 AND SHALL BE ASTM F3125, GRADE A490-X OR GRADE F2280-X, OR F3148 FIXED SPLINE BOLT ASSEMBLIES. THE BOLT HEAD SHALL BE DISTINCTIVELY MARKED WITH A MINIMUM MARKING OF A490, A490TC, OR 144 RESPECTIVELY. AN ALTERNATIVE DESIGN THAT MEETS THE REQUIREMENTS OF RCSC SECTION 2.8 MAY BE USED, WITH THE WRITTEN APPROVAL FROM SIDEPLATE SYSTEMS, INC.
   b. FOR BOLTS UP TO 1 1/4 INCH DIAMETER WASHERS SHALL BE ORDINARY THICKNESS AND ASTM F436 TYPE 1 OR TYPE 3. 1 1/2 INCH DIAMETER BOLTS SHALL REQUIRE 5/16 INCH THICK WASHER.
   c. NUTS SHALL BE ASTM A563 GRADE DH OR DH3.
   d. THE BOLT ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL. F2280 AND F3148 ASSEMBLIES SHALL ONLY BE LUBRICATED BY THE SUPPLIER.
   e. THE MILL TEST REPORT (MTR) MUST HAVE DOCUMENTED LOT TRACEABILITY, STATEMENT OF DIMENSIONAL RESULTS, FULL CHEMICAL AND MECHANICAL TEST RESULTS TO THE SPECIFICATIONS ABOVE.
   f. THE USE OF FINGER SHIMS ARE ACCEPTABLE PER BOLTING SECTION 8.
4. ROLLED SHAPES:
   a. ALL ROLLED SHAPES USED FOR COLUMNS AND BEAMS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL BE ASTM A992 GRADE 50 UNO.
   b. FOR EACH DIFFERENT SIZE OF STEEL FRAME COLUMNS AND BEAMS IDENTIFIED IN THE CONTRACT DOCUMENTS AS PART OF THE SFRS INVOLVING ASTM A6 HOT-ROLLED SHAPES WITH FLANGES 1 1/2 INCHES THICK OR THICKER, CHARPY V-NOTCH (CVN) TOUGHNESS SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF ASTM A673, FREQUENCY H. A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT A TEMPERATURE OF 70°F, IN ACCORDANCE WITH ASTM A6, SUPPLEMENTARY REQUIREMENT S30, SHALL BE DOCUMENTED IN THE CERTIFIED MILL TEST REPORT (CMTR). IF THE CMTR DOES NOT DOCUMENT THE MINIMUM CVN VALUES, A COUPON SHALL BE REMOVED FROM THE END OF EACH MEMBER SHAPE SAMPLED. THE LENGTH OF COUPON SHALL BE ORIENTED PARALLEL TO THE LONGITUDINAL AXIS OF THE MEMBER. A TEST SPECIMEN SHALL BE MACHINED FROM EACH COUPON, IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, SECTION A3-1c, ROLLED HEAVY SHAPES. THE LONGITUDINAL AXIS OF THE TEST SPECIMEN SHALL BE LOCATED AS NEAR AS PRACTICABLE TO A POINT MIDWAY BETWEEN THE INNER FLANGE SURFACE AND THE CENTER OF FLANGE THICKNESS, AT THE INTERSECTION OF THE WEB MID-THICKNESS.
5. WELDED BUILT-UP SHAPES:
   a. FOR EACH DIFFERENT SIZE OF STEEL FRAME COLUMNS AND BEAMS IDENTIFIED IN THE CONTRACT DOCUMENTS AS PART OF THE SFRS INVOLVING PLATE 2 INCHES THICK OR THICKER USED TO CONSTRUCT WELDED BUILT-UP SECTIONS SHALL FOLLOW PLATE MATERIAL SPECIFICATIONS OUTLINED IN SECTION 1.
6. HSS TUBE SHAPES:
   a. ALL HSS SHAPES USED FOR BEAMS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL, AS A MINIMUM, BE ASTM A500 GRADE B OR GRADE C OR ASTM A1085.
   b. ALL HSS SHAPES USED FOR COLUMNS IN CONSTRUCTING SIDEPLATE MOMENT FRAMES SHALL BE ASTM A1085.

PREPARATION

1. THE STEEL FABRICATION AND ERECTION SUBCONTRACTORS SHALL EMPLOY A DISTORTION CONTROL PROGRAM PRIOR TO THE START OF SIDEPLATE MOMENT FRAME FABRICATION. THE DISTORTION CONTROL PROGRAM SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.1 SECTION 5.20 AND 5.21 TO ENSURE THAT THE FOLLOWING ARE MAINTAINED:
   - DIMENSIONAL ACCURACY
   - FRAMING AND ALIGNMENT TOLERANCES
   - COMPLIANCE WITH AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SECTION 7.0, ERECTION PROVISIONS
   - CONTROL OF DISTORTION AND WELD SHRINKAGE
2. BASE METAL SURFACE PREPARATION: SURFACES ON WHICH WELD METAL IS TO BE DEPOSITED, INCLUDING BUT NOT LIMITED TO COLUMN FLANGE TIPS (I.E., COLUMN FLANGE-TO-SIDE PLATE {A} ATTACHMENT), BEAM FLANGE TIPS (I.E., BEAM FLANGE-TO-COVER PLATE {B} ATTACHMENT), AND THERMAL CUT EDGES (E.G., LONGITUDINAL EDGES OF COVER PLATE {B}), SHALL BE SMOOTH, UNIFORM, AND FREE FROM LOOSE OR THICK SCALE, SLAG, RUST, MOISTURE, GREASE AND OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING.
3. THERMAL CUTTING:
   a. THE ROUGHNESS OF ALL THERMAL-CUT SURFACES SHALL BE NO GREATER THAN AN ANSI SURFACE ROUGHNESS VALUE OF 1000 MICRO-INCHES; CUT ROUGHNESS EXCEEDING THIS VALUE AND NOTCHES OR GOUGES NOT MORE THAN 3/16 INCH DEEP SHALL BE REMOVED BY MACHINING OR GRINDING. NOTCHES OR GOUGES DEEPER THAN 3/16 INCH SHALL BE REPAIRED PER AWS.
   b. FLAME CUT SURFACES SHALL BE FREE OF GLOBULES AND LOOSE SLAG. THE THERMAL CUTTING EQUIPMENT SHALL BE ADJUSTED AND MANIPULATED SO AS TO AVOID CUTTING BEYOND (INSIDE) THE PRESCRIBED LINES.
   c. THERMAL CUTTING PROCESSES SHALL BE LIMITED TO PLASMA ARC-CUTTING OR OXYFUEL GAS PROCESSES.
4. WEB/FLANGE FILLET AREA:
   a. UNLESS NOTED OTHERWISE, VERTICAL SHEAR PLATES {C} (AS REQUIRED) AND HORIZONTAL SHEAR PLATES {D} (AS REQUIRED) SHALL HAVE THEIR INSIDE CORNERS CLIPPED PER AWS D1.8 CLAUSE 4 TO PREVENT WELDING IN THE K-AREA BETWEEN WEB AND FLANGE WHEN THE COLUMN IS DEEPER THAN W16x. THESE CLIPS SHALL START AND STOP A DISTANCE OF 1 1/2 INCHES FROM THE TANGENT OF THE FLANGE TO THE WEB FILLET (I.E., THE AISC 'k' DIMENSION). THE DIMENSIONS OF THE CLIPPED CORNER SHALL BE DETAILED ON THE SHOP DRAWINGS.
   b. WELD {3} RETURNS ON THE INSIDE FACE OF THE COLUMN FLANGES (AS OCCURS): IN NO CASE SHALL A WELD TIE-IN OF WELD {3} BE ALLOWED ACROSS THE CLIPPED CORNER OF THE HORIZONTAL SHEAR PLATES {D} AT THE K-AREA BETWEEN WEB AND FLANGE.
5. ANY HOLE MAKING METHODS ALLOWED BY AISC SPECIFICATIONS ARE ALLOWED WITH THE EXCEPTION THAT WHEN USING A THERMAL CUTTING PROCESS, IT IS NOT PERMITTED FOR PLATES THICKER THAN 2 INCHES (50 MM).

WELDING

1. WELDER QUALIFICATION: THE PERFORMANCE OF ALL WELDERS, WELDING OPERATORS AND TACK WELDERS SHALL BE QUALIFIED IN CONFORMANCE WITH AWS D1.1, SECTION 4, PART C TO DEMONSTRATE ABILITY TO PRODUCE SOUND WELDS.
2. WELDING PROCEDURE SPECIFICATIONS (WPS):
   a. THE APPROPRIATE STEEL SUB-CONTRACTOR SHALL PREPARE A SPECIFIC WRITTEN WPS FOR EVERY DIFFERENT WELDING APPLICATION. DIFFERENT WELDING APPLICATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE JOINT DETAILS AND TOLERANCES, PREHEAT AND INTERPASS TEMPERATURE, SINGLE OR MULTIPLE STRINGER PASSES, WELDING CURRENT, POLARITY, ALLOWABLE AMPERAGE RANGES, ALLOWABLE VOLTAGE RANGES, ALLOWABLE TRAVEL SPEED RANGES, ELECTRODE EXTENSION, ROOT TREATMENT, WELDING POSITION, WELDING PROCESS, ELECTRODE MANUFACTURER, FILLER METAL TRADE NAME FOR THE ELECTRODE TYPE SELECTED, AND OTHER ESSENTIAL VARIABLES AS DEFINED IN AWS D1.1 REQUIRED TO COMPLETE THE FABRICATION AND ERECTION OF THE SPECIFIED SIDEPLATE CONNECTIONS. AMPERAGE, VOLTAGE, TRAVEL SPEED AND ELECTRODE EXTENSION SHALL BE WITHIN THE FILLER METAL MANUFACTURER'S RECOMMENDATIONS.
   b. EACH WPS PREPARED SHALL BE BASED ON AND REFERENCED TO A CURRENT CERTIFICATE OF CONFORMANCE PROVIDED BY THE WIRE MANUFACTURER AND SHALL BE USED AS A SUPPORTING PQR PROVIDED FULL COMPLIANCE WITH EVERY SINGLE CONDITION OF PREQUALIFICATION FOUND IN AWS D1.1 SECTION 3 AND AWS D1.8 HIGH AND LOW HEAT INPUT FOR PREQUALIFIED FILLET AND CJP WELDS. THE SELECTION OF THIS OPTION BY THE STEEL FABRICATION/ERECTION SUBCONTRACTOR IS PREDICATED ON ITS ACKNOWLEDGEMENT THAT ITS CERTIFIED WELDERS ARE EXPERIENCED AND CONFIDENT IN THE USE AND SETTINGS SPECIFIED IN THE CERTIFICATE OF CONFORMANCE WITH THE ALLOWABLE TOLERANCES FOR ESSENTIAL VARIABLES FOUND IN TABLE 3.7 OF AWS D1.1. PREVIOUS WPS QUALIFICATION PERFORMED BY THE STEEL FABRICATION/ERECTION SUBCONTRACTOR THAT COMPLIES WITH THE PROVISIONS HEREIN MAY SATISFY THIS REQUIREMENT. EACH WPS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, AND TO SIDEPLATE SYSTEMS, INC. FOR REVIEW AND DISPOSITION PRIOR TO STARTING THE WORK.
   c. THE APPROVED WPS FOR EACH APPLICABLE PRODUCTION WELD SHALL BE CLEARLY DISPLAYED TO PROVIDE READY ACCESS BY THE ASSIGNED WELDERS, WELDING SUPERVISORS AND INSPECTORS.
   d. IN LIEU OF THE ABOVE PROCEDURE, THE STEEL FABRICATOR MAY CHOOSE TO QUALIFY A WPS BASED ON A PROCEDURE QUALIFICATION RECORD (PQR). WHICH SHALL BE PROVIDED WITH THE WPS SUBMITTAL. THE PQR SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, SECTION 4.1 AND EMPLOY THE PROPER ACCEPTANCE CRITERIA.
3. TACK WELDS:
   a. TACK WELDS SHALL BE PLACED WHERE THEY WILL BE INCORPORATED INTO A FINAL WELD AND SHALL BE SUBJECT TO THE SAME QUALITY REQUIREMENTS AS THE FINAL WELDS, INCLUDING POSITION, PREHEAT AND UNDERCUT, IN ACCORDANCE WITH AWS D1.1. THESE QUALITY REQUIREMENTS SHALL APPLY EQUALLY TO TACK WELDING OF ANY OTHER CONSTRUCTION AIDS.
4. PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS:
   a. THE MINIMUM PREHEAT AND INTERPASS TEMPERATURES FOR A GIVEN THICKNESS OF BASE METAL TO BE WELDED SHALL BE IN ACCORDANCE WITH AWS D1.1 TABLE 3.3.
   b. IN NO CASE, REGARDLESS OF THE WELDING PROCESS, SHALL THE PREHEAT TEMPERATURE BE LESS THAN THAT REQUIRED TO DRIVE OFF ANY SURFACE MOISTURE OR CONDENSATION WHICH MAY BE PRESENT ON THE STEEL ELEMENTS TO BE WELDED.
   c. MAXIMUM INTERPASS TEMPERATURE SHALL NOT EXCEED 550°F, MEASURED AT A DISTANCE NOT EXCEEDING THREE INCHES FROM THE START OF THE WELD PASS. WELDING OPERATORS AND INSPECTORS SHALL UTILIZE TEMPERATURE MEASURING DEVICES.
5. ALL SLAG SHALL BE REMOVED AFTER EACH WELD PASS AND THE WELD AND THE ADJACENT BASE METAL SHALL BE CLEANED BEFORE WELDING OVER PREVIOUSLY DEPOSITED WELD METAL. THIS REQUIREMENT SHALL APPLY NOT ONLY TO SUCCESSIVE LAYERS BUT ALSO TO SUCCESSIVE BEADS AND TO THE CRATER AREA WHEN WELDING IS RESUMED AFTER ANY INTERRUPTION, IN ACCORDANCE WITH AWS D1.1 SECTION 5.29.1.
6. PEENING SHALL NOT BE ALLOWED.
7. WELD RUN-OFF TABS SHALL NOT BE USED FOR FILLET WELDS (EXCEPT WHEN REQUIRED ON INTERLOCKING SLOTTED SIDE PLATES).
8. WELD END TERMINATIONS FOR RECESSED PLATE (D) OPTION ONLY WHERE WELD {3} IS REQUIRED ON BOTH WEB AND FLANGES :
   a. IN ORDER TO PREVENT TIE-IN BETWEEN THE ENDS OF WELD {3} CLOSEST TO THE INSIDE FACE OF SIDE PLATE {A} AND WELD {1} THE ENDS OF WELD {1} SHALL BE HELD BACK FROM THE FLANGE TIP OF COLUMN BY A DISTANCE EQUAL TO WELD {3} PLUS 1/8 INCH. IN NO CASE SHALL A WELD TIE-IN BETWEEN THE ENDS OF WELD {1} AND THE ENDS OF WELD {3} CLOSEST TO THE INSIDE FACE OF SIDE PLATE {A} BE ALLOWED. FABRICATION PRIORITY IS GIVEN HEREIN TO WELDING FILLET WELD {3} ALONG ITS FULL DISTANCE.
9. ARC STRIKES WITHIN THE SIDEPLATE PROTECTED ZONE ON BOTH THE INTERIOR AND EXTERIOR FACES OF SIDE PLATES {A}, WITHIN THE TOP AND BOTTOM 6 INCHES OF PLATE HEIGHT SHALL BE AVOIDED. IF THEY DO OCCUR, THEY SHALL BE REMOVED BY GRINDING AND SHALL HAVE BASE METAL REPAIRED PER AWS D1.8 SECTION 6.18, WITH NON-DESTRUCTIVE TESTING AS NECESSARY.

BOLTING

1. BOLTS/FASTENERS SHALL BE INSTALLED TO PRETENSIONED CONDITION USING ONE OF THE METHODS PRESCRIBED HERE: TURN-OF-NUT (A490), CALIBRATED WRENCH (A490), TWIST-OFF-TYPE TENSION-CONTROL BOLT (F2280), TORQUE AND ANGLE METHOD (F3148), OR W HEN HEAVY HEX BOLTS ARE REQUIRED DIRECT TENSION INDICATORS (DTI) (ASTM F959). FOR TURN-OF-NUT THE THREAD AND NUT SHOULD BOTH BE MARKED TO MAKE SURE THE REQUIRED TURN IS ACHIEVED.
2. FOR ALL PRETENSIONING METHODOLOGIES, ALL FASTENER ASSEMBLIES WITHIN THE JOINT SHALL FIRST BE BROUGHT TO A SNUG TIGHT CONDITION, FOLLOWED BY A SYSTEMATIC PRETENSIONING PROCESS. PRETENSIONING SHALL BEGIN AT THE MOST RIGID PART OF THE JOINT AND CONTINUE IN A MANNER THAT WILL MINIMIZE THE RELAXATION OF PREVIOUSLY PRETENSIONED FASTENERS, UNTIL THE CONNECTED PLIES ARE IN AS FIRM CONTACT AS POSSIBLE. IN ADDITION:
   a. FOR TURN-OF-NUT METHOD, AFTER SNUGGING THE JOINT USING AT LEAST A FEW IMPACTS OF A WRENCH OR THE FULL EFFORT OF AN IRON WORKER, ROUTINE MARKING OR MATCH-MARKING SHALL BE USED TO VERIFY RELATIVE BOLT AND NUT ROTATION TO RCSC TABLE 8.2. FOR BOLT LENGTHS OVER 4D UP TO 8D, THE BOLT OR NUT SHALL BE ROTATED 180 DEGREES (1/2 TURN). FOR BOLT LENGTHS OVER 8D UP TO 12D, THE BOLT OR NUT SHALL BE ROTATED 240 DEGREES (2/3 TURN). FOR BOLT LENGTHS OVER 12D, THE REQUIRED ROTATION SHALL BE DETERMINED USING A BOLT TENSION MEASUREMENT DEVICE.
   b. FOR CALIBRATED WRENCH METHOD, THE WRENCH AND BOLT ASSEMBLY LOT SHALL BE TESTED IN COMBINATION DAILY. IF NECESSARY, THE WRENCH SHALL BE CALIBRATED FOR PROPER OUTPUT PRIOR TO USE. THE INSTALLATION TORQUE NEED NOT PRODUCE A RELATIVE ROTATION EQUAL TO OR GREATER THAN THAT SPECIFIED BY THE TURN-OF-NUT METHOD.
   c. FOR TWIST-OFF-TYPE TENSION-CONTROL BOLT METHOD, FINAL TENSIONING SHALL BE DONE IN A CONTINUOUS OPERATION UNTIL THE TIP TWISTS OFF. ANY BOLT ASSEMBLIES WHICH HAD THE TIP TWIST OFF DURING THE SNUGGING OPERATION SHALL BE REMOVED AND REPLACED.
   d. FOR COMBINED METHOD (ASTM F3148), AFTER SNUGGING THE JOINT USING THE APPROPRIATE INSTALLATION TOOL, ROUTINE MONITORING OR MATCH MARKING SHALL BE USED TO VERIFY RELATIVE BOLT AND NUT ROTATION. FOR BOLT LENGTHS UP TO 4D, THE NUT SHALL BE ROTATED 90 DEGREES (1/4 TURN). FOR BOLT LENGTHS OVER 4D UP TO 8D, THE NUT SHALL BE ROTATED 120 DEGREES (1/3 TURN). FOR BOLT LENGTHS OVER 8D THE MANUFACTURER SHALL PROVIDE APPROPRIATE INSTALLATION REQUIREMENTS.
3. REUSE OF A490, F2280, AND F3148 BOLT ASSEMBLIES SHALL NOT BE ALLOWED. TOUCHING UP OR RE-TIGHTENING BOLTS THAT MAY HAVE BEEN LOOSENED BY THE INSTALLATION OF ADJACENT BOLTS SHALL NOT BE CONSIDERED TO BE A REUSE.
4. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
5. THE BOLT LENGTH USED SHALL BE SUCH THAT THE BOLT THREAD EXTENDS BEYOND OR IS AT LEAST FLUSH WITH THE OUTER FACE OF THE NUT WHEN PROPERLY INSTALLED.
6. FASTENER COMPONENTS SHALL BE PROTECTED FROM DIRT AND MOISTURE IN CLOSED CONTAINERS AT THE SITE OF INSTALLATION.
7. THE BOLT SHANK SHALL NOT EXTEND BEYOND THE CONNECTED PLIES. USE WASHER/SPACER IF NECESSARY TO PREVENT SHANK OUT CONDITION.
8. F2280 OR F3148 ASSEMB

QUALITY ASSURANCE

IN ADDITION TO ALL OTHER QUALITY ASSURANCE INSPECTION ACTIVITIES, THE OWNER'S VERIFICATION INSPECTOR SHALL BE RESPONSIBLE FOR:

1. WELDING:
   a. TO ASSURE THE PROPER AMPERAGE AND VOLTAGE OF THE WELDING PROCESS. THE USE OF HAND HELD CALIBRATED AMP AND VOLT METERS SHALL BE USED. THIS EQUIPMENT SHALL BE USED BY THE FABRICATOR AND THE INSPECTOR. AMPERAGE AND VOLTAGE SHALL BE MEASURED NEAR THE ARC. TRAVEL SPEED AND ELECTRODE STICK OUT SHALL BE VERIFIED TO BE IN COMPLIANCE WITH THE APPROVED WPS.
   b. VISUAL INSPECTION SHALL BE PERFORMED ON ALL SHOP WELDS.
   c. EACH WELDER EMPLOYED ON THE PROJECT SHALL UNDERSTAND ALL THE REQUIREMENTS OF THE WELDING PROCEDURE SPECIFICATION(S) BEFORE WELDING ON THE PROJECT.
   d. AS-BUILT BEAM TO COLUMN GAP PER CONNECTION SCHEDULE IS ALLOWED TO BE INSTALLED WITH A TOLERANCE OF PLUS OR MINUS 1/2 INCH.
   e. EACH WPS AND QUALIFICATION DOCUMENT SHALL BE SUBMITTED TO THE SEOR AND TO SIDEPLATE SYSTEMS, INC. FOR REVIEW AND APPROVAL PRIOR TO THE START OF FABRICATION.
   f. WHERE WELDING OF HORIZONTAL SHEAR PLATE {D} OR VERTICAL SHEAR PLATE {C} ENCROACH INTO THE K-AREA (AS DEFINED IN AISC 341), THE WEB SHALL BE VISUALLY CHECKED FOR CRACKS. THE INSPECTION AREA SHALL INCLUDE THE K-AREA BASE METAL WITHIN 3 INCHES OF THE WELD. THE INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING PER AWS D1.8, SECTION 7.4.
2. FAYING SURFACES:
   a. THE SURFACES ADJACENT TO THE BOLT HEAD AND NUT SHALL BE FREE OF DIRT AND OTHER FOREIGN MATERIAL. COMPRESSIBLE MATERIALS, OTHER THAN THE SPECIFIED COATINGS, SHALL NOT BE PLACED WITHIN THE GRIP OF THE BOLT.
   b. FAYING SURFACES ARE PERMITTED TO BE COATED AND UNCOATED AND SHALL BE FREE OF LOOSE SCALE AND ANY INADVERTENT OVERSPRAY. IF COATING IS REQUIRED, THE FAYING SURFACES SHALL FIRST BE BLAST CLEANED AND SUBSEQUENTLY COATED WITH A COATING THAT QUALIFIES AS A CLASS 'A' COATING.
   c. GALVANIZED FAYING SURFACES SHALL BE IN ACCORDANCE WITH ASTM A123.
   d. TO AVOID COMPRESSIVE CREEP AND SIGNIFICANT LOSS OF PRETENSION, THE COMBINED COATING THICKNESS SHALL IN NO CASE BE MORE THAN 15 MILS PER SURFACE.
   e. AFTER THE CONNECTIONS HAVE BEEN ASSEMBLED, VISUALLY ENSURE THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO AS CLOSE OF CONTACT AS PRACTICABLE WITH ONE ANOTHER. GAPS UP TO 1/8 INCH BETWEEN THE SURFACES SHALL BE ALLOWED. GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH SHALL HAVE FINGER SHIMS INSTALLED BEFORE PRETENSIONING. FOR GAPS GREATER THAN 1/4 INCH, CONTACT SIDEPLATE SYSTEMS, INC.

3. PRETENSIONING:
   A MINIMUM BOLT PRETENSION VALUE SHALL BE AS FOLLOWS: 1 INCH DIAMETER = 64 KIPS, 1 1/8 INCH DIAMETER = 80 KIPS, 1 1/4 INCH DIAMETER = 102 KIPS, AND 1 1/2 INCH DIAMETER = 148 KIPS. THE INSPECTOR SHALL OBSERVE THE PRE-INSTALLATION VERIFICATION TESTING. SUBSEQUENTLY, THE INSPECTOR SHALL ENSURE THAT THE BOLTING CREW PROPERLY FOLLOW THE CORRECT METHODOLOGY OUTLINED BELOW:
   a. FOR TURN OF THE NUT METHOD: BY VISUAL OBSERVATION ENSURE THAT THE NUT AND PROTRUDING END OF THE BOLT HAVE BEEN MATCH-MARKED SO THAT THE PROPERLY ROTATED TURNED ELEMENT CAN BE VISUALLY OBSERVED RELATIVE TO THE UNTURNED ELEMENT.
   b. FOR CALIBRATED WRENCH METHOD: BY ROUTINE OBSERVATION ENSURE THAT THE CALIBRATED WRENCH IS BEING APPLIED TO THE TURNED ELEMENT.
   c. FOR TWIST-OFF-TYPE TENSION CONTROL METHOD: BY ROUTINE OBSERVATION ENSURE THAT THE SPLINED ENDS ARE PROPERLY SEVERED DURING INSTALLATION.
   d. FOR COMBINED METHOD (ASTM F3148): BY ROUTINE OBSERVATION OR MATCH MARKING TO VERIFY RELATIVE BOLT AND NUT ROTATION.

PROTECTED ZONES

1. PER AISC 341 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, SECTION D1.3, SPECIAL (SMF) AND INTERMEDIATE (IMF) MOMENT FRAME SYSTEMS SHALL HAVE DESIGNATED PROTECTED ZONES AS FOLLOWS:
   BEAM
   - THE PROTECTED ZONE STARTS FROM THE VERTICAL EDGE OF SIDE PLATE {A}, AWAY FROM THE COLUMN, AND ENDS ON THE BEAM AS DETAILED. SEE SIDEPLATE TYPICAL DETAILS. SHOT PINS AND PUDDLE WELDS ARE ALLOWED IN THE BEAM PROTECTED ZONE TO SECURE METAL DECKING. THEY SHALL NOT PENETRATE MORE THAN 85% OF THE BEAM FLANGE THICKNESS.

   SIDE PLATE
   - THE PROTECTED ZONE FOR THE SIDE PLATES {A} ARE DEFINED AS A RECTANGULAR AREA AT THE COLUMN/BEAM SEPARATION (GAP) ALONG THE TOP AND BOTTOM EDGES OF THE SIDE PLATES {A}. SEE SIDEPLATE TYPICAL DETAILS. NOTE: WELDS {2} AND {8} ARE EXEMPT FROM THIS PROTECTED ZONE AND SHALL BE PERFORMED FOR THEIR ENTIRE REQUIRED LENGTH.
2. IDENTIFICATION OF PROTECTED ZONES
   a. THE CONTRACTOR SHALL IDENTIFY THE PROTECTED ZONES ON BOTH THE BEAM AND THE SIDE PLATES {A} BY USING ANY SUITABLE NON-DESTRUCTIVE MEANS.
   b. ONCE THE STEEL DECKING IS IN PLACE, THE CONTRACTOR SHALL USE ANY SUITABLE NON-DESTRUCTIVE MEANS TO IDENTIFY THE PROTECTED ZONES PRIOR TO THE INSTALLATION OF SHEAR STUDS, DECK ATTACHMENTS, ETC.
   c. AFTER SPRAYED ON FIRE-RESISTIVE MATERIAL HAS BEEN APPLIED, THE CONTRACTOR SHALL USE ANY SUITABLE NON-DESTRUCTIVE MEANS TO IDENTIFY THE PROTECTED ZONES FOR OTHER DISCIPLINES TO PRECLUDE UNAUTHORIZED ATTACHMENTS.

HOT DIPPED GALVANIZING

1. SIDEPLATE CONNECTIONS REQUIRING THIS TYPE OF FINISH SHALL FOLLOW THE SAME CONSTRUCTION SEQUENCING AS PREVIOUSLY OUTLINED WITH THE FOLLOWING MODIFICATIONS:
   a. AS APPLICABLE, HORIZONTAL SHEAR PLATES {D} SHALL HAVE AN INCREASED CLIP SIZE WHICH SHALL BE 1 5/8 INCH BY 1 5/8 INCH TO PROVIDE ADEQUATE VENTILATION AND DRAINAGE. CONTACT SIDEPLATE SYSTEMS, INC. IN THE EVENT THAT THE GALVANIZING CONTRACTOR SPECIFICATIONS REQUIRE A LARGER OPENING THAN THAT SPECIFIED HEREIN.
   b. SEAL WELDING SHALL NOT BE ALLOWED ON THE SIDE PLATES {A}, COVER PLATES {B}, AND/OR ANGLES {H}; THUS, THEY SHALL HAVE A 1/16 INCH GAP INTRODUCED BETWEEN THEM AND THE OUTBOARD FACE OF THE BEAM FLANGES TO ALLOW THE MOLTEN ZINC TO PENETRATE AND SEAL BETWEEN THEIR FAYING SURFACES.
   c. ANGLE {H} PLACEMENT AND COVER PLATE {B} WIDTH AND HOLE LOCATIONS SHOULD BE ADJUSTED AND DETAILED CORRECTLY IN THE DETAILING OF THE BEAM DUE TO AN INCREASED OUT-TO-OUT DIMENSION OF GAPPED SIDE PLATES {A} ON THE MOMENT FRAME COLUMN.
   d. DEPTH OF SIDE PLATES {A} AND HOLE LOCATIONS SHOULD BE ADJUSTED AND DETAILED CORRECTLY FOR THE INCREASED DIMENSION BETWEEN GAPPED COVER PLATE {B} (WHEN APPLICABLE) AND GAPPED ANGLES {H} ON THE MOMENT FRAME BEAM.
   e. ANY DEVIATIONS TO THESE MODIFICATIONS SHALL BE COORDINATED WITH SIDEPLATE SYSTEMS, INC. AND THE SEOR.
2. IF CONTRACTOR ELECTS TO USE A490 BOLTS AND THE PROJECT SPECIFICATIONS REQUIRE GALVANIZATION, ADDITIONAL REQUIREMENTS SHALL BE APPLIED TO THE A490 MATERIAL. A490 BOLTS SHALL NOT BE HOT DIP GALVANIZED. FOR ASTM A490 BOLTS, THE PROPER CORROSION PROTECTION SHALL BE A ZINC/ALUMINUM INORGANIC COATING THAT IS IN CONFORMANCE WITH ASTM F1136 GRADE 3. EXAMPLES OF SUCH COATINGS, BUT NOT ENDORSED HEREIN, ARE MAGNI® 556 AND GEOMET® 321, OR DACROMET®.
3. STANDARD ASTM A490 BOLTS WITH ADDITIONAL PROCESS FOR COATINGS SHALL REQUIRE EVIDENCE OF COMPLIANCE (CERTIFICATION, LETTER, OR SIMILAR) FROM THE APPLICATOR.

FIREPROOFING

1. WHEN REQUIRED BY THE GOVERNING CODE FOR CERTAIN TYPES OF CONSTRUCTION, SIDEPLATE CONNECTIONS SHALL HAVE A FIRE-RESISTANCE RATING LIKE THAT OF A STEEL "STRUCTURAL FRAME".
2. THE MINIMUM THICKNESS OF SPRAY-APPLIED FIRE-RESISTIVE MATERIAL (SFRM) FOR STEEL SIDEPLATE CONNECTIONS PLATES THAT ARE NOT ENCASED IN CONCRETE, SHALL BE DETERMINED JUST LIKE THAT OF A PIPE/TUBE COLUMN SECTION WITH A CONSTANT STEEL WALL THICKNESS USING THE THICKNESS OF SIDE PLATE {A} FOR EACH SIDEPLATE CONNECTION ID PER THE SIDEPLATE CONNECTION SCHEDULE, WHICH ARE UNIFORMLY HEATED AND PROTECTED (THE FIRE EXPOSURE OF A PIPE/TUBE COLUMN IS DIRECTLY ANALOGOUS TO A PLATE WITH A 1-SIDED FIRE EXPOSURE AND PROTECTION). THE SFRM SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ASTM E119 AND LISTED FOR FIRE RESISTIVE PIPE/TUBE COLUMN APPLICATIONS FOR NO LESS THAN THE REQUIRED RATED TIME.
3. WHEN NO VSE OPTION IS SPECIFIED, PROVIDE A CLOSURE PLATE, AS NEEDED, FOR SFRM MATERIAL TO MORE EASILY ADHERE TO. ATTACH CLOSURE PLATE TO THE INSIDE OR OUTSIDE FACE OF THE SIDE PLATE {A} WITHIN THE MIDDLE HALF OF THE SIDE PLATE {A} HEIGHT. DO NOT ATTACH CLOSURE PLATE TO THE BEAM FLANGES OR WEB.
4. THE CONTRACTOR SHALL PROVIDE THE MEANS, TYPICALLY DONE WITH A LAYERING TECHNIQUE, FOR FIREPROOFING ACROSS THE PHYSICAL COLUMN/BEAM SEPARATION (GAP) BETWEEN THE BOTTOM BEAM FLANGE AND THE FACE OF THE COLUMN FLANGE. IF CLOSURE IS REQUIRED FOLLOW ITEMS 4a AND 4b IN THE SIDEPLATE CONSTRUCTION GUIDELINES.

INTELLECTUAL PROPERTY

1. IN ORDER TO SAFEGUARD THE AUTHORIZED USE AND INTELLECTUAL PROPERTY OF THE PATENTED SIDEPLATE CONNECTION TECHNOLOGY, THE STEEL FABRICATION SUBCONTRACTOR SHALL SATISFY THE FOLLOWING REQUIREMENTS:
   a. A NOTICE OF INTELLECTUAL PROPERTY, IDENTICAL TO THAT PROVIDED ON THIS SHEET, SHALL BE AFFIXED ON EACH SHEET OF SHOP DETAIL AND FIELD ERECTION DRAWINGS CONTAINING SIDEPLATE SYSTEM INFORMATION WHICH DISCLOSES IN ANY WAY THE SIDEPLATE CONNECTION CONCEPT PRIOR TO RELEASING SUCH INFORMATION FOR ITS INTENDED USE. SUCH NOTICE SHALL BE PROVIDED TO THE STEEL FABRICATION SUBCONTRACTOR BY SIDEPLATE SYSTEMS, INC. IN A FORMAT (E.G. WORD OR AUTOCAD) SUITABLE TO THE NEEDS OF THE STEEL FABRICATION SUBCONTRACTOR'S DETAILER.
   b. PATENT LABELS SHALL BE APPLIED IN COMPLIANCE WITH THE GOVERNING PATENT AND INTELLECTUAL PROPERTY LAWS AND SHALL BE PLACED, AS A MINIMUM, IN THE FOLLOWING LOCATIONS:
      1. COLUMN SUB ASSEMBLY:
         - IF PLATE {D} IS REQUIRED, PLACE ONE STICKER ON THE OUTSIDE FACE OF ONE OF THE TWO BOTTOM HORIZONTAL PLATES {D}
         - IF PLATE {D} IS NOT REQUIRED, PLACE ONE STICKER ON THE WEB OF THE COLUMN BEHIND THE SIDE PLATES {A}.
      2. BEAM SUB ASSEMBLY:
         - PLACE ONE STICKER ON ONE END OF THE BEAM BETWEEN THE TOP AND BOTTOM FLANGES WHERE SIDEPLATE CONNECTIONS OCCUR.

INTELLECTUAL PROPERTY RIGHTS NOTICE

The SIDEPLATE® steel frame connection system is covered by one or more of U.S. Pat. Nos. 6,138,427; 6,516,583; 6,591,573; 7,178,296; 8,122,671; 8,122,672; 8,146,322; 8,176,706; 8,205,408; and 9,091,065 and foreign counterparts.
Other U.S. and foreign applications pending.

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APP: 02-123377 INC: 02
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DATE: 01/08/2026

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WALNUT CREEK, CA 94598
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RTM JOB NO.: 450.043

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER ANDREW KIM No. S 6654 STRUCTURAL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. PITTS No. 5692 Exp. 12-31-26 STRUCTURAL STATE OF CALIFORNIA

10/09/2025

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

SIDEPLATE GENERAL NOTES (2 OF 2)

SIDEPLATE® POWERED BY MiTek

SHEET NUMBER:

S902-02

INTELLECTUAL PROPERTY RIGHTS NOTICE
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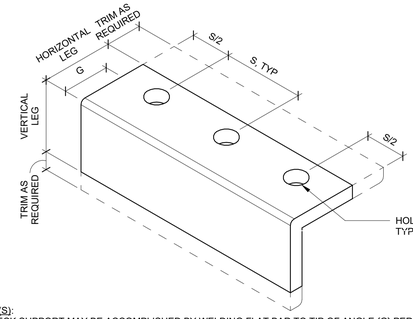
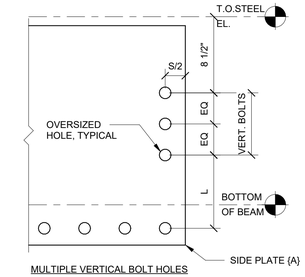
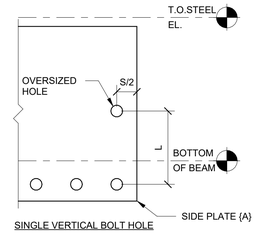


NOTE(S):
1. DECK SUPPORT MAY BE ACCOMPLISHED BY WELDING FLAT BAR TO TIP OF ANGLE {G} PER DETAIL 4 / S910-02 OR BY EXTENDING HORIZONTAL LEG OF ANGLE {G} PER DETAIL 6 / S910-02
2. EDGE SUPPORT MAY BE ACCOMPLISHED BY WELDING FLAT BAR TO TIP OF ANGLE {G} PER DETAIL 5 / S910-02 OR BY EXTENDING HORIZONTAL LEG OF ANGLE {G} PER DETAIL 3 / S910-02
3. SUGGESTED ANGLE {G} SIZE PROVIDED IN SCHEDULE IS BASED ON COMMONLY AVAILABLE SHAPES PER AISC. IF THE ANGLE {G} SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER AVAILABLE ANGLE SECTION.
4. ANY ANGLE OF THE REQUIRED THICKNESS THAT IS CAPABLE OF MEETING THE PROPER MATERIAL SPECIFICATIONS AND THE DIMENSIONS SHOWN ABOVE MAY BE USED FOR ANGLE {G}.
5. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE STEEL FABRICATOR WHAT THE PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA WILL BE.

4 ANGLE {G} DETAIL
N.T.S.



MULTIPLE VERTICAL BOLT HOLES



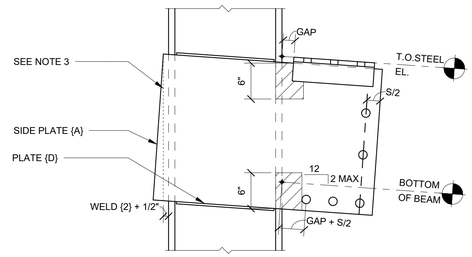
SINGLE VERTICAL BOLT HOLE

NOTE(S):
1. SEE COLUMN SCHEDULE FOR BOLT QUANTITY.
2. TOP ANGLE {G} NOT SHOWN FOR CLARITY.

3 SIDE PLATE {A} VSE BOLT HOLE DETAIL
N.T.S.

ID	COLUMN PANEL ZONE DESIGN (INCHES)						SIDE PLATE {A} EXTENSION DESIGN (INCHES)												
	COLUMN	PLATE	WELD				BEAM			PLATE			ANGLE			WELD	BOLT			
	SERIES	{D}	{1}	{2}		{3}	SHAPE	GAP	VSE APPLICABILITY	{A}			{G}			{8}	DIAMETER	HORIZONTAL #	G	S
		THICKNESS	SIZE	SIZE	HOLD BACK	SIZE				THICKNESS	B	Y	SUGGESTED SIZE	HORIZONTAL LEG	VERTICAL LEG	SIZE				
A10	W16x, W18x	3/8	1/4	3/8	1 1/2	1/4	W16X50	2	No	7/8	19 3/4	1 3/8	L6X6X5/8	4 to 6	4 to 6	7/16	1 1/8	3	2 1/2	5
A20	W16x, W18x	3/8	1/4	3/8	1 1/2	1/4	W21X62	2	No	7/8	24 1/2	2 1/4	L6X6X5/8	4 to 6	4 to 6	3/8	1 1/8	4	2 1/2	5

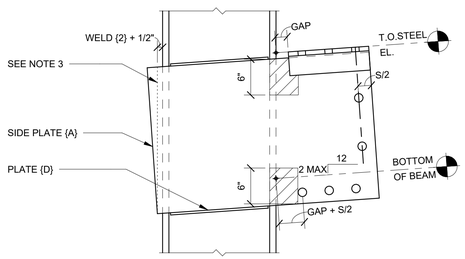
2 A TYPE COLUMN CONNECTION SCHEDULE
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

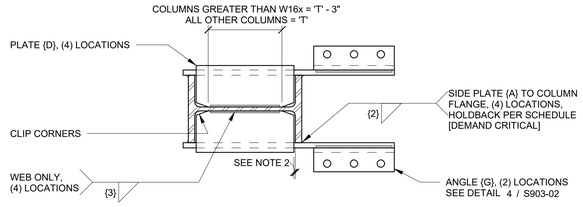
6 SLOPED DOWN CONNECTION
N.T.S.



FRONT ELEVATION

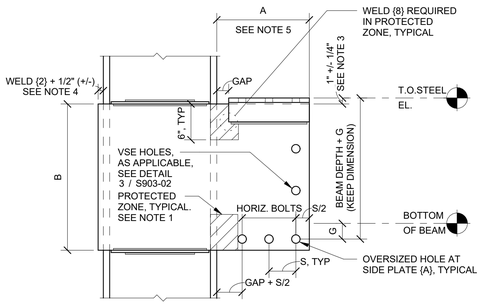
NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

5 SLOPED UP CONNECTION
N.T.S.

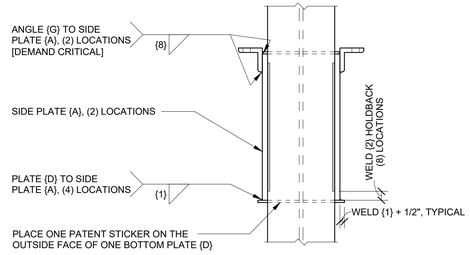


PLAN VIEW

ISOMETRIC



FRONT ELEVATION



SIDE ELEVATION

NOTE(S):
1. PROTECTED ZONE ON SIDE PLATE EXTENDS FROM INSIDE FACE OF COLUMN FLANGE TO EDGE OF BOLT HOLE.
2. DIMENSION BETWEEN PLATE {D} AND INSIDE FACE OF COLUMN FLANGE SHALL NOT EXCEED 1/4 INCH. THIS DIMENSION MAY VARY DEPENDING ON THE DETAILER'S PREFERENCE TO ACCOMMODATE MILL TOLERANCE AND/OR THE UNIFORMITY OF PIECE MARKS.
3. THE +/- 1/4 INCH TOLERANCE FOR PLACEMENT OF ANGLES {G} IS TO ENSURE CORRECT TOP OF STEEL PLACEMENT RELATIVE TO THE CENTERLINE OF THE BOTTOM HORIZONTAL ROW OF BOLT HOLES. THE PLACEMENT OF ANGLES {G} SHALL NEVER BE MEASURED FROM THE BOTTOM EDGE OF SIDE PLATE {A} TO ESTABLISH THE CORRECT TOP OF STEEL.
4. THE 1/2 INCH OVERHANG ON THE SIDE PLATE {A} IS TO ENSURE SUFFICIENT ROOM FOR WELD {2}, THE +/- TOLERANCE IS APPLIED SO THAT IF DESIRED, THE DETAILER CAN MAKE THE SIDE PLATES {A} THE SAME LENGTH WITH SLIGHTLY VARYING COLUMN DEPTHS WITHIN A GROUP OF THE SAME CONNECTION ID'S.
5. DIMENSION A = GAP+(HORIZONTAL BOLTS)*(S)

1 A TYPE BOLTED CONNECTION
N.T.S.

SIDEPLATE® POWERED BY MiTek

IDENTIFICATION STAMP
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APP: 02-123377 INC: 02
REVIEWED FOR
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DATE: 01/08/2026

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RTM JOB NO.: 450.043

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REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. PITTS No. 5692 Exp. 12-31-26 STRUCTURAL STATE OF CALIFORNIA
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MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

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SHEET TITLE
SIDEPLATE COLUMN DETAILS, A TYPE

SHEET NUMBER:
S903-02

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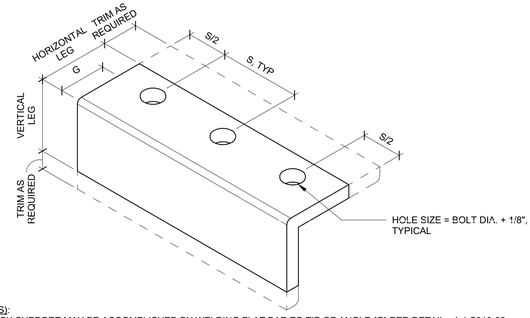

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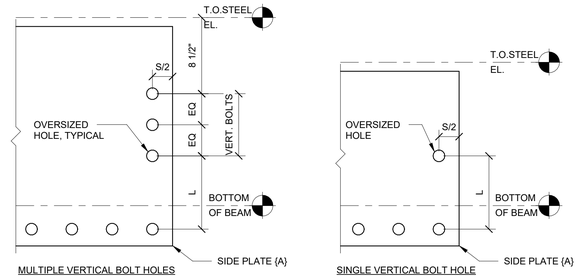
4 ANGLE {G} DETAIL
N.T.S.

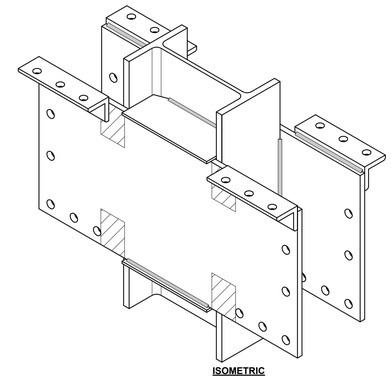


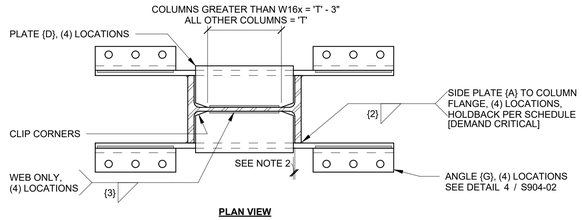
NOTE(S):
1. SEE COLUMN SCHEDULE FOR BOLT QUANTITY.
2. TOP ANGLE {G} NOT SHOWN FOR CLARITY.

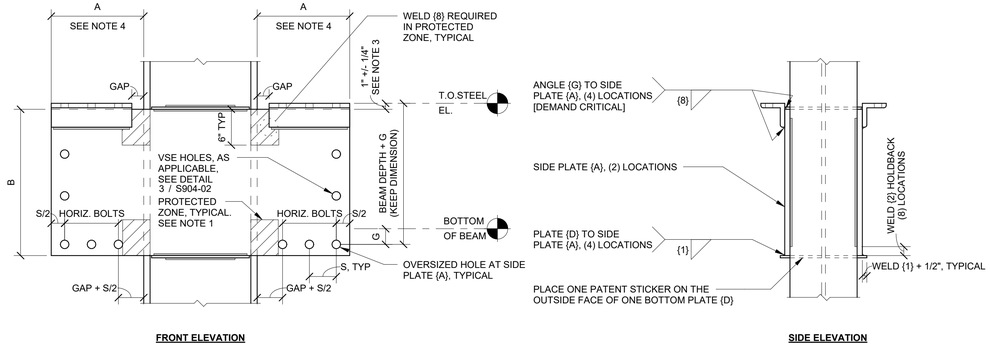
3 SIDE PLATE {A} VSE BOLT HOLE DETAIL (AS APPLICABLE)
N.T.S.

ID	COLUMN PANEL ZONE DESIGN (INCHES)						SIDE PLATE {A} EXTENSION DESIGN (INCHES)											
	COLUMN	PLATE	WELD				BEAM			PLATE			ANGLE			WELD	BOLT			
	SERIES	{D}	{1}	{2}		{3}	SHAPE	GAP	VSE APPLICABILITY	{A}			{G}			{8}	DIAMETER	HORIZONTAL #	G	S
		THICKNESS	SIZE	SIZE	HOLD BACK	SIZE				THICKNESS	B	Y	SUGGESTED SIZE	HORIZONTAL LEG	VERTICAL LEG	SIZE				
B10	W18x	3/8	1/4	7/16	1 1/2	1/4	W16X50	2	No	7/8	19 3/4	1 3/8	L6X6X5/8	4 to 6	4 to 6	3/8	1 1/8	3	2 1/2	5

2 B TYPE COLUMN CONNECTION SCHEDULE
N.T.S.







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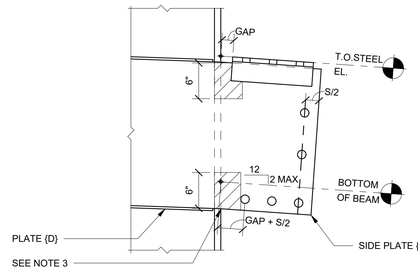
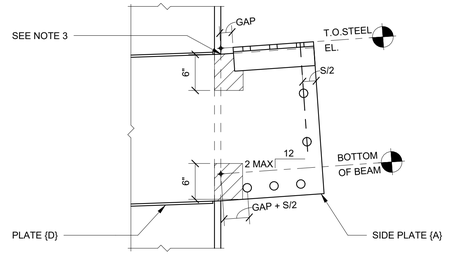
1 B TYPE BOLTED CONNECTION
N.T.S.



NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

6 SLOPED DOWN CONNECTION
N.T.S.



NOTE(S):
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3. BEGIN SLOPE OF SIDE PLATE AT OUTSIDE FACE OF COLUMN FLANGE, TYPICAL. NOTE THAT SLOPE OF SIDE PLATE WITHIN THE COLUMN EXTENTS MAY NOT MATCH SLOPE OF BEAM.

5 SLOPED UP CONNECTION
N.T.S.

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DATE: 01/08/2026

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712 BANCROFT ROAD #297
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RTM JOB NO.: 450.043

CONSULTANT'S SEAL:
REGISTERED PROFESSIONAL ENGINEER ANDREW KIM No. S 6654 STRUCTURAL STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. PITTS No. 5692 Exp. 12-31-26 STRUCTURAL STATE OF CALIFORNIA
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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
SIDEPLATE COLUMN DETAILS, B TYPE

SHEET NUMBER:
S904-02

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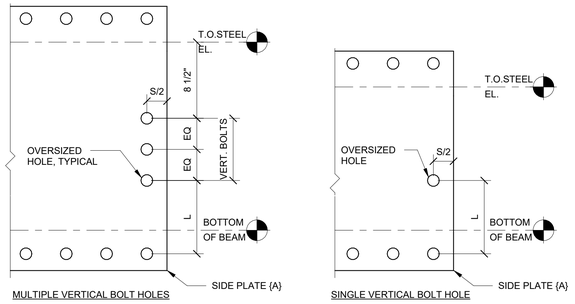


MULTIPLE VERTICAL BOLT HOLES

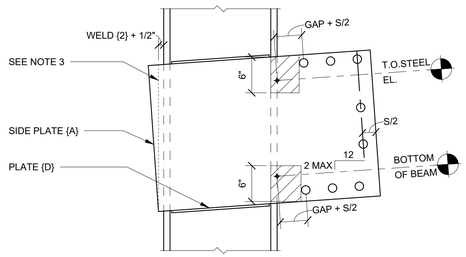
SINGLE VERTICAL BOLT HOLE

NOTE(S):
1. SEE COLUMN SCHEDULE FOR BOLT QUANTITY.

3 SIDE PLATE {A} VSE BOLT HOLE DETAIL (AS APPLICABLE)
N.T.S.

ID	COLUMN PANEL ZONE DESIGN (INCHES)						SIDE PLATE {A} EXTENSION DESIGN (INCHES)									
	COLUMN	PLATE	WELD				BEAM			PLATE				BOLT			
	SERIES	{D}	{1}	{2}		{3}	SHAPE	GAP	VSE APPLICABILITY	{A}				DIAMETER	HORIZONTAL #	G	S
		THICKNESS	SIZE	SIZE	HOLD BACK	SIZE				THICKNESS	B	E	Y				
A21	W18x	3/8	1/4	1/4	1 1/2	1/4	W21X62	1 1/2	No	5/8	29 1/2	1 1/2	2 7/8	1 1/8	4	2 1/2	5

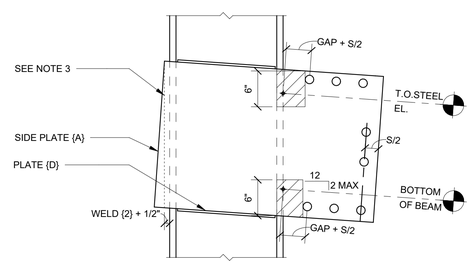
2 A TYPE NARROW COLUMN CONNECTION SCHEDULE
N.T.S.



FRONT ELEVATION

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.
2. COORDINATE PLATES, ANGLES, AND DIMENSIONS WITH RESPECT TO THE SLOPE OF THE CONNECTION.
3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

5 SLOPED UP CONNECTION
N.T.S.



FRONT ELEVATION

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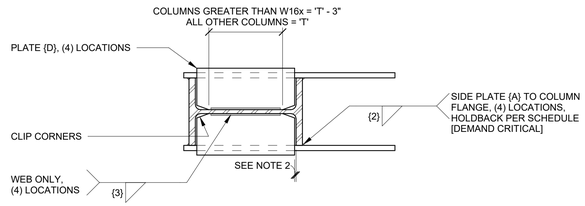
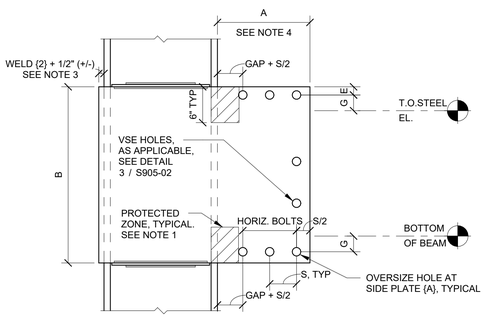
3. AT CONTRACTOR'S DISCRETION, SIDE PLATE {A} MAY BE CUT AS SHOWN.

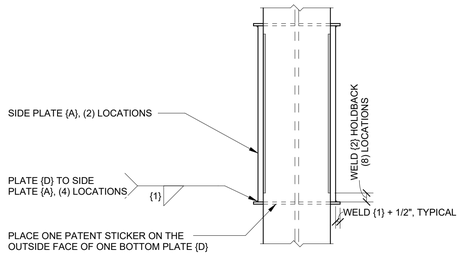
4 SLOPED DOWN CONNECTION
N.T.S.



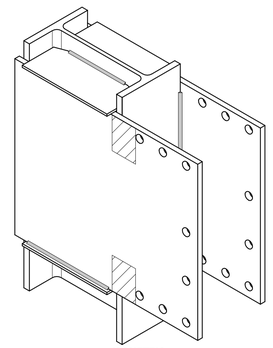
PLAN VIEW



FRONT ELEVATION



SIDE ELEVATION



ISOMETRIC

NOTE(S):
1. PROTECTED ZONE ON SIDE PLATE EXTENDS FROM INSIDE FACE OF COLUMN FLANGE TO EDGE OF BOLT HOLE.
2. DIMENSION BETWEEN PLATE {D} AND INSIDE FACE OF COLUMN FLANGE SHALL NOT EXCEED 1/4 INCH. THIS DIMENSION MAY VARY DEPENDING ON THE DETAILER'S PREFERENCE TO ACCOMMODATE MILL TOLERANCE AND/OR THE UNIFORMITY OF PIECE MARKS.
3. THE 1/2 INCH OVERHANG ON THE SIDE PLATE {A} IS TO ENSURE SUFFICIENT ROOM FOR WELD {2}, THE +/- TOLERANCE IS APPLIED SO THAT IF DESIRED, THE DETAILER CAN MAKE THE SIDE PLATES {A} THE SAME LENGTH WITH SLIGHTLY VARYING COLUMN DEPTHS WITHIN A GROUP OF THE SAME CONNECTION ID'S.
4. DIMENSION A = GAP+(HORIZONTAL BOLTS)*(S)

1 A TYPE NARROW BOLTED CONNECTION
N.T.S.

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
SIDEPLATE COLUMN DETAILS, A TYPE NARROW

SHEET NUMBER:
S905-02

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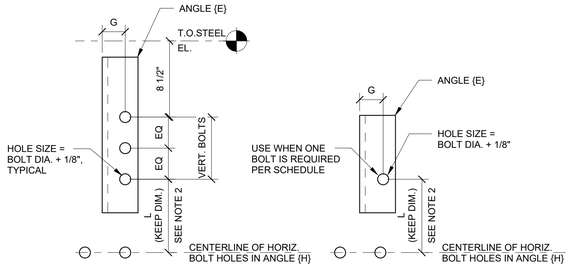
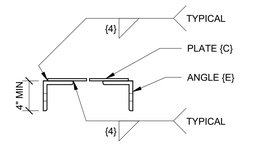
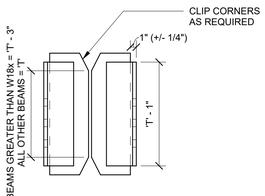


NOTE(S):
1. SEE BEAM END SCHEDULE FOR BOLT QUANTITY.
2. EFFECTS OF MILL AND FABRICATION TOLERANCES ARE ACCOUNTED FOR BY MEASURING FROM THE CENTERLINE OF THE HORIZONTAL ROW OF BOLTS IN THE BOTTOM ANGLES {H}.

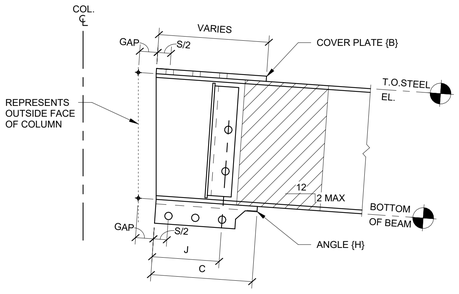
8 VSE {F} HOLES AND PLACEMENT (AS APPLICABLE)
N.T.S.





NOTE(S):
1. SEE SIDEPLATE SCHEDULE FOR BOLT QUANTITY

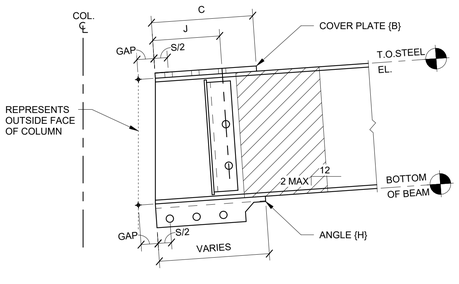
7 VSE {F} DETAIL (AS APPLICABLE)
N.T.S.



ELEVATION VIEW

NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

6 SLOPED DOWN BEAM END
N.T.S.



ELEVATION VIEW

NOTE(S):
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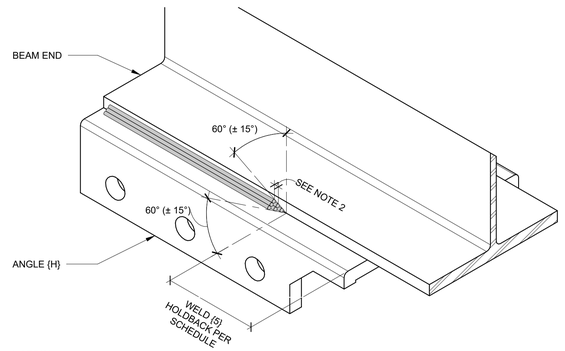
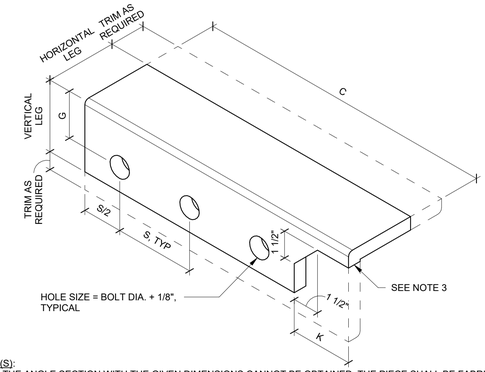
5 SLOPED UP BEAM END
N.T.S.



NOTE(S):
1. WELD {5} IS SHOWN FROM THE BOTTOM BEAM FLANGE TO THE BOTTOM ANGLE {H}, BUT IT ALSO OCCURS ON THE TOP BEAM FLANGE WHERE IT CONNECTS TO COVER PLATE {B} OR TOP ANGLE {H}. THERE ARE FOUR TOTAL LOCATIONS PER BEAM END.
2. USING APPROXIMATELY A 1/4 INCH STEP BETWEEN ALL WELD PASSES WILL PROVIDE THE REQUIRED TRANSITION AS DEMONSTRATED THROUGH PHYSICAL TESTING. END PROFILE SHALL BE APPROXIMATELY 60 DEGREES +/- 15 DEGREES.

4 WELD {5} HOLDBACK AND END PROFILE
N.T.S.

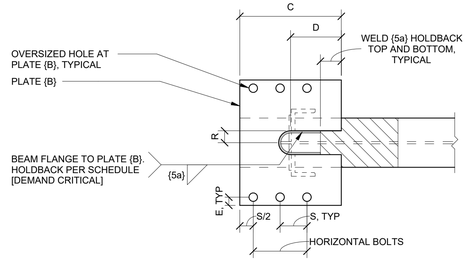


NOTE(S):
1. IF THE ANGLE SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER ROLLED ANGLE SECTION.
2. SUGGESTED ANGLE {H} SIZE PROVIDED IN SCHEDULE IS BASED ON COMMONLY AVAILABLE SHAPES PER AISC. IF THE ANGLE {H} SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER AVAILABLE ANGLE SECTION.
3. ANY ANGLE OF THE REQUIRED THICKNESS THAT IS CAPABLE OF MEETING THE PROPER MATERIAL SPECIFICATIONS AND LEG DIMENSION REQUIREMENTS GIVEN IN THE SCHEDULE MAY BE USED FOR ANGLE {H}.
4. MITER CUT NEED NOT BE FLUSH WITH HORIZONTAL LEG. DIMENSION MITER CUT TO UNDERSIDE OF HORIZONTAL LEG SHALL NOT EXCEED 1/2 INCH.

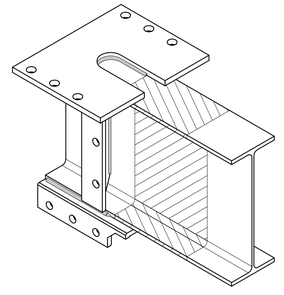
3 ANGLE {H} DETAIL
N.T.S.

ID	BEAM DESIGN (INCHES)																					
	BEAM			PLATE					ANGLE					WELD				BOLT				
	SHAPE	GAP	VSE APPLICABILITY	{B}					{H}					{5}		{5a}		DIAMETER	HORIZONTAL #	G		S
				THICKNESS	D	E	R	H	SUGGESTED SIZE	C	K	HORIZONTAL LEG	VERTICAL LEG	SIZE	HOLD BACK	SIZE	HOLD BACK					
A10, B10	W16X50	2	No	3/4	9	1 1/2	1 1/2	9 3/4	L4X4X5/8	17 1/2	2 1/2	4	4	7/16	4 1/2	7/16	2 1/2	1 1/8	3	2 1/2		5
A20	W21X62	2	No	3/4	13 1/2	1 1/2	2	9 3/4	L4X4X5/8	23 1/2	3 1/2	4	4	3/8	5 1/2	3/8	3 1/2	1 1/8	4	2 1/2		5

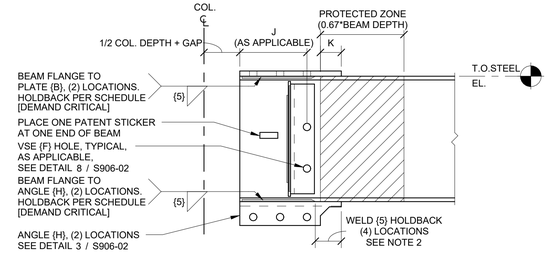
2 BEAM END SCHEDULE
N.T.S.



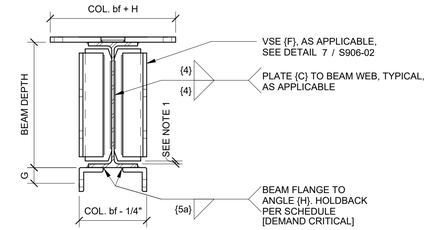
PLAN VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SECTION VIEW

NOTE(S):
1. DIMENSION BETWEEN PLATE {C} AND INSIDE FACE OF BEAM FLANGE SHALL NOT EXCEED 1/4 INCH, AND MAY VARY DEPENDING ON BEAM MILL TOLERANCES. PLATE {C} SHALL BE CENTERED ON THE DEPTH OF THE BEAM.
2. THIS HOLDBACK AND WELD END PROFILE ARE CRITICAL TO THE PERFORMANCE OF THE CONNECTION. SEE DETAIL 4 / S906-02

1 BEAM END DETAIL
N.T.S.

SMF BOLTED
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yc+d ARCHITECTURE
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RTM JOB NO.: 450.043

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10/09/2025
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PROJECT:
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MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
SIDEPLATE BEAM DETAILS

SHEET NUMBER:
S906-02

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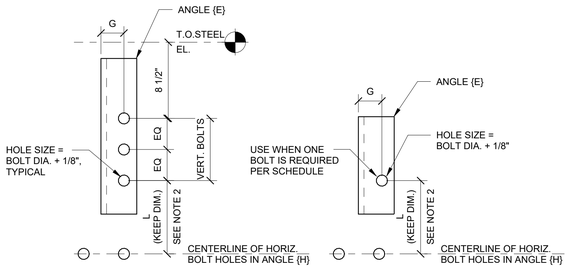
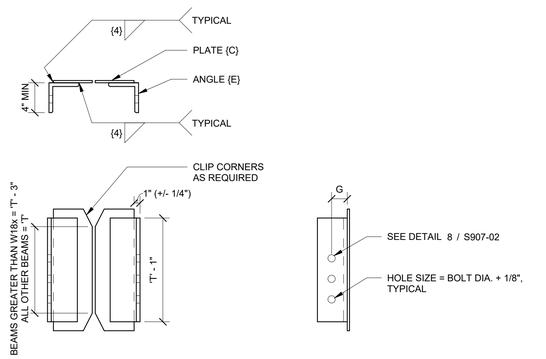


NOTE(S):
1. SEE BEAM END SCHEDULE FOR BOLT QUANTITY.
2. EFFECTS OF MILL AND FABRICATION TOLERANCES ARE ACCOUNTED FOR BY MEASURING FROM THE CENTERLINE OF THE HORIZONTAL ROW OF BOLTS IN THE BOTTOM ANGLES {H}.

8 VSE {F} HOLE DETAIL (AS APPLICABLE)
N.T.S.



NOTE(S):
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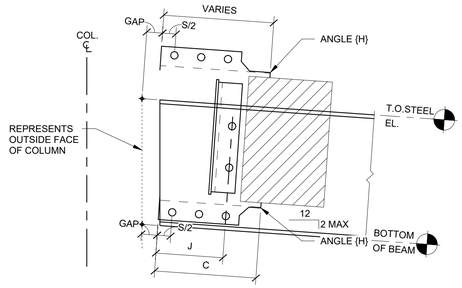
7 VSE {F} DETAIL (AS APPLICABLE)
N.T.S.



ELEVATION VIEW

NOTE(S):
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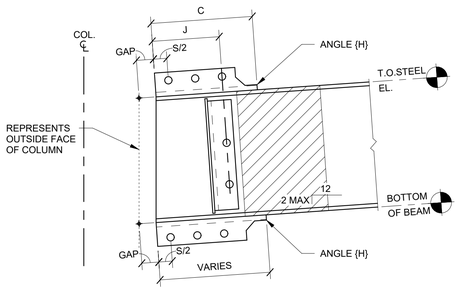
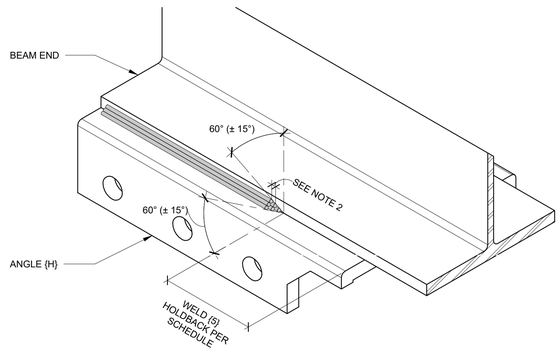
6 SLOPED DOWN BEAM END
N.T.S.



ELEVATION VIEW

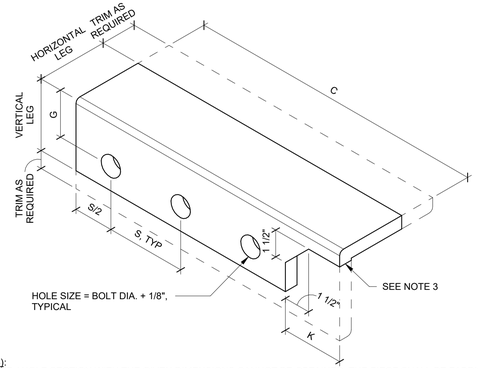
NOTE(S):
1. FOR BEAM SLOPES GREATER THAN 2 INCHES PER FOOT, CONTACT SIDEPLATE SYSTEMS, INC.

5 SLOPED UP BEAM END
N.T.S.



NOTE(S):
1. WELD {5} IS SHOWN FROM THE BOTTOM BEAM FLANGE TO THE BOTTOM ANGLE {H}, BUT IT ALSO OCCURS ON THE TOP BEAM FLANGE WHERE IT CONNECTS TO COVER PLATE {B} OR TOP ANGLE {H}. THERE ARE FOUR TOTAL LOCATIONS PER BEAM END.
2. USING APPROXIMATELY A 1/4 INCH STEP BETWEEN ALL WELD PASSES WILL PROVIDE THE REQUIRED TRANSITION AS DEMONSTRATED THROUGH PHYSICAL TESTING. END PROFILE SHALL BE APPROXIMATELY 60 DEGREES +/- 15 DEGREES.

4 WELD {5} HOLDBACK AND END PROFILE
N.T.S.

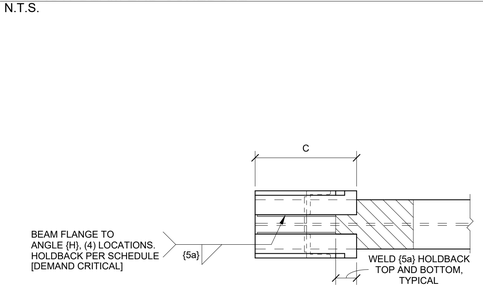


NOTE(S):
1. IF THE ANGLE SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER ROLLED ANGLE SECTION.
2. SUGGESTED ANGLE {H} SIZE PROVIDED IN SCHEDULE IS BASED ON COMMONLY AVAILABLE SHAPES PER AISC. IF THE ANGLE {H} SECTION WITH THE GIVEN DIMENSIONS CANNOT BE OBTAINED, THE PIECE SHALL BE FABRICATED BY TRIMMING ONE OR BOTH LEGS OF A LARGER AVAILABLE ANGLE SECTION.
3. ANY ANGLE OF THE REQUIRED THICKNESS THAT IS CAPABLE OF MEETING THE PROPER MATERIAL SPECIFICATIONS AND LEG DIMENSION REQUIREMENTS GIVEN IN THE SCHEDULE MAY BE USED FOR ANGLE {H}.
4. MITER CUT NEED NOT BE FLUSH WITH HORIZONTAL LEG. DIMENSION MITER CUT TO UNDERSIDE OF HORIZONTAL LEG SHALL NOT EXCEED 1/2 INCH.

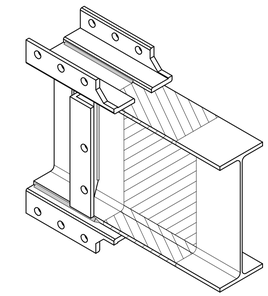
3 ANGLE {H} DETAIL
N.T.S.

ID	BEAM DESIGN (INCHES)																
	BEAM			ANGLE					WELD				BOLT				
				{H}					{5}		{5a}						
	SHAPE	GAP	VSE APPLICABILITY	SUGGESTED SIZE	C	K	HORIZONTAL LEG	VERTICAL LEG	SIZE	HOLD BACK	SIZE	HOLD BACK	DIAMETER	HORIZONTAL #	G	S	
A21	W21X62	1 1/2	No	L4X3X5/8	23 1/2	3 1/2	3	4	5/16	5 1/2	5/16	3 1/2	1 1/8	4	2 1/2	5	

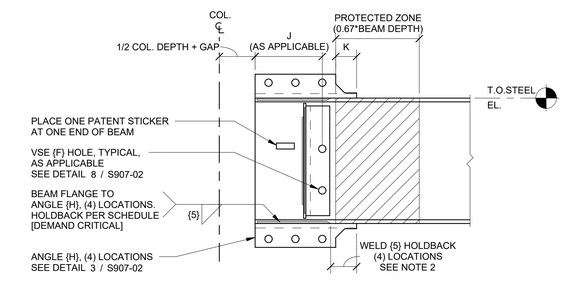
2 NARROW BEAM END SCHEDULE
N.T.S.



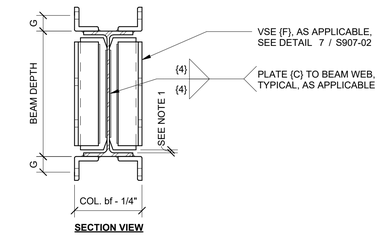
PLAN VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SECTION VIEW

NOTE(S):
1. DIMENSION BETWEEN PLATE {C} AND INSIDE FACE OF BEAM FLANGE SHALL NOT EXCEED 1/4 INCH, AND MAY VARY DEPENDING ON BEAM MILL TOLERANCES. PLATE {C} SHALL BE CENTERED ON THE DEPTH OF THE BEAM.
2. THIS HOLDBACK AND WELD END PROFILE ARE CRITICAL TO THE PERFORMANCE OF THE CONNECTION. SEE DETAIL 4 / S907-02

1 NARROW BEAM END DETAIL
N.T.S.

SMF BOLTED

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REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. PITTS No. 5692 Exp. 12-31-26 STRUCTURAL STATE OF CALIFORNIA

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SHEET TITLE
SIDEPLATE BEAM DETAILS, NARROW

SHEET NUMBER:
S907-02

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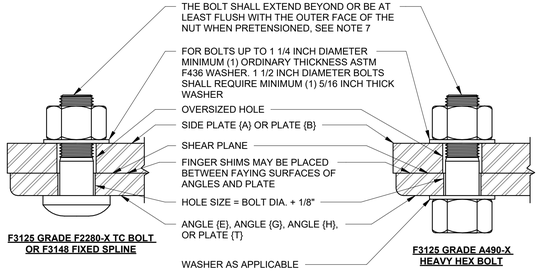
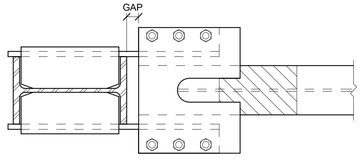


NOTE(S):
1. BOLTS SHALL BE INSTALLED AS SHOWN TO KEEP THREADS OUTSIDE OF SHEAR PLANE.
2. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS. FIRST TO A SNUG TIGHT CONDITION, AND THEN PRETENSIONED.
3. USE FINGER SHIMS FOR GAPS GREATER THAN 1/8 INCH UP TO 1/4 INCH. CONTACT SIDEPLATE SYSTEMS, INC. IF GAPS ARE GREATER THAN 1/4 INCH.
4. NUT SHALL BE ASTM A563.
5. THE BOLT/FASTENER ASSEMBLY SHALL BE COVERED IN A LIGHT PROTECTIVE OIL.
6. FOLLOW QUALITY CONTROL SECTION FOR EXPOSURE LIMITATION ON BOLTS/FASTENERS.
7. STEEL DETAILER TO COORDINATE BOLT LENGTHS WITH REQUIRED WASHERS AND POTENTIAL SHIMMING THICKNESS WITH STEEL FABRICATOR.
8. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS.
9. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF THE HOLE TO THE EDGE OF THE CONNECTED PART IS PERMITTED TO BE LESS THAN THE MINIMUM EDGE DISTANCE PRESCRIBED BY AISC TABLE J3.4 FOR EACH BOLT DIAMETER, BUT SHALL NOT BE LESS THAN ONE BOLT DIAMETER.
10. BOLT ORIENTATION IS PERMITTED TO BE FLIPPED IF THE FOLLOWING CONDITIONS ARE MET:
    A. IF A HEAVY HEX BOLT IS USED, AN ADDITIONAL WASHER ON THE OVERSIZED HOLE SIDE IS REQUIRED. VERIFY THREAD ARE EXCLUDED FROM THE SHEAR PLANE.
    B. IF A TC BOLT IS USED, NO ADDITIONAL WASHER IS REQUIRED. VERIFY THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
11. WHEN USING DIRECT TENSION INDICATORS (DTI) FOR PRETENSIONING. VERIFY IF ADDITIONAL WASHER IS REQUIRED TO ENSURE DTIs CAN WORK EFFECTIVELY WHEN PRETENSIONED.

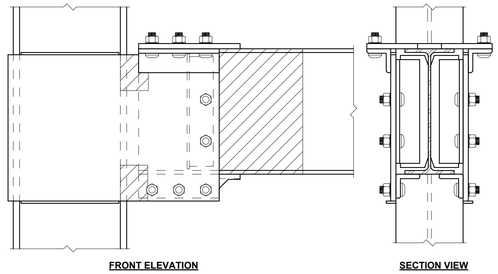
2 FIELD BOLTING DETAIL
N.T.S.

ID	ERECTION DESIGN (INCHES)			
	BEAM	BOLT		
	SHAPE	DIAMETER	HORIZONTAL #	TOTAL # PER BEAM END
A10, B10	W16X50	1 1/8	3	12
A20	W21X62	1 1/8	4	16

3 BEAM ERECTION SCHEDULE
N.T.S.



PLAN VIEW

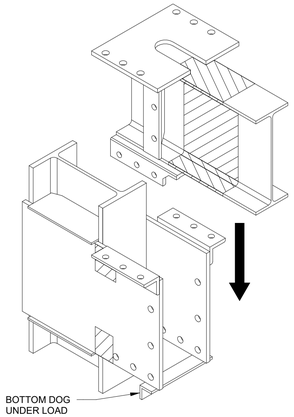


FRONT ELEVATION

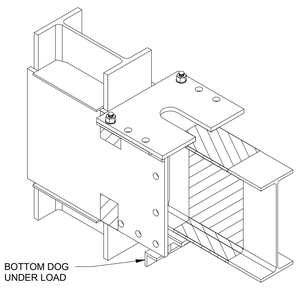
SECTION VIEW

TYPICAL SEQUENCE OF ERECTION:
1. LOWER THE BEAM INTO PLACE FROM ABOVE.
2. INSERT A FEW BOLTS TO SECURE ASSEMBLY.
3. **BOTTOM DOG SHALL BE REMOVED**. IT IS RECOMMENDED THAT IT BE REMOVED BY TORCH CUTTING A 'V' SECTION OUT OF ONE OF THE ANGLE LEGS TO ALLEVIATE THE LOAD AND THEN PROCEED TO REMOVE IT. **IT IS NOT RECOMMENDED TO USE A GRINDING WHEEL TO REMOVE THE WELDS WHILE THE DOG IS UNDER LOAD!**
4. BOLTS SHALL BE INSERTED INTO HOLES IN THE BEAM COVER PLATE {B} AND THE SIDE PLATES {A}.
5. SYSTEMATICALLY PRE-TENSION BOLTS PER RCSC SPECIFICATIONS.
6. THE WELD REMNANTS OF THE BOTTOM DOG MAY REMAIN IN PLACE AND DO NOT NEED TO BE GROUND SMOOTH.

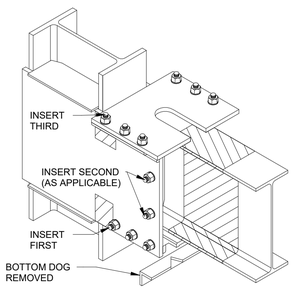
1 BEAM ERECTION DETAIL
N.T.S.



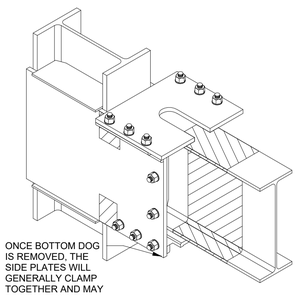
1. LOWER BEAM INTO PLACE



2. STUFF A FEW BOLTS TO SECURE ASSEMBLY



3. CAREFULLY REMOVE BOTTOM DOG AS IT IS UNDER LOAD. THEN INSERT ALL REMAINING BOLTS STARTING WITH THE BOTTOM ROW, THEN THE VERTICAL ROW, AND LAST THE TOP ROW. SNUG TIGHTEN ALL BOLTS.



4. SYSTEMATICALLY PRE-TENSION BOLTS PER SPECIFICATIONS, STARTING WITH THE TIGHTEST PLIES FIRST. (NOTE: COORDINATE LOT TESTING AND INSPECTIONS WITH THIRD PARTY INSPECTION TEAM AS APPROPRIATE)

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SHEET TITLE
SIDEPLATE FIELD ERECTION DETAILS (1 of 2)

SHEET NUMBER:
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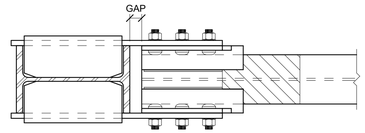
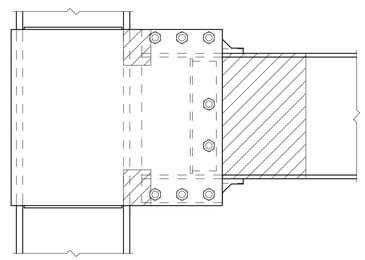
ID	ERECTION DESIGN (INCHES)			
	BEAM	BOLT		
	SHAPE	DIAMETER	HORIZONTAL #	TOTAL # PER BEAM END
A21	W21X62	1 1/8	4	16

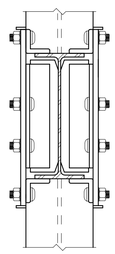
2 NARROW BEAM ERECTION SCHEDULE
N.T.S.



PLAN VIEW



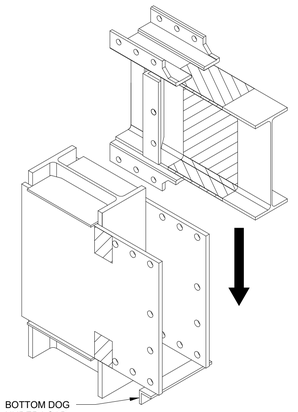
FRONT ELEVATION



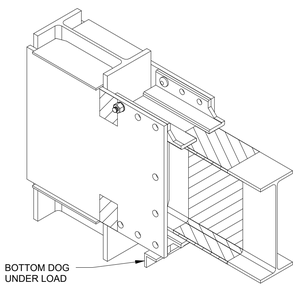
SECTION VIEW

TYPICAL SEQUENCE OF ERECTION:
1. LOWER THE BEAM INTO PLACE FROM ABOVE.
2. INSERT A FEW BOLTS TO SECURE ASSEMBLY.
3. **BOTTOM DOG SHALL BE REMOVED**. IT IS RECOMMENDED THAT IT BE REMOVED BY TORCH CUTTING A 'V' SECTION OUT OF ONE OF THE ANGLE LEGS TO ALLEVIATE THE LOAD AND THEN PROCEED TO REMOVE IT. **IT IS NOT RECOMMENDED TO USE A GRINDING WHEEL TO REMOVE THE WELDS WHILE THE DOG IS UNDER LOAD!**
4. BOLTS SHALL BE INSERTED INTO HOLES IN THE SIDE PLATES (A).
5. SYSTEMATICALLY PRE-TENSION BOLTS PER RCSC SPECIFICATIONS.
6. THE WELD REMNANTS OF THE BOTTOM DOG MAY REMAIN IN PLACE AND DO NOT NEED TO BE GROUND SMOOTH.

1 NARROW BEAM ERECTION DETAIL
N.T.S.



1. LOWER BEAM INTO PLACE



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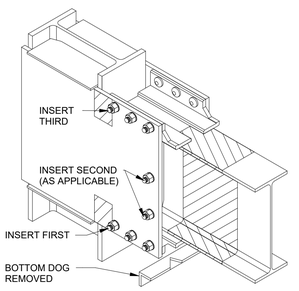

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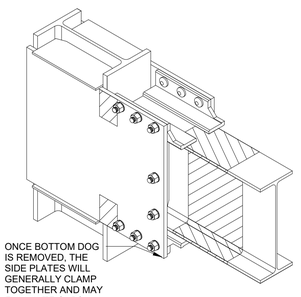

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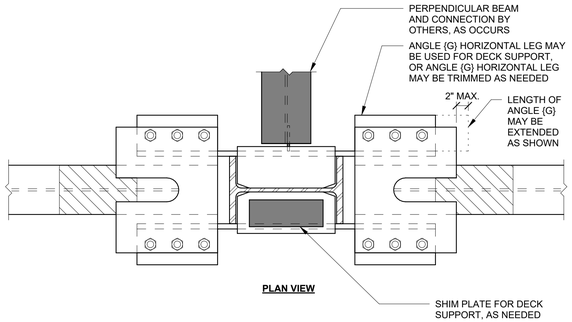
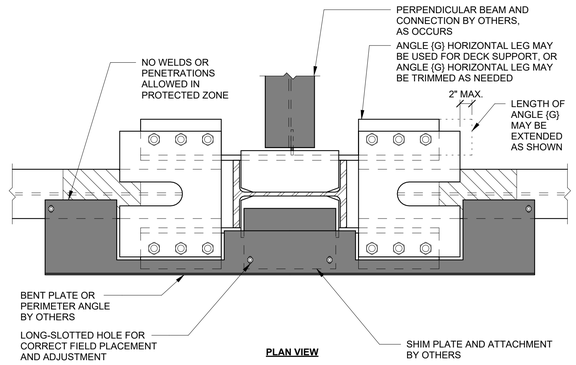


NOTE(S):
1. THE STEEL DETAILER SHOULD CONFIRM AND COORDINATE WITH THE GENERAL CONTRACTOR AND/OR STEEL FABRICATOR WHICH PREFERRED OPTION OR PROJECT SPECIFIC CRITERIA TO USE FOR THE DECK SUPPORT.

6 (OPTIONAL) ANGLE {G} HORIZONTAL LEG DECK SUPPORT DETAIL
N.T.S.



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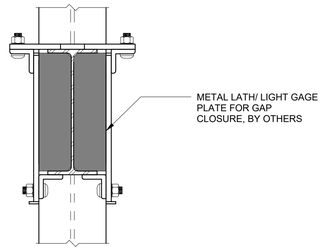
3 (OPTIONAL) ANGLE {G} HORIZONTAL LEG FOR SLAB EDGE SUPPORT DETAIL
N.T.S.



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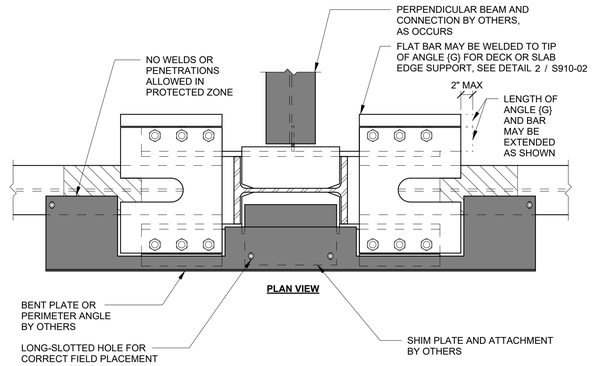
2. SEE GENERAL NOTES FIREPROOFING SECTION FOR MORE DETAILS.

8 (OPTIONAL) NO VSE BEAM GAP CLOSURE DETAIL
N.T.S.



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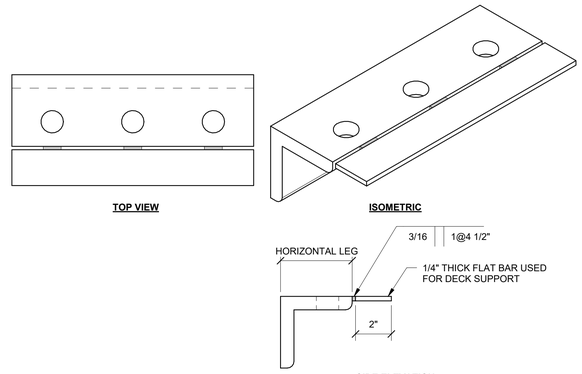
5 (OPTIONAL) WELDED FLAT BAR FOR SLAB EDGE SUPPORT DETAIL
N.T.S.



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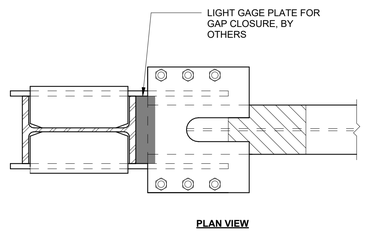
2 (OPTIONAL) WELDED FLAT BAR TO ANGLE {G} FOR DECK SUPPORT
N.T.S.



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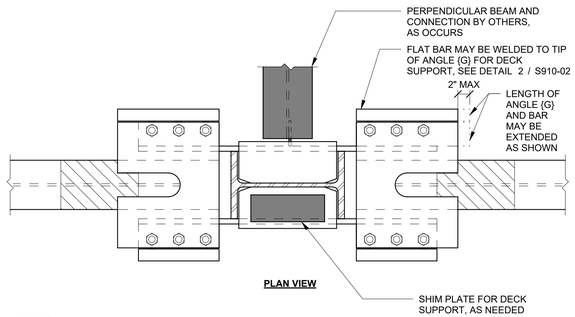
7 (OPTIONAL) GAP CLOSURE DETAIL
N.T.S.



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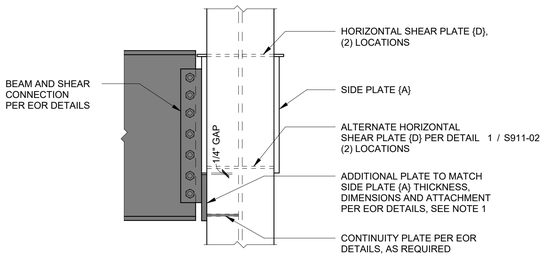
4 (OPTIONAL) WELDED FLAT BAR DECK SUPPORT DETAIL
N.T.S.



NOTE(S):
1. PLATE SHALL BE A572 GRADE 50. NO WELD TIE-IN ACROSS 1/4 INCH GAP.
2. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.
3. SEE SCHEDULE FOR INFORMATION NOT SHOWN.

1 DEEP SHEAR CONNECTION TO SIDEPLATE CONNECTION (AS APPLICABLE)
N.T.S.

SIDEPLATE® POWERED BY MiTek

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DATE: 01/08/2026

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RTM JOB NO.: 450.043

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REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. PITTS No. 5692 Exp. 12-31-26 STRUCTURAL STATE OF CALIFORNIA
10/09/2025

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.
INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
SIDEPLATE COORDINATION ITEMS (1 of 2)

SHEET NUMBER:
S910-02

INTELLECTUAL PROPERTY RIGHTS NOTICE
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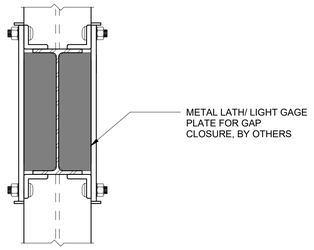

SECTION VIEW

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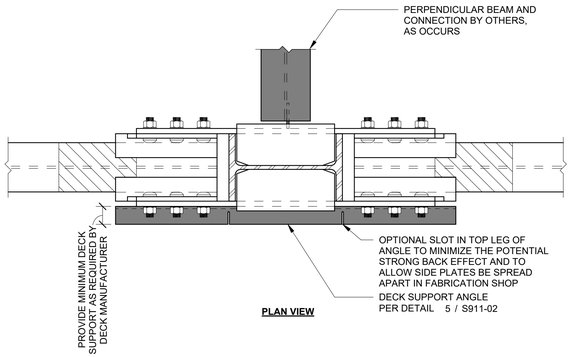
2. SEE GENERAL NOTES FIREPROOFING SECTION FOR MORE DETAILS.

6 (OPTIONAL) NO VSE BEAM GAP CLOSURE DETAIL NARROW
N.T.S.



PLAN VIEW

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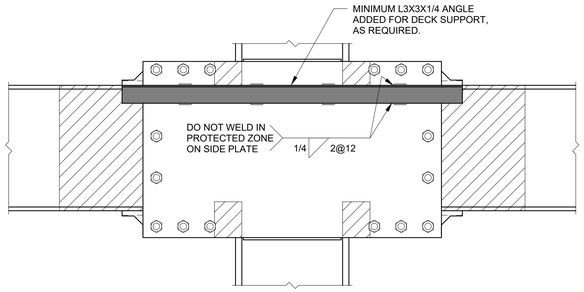
3 (OPTIONAL) NARROW CONFIGURATION DECK SUPPORT DETAIL
N.T.S.



FRONT ELEVATION

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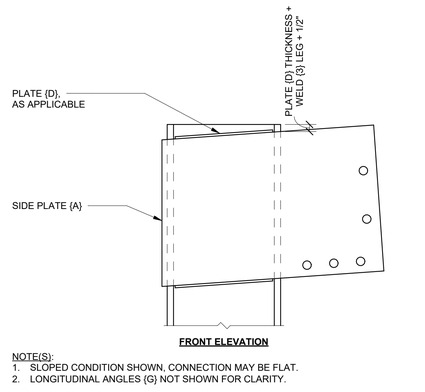
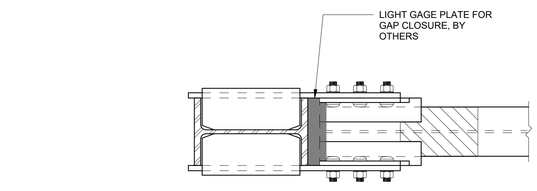
5 (OPTIONAL) DECK SUPPORT ANGLE DETAIL
N.T.S.



FRONT ELEVATION

NOTE(S):
1. SLOPED CONDITION SHOWN, CONNECTION MAY BE FLAT.
2. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.

2 DISCONTINUOUS COLUMN DETAIL
N.T.S.



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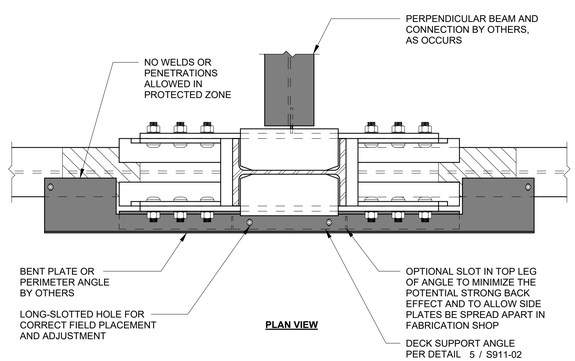
7 (OPTIONAL) GAP CLOSURE DETAIL NARROW
N.T.S.



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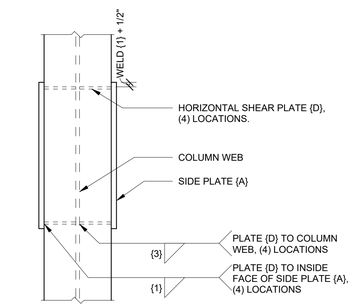
4 (OPTIONAL) NARROW CONFIGURATION SLAB EDGE DETAIL
N.T.S.



SIDE ELEVATION

NOTE(S):
1. LONGITUDINAL ANGLES {G} NOT SHOWN FOR CLARITY.
2. SEE SCHEDULE FOR INFORMATION NOT SHOWN.

1 PLATE {D} ALTERNATE DETAIL
N.T.S.

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IDENTIFICATION STAMP
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DATE: 01/08/2026

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PROJECT:
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INCREMENT 2

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

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SHEET TITLE
SIDEPLATE COORDINATION ITEMS (2 of 2)

SHEET NUMBER:
S911-02

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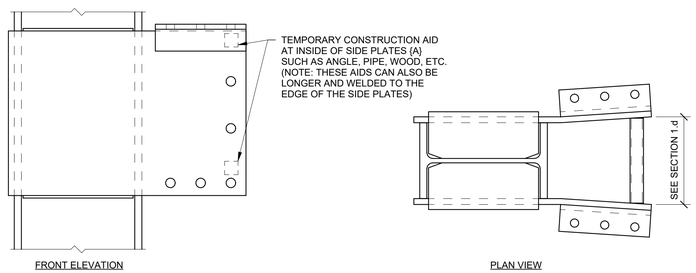
CONSTRUCTION GUIDELINES

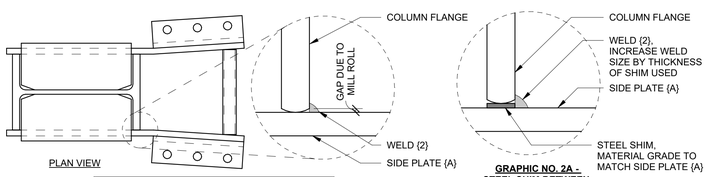
1. THE CONTRACTOR SHALL ASSUME FULL AND COMPLETE RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTING THE STEEL FRAME USING THE SIDEPLATE BOLTED SYSTEM. CONSTRUCTION MEANS AND METHODS SHALL BE COMPLIANT WITH THE CURRENT PROVISIONS OF AWS D1.1, AWS D1.8, THE AISC 360 CODE OF STANDARD PRACTICE, THE RCSC HIGH-STRENGTH BOLTING SPECIFICATIONS, AND THE CONSTRUCTION GUIDELINES PROVIDED HEREIN AND SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   a. DIMENSIONAL VERIFICATION AND CONTROL
   b. FILLET WELD END PROFILE AND HOLD BACK DISTANCES FROM EDGE OF PLATE, SEE GRAPHIC NO. 7 AND GRAPHIC NO. 8
   c. STEEL DETAILING AND ERECTION DRAWINGS
   d. FABRICATION AND ERECTION PROCEDURES (INCLUDING METHODS FOR CONTROLLING DISTORTION DUE TO WELD SHRINKAGE, AND FOR CONTROLLING COMBINED MILL, FABRICATION AND ERECTION TOLERANCES)
   e. WELDING PROCEDURES
   f. WELDING SEQUENCE OF FABRICATED AND ERECTED ELEMENTS
   g. QUALITY CONTROL MEASURES
   h. CONSTRUCTION AIDS SUCH AS ERECTION RIGGING AND SHORING
   i. PROPER BOLT HOLE ALIGNMENT
   j. PROPER PRETENSIONING OF BOLTS
2. THE SEQUENCE OF CONSTRUCTION OPTIONS PROVIDED BELOW IN THESE CONSTRUCTION GUIDELINES HAVE PROVEN TO BE SUCCESSFUL BY STEEL FABRICATORS AND ERECTORS TO COST EFFICIENTLY CONSTRUCT THE BOLTED SIDEPLATE CONNECTION SYSTEM. VARIATIONS TO THESE CONSTRUCTION SEQUENCE OPTIONS PROVIDED BELOW SHALL BE SUBMITTED FOR REVIEW AND DISPOSITION TO SIDEPLATE SYSTEMS, INC.
3. A PRE-DETAILING MEETING, PRE-FABRICATION MEETING, AND PRE-ERECTION MEETING WITH A SIDEPLATE SYSTEMS, INC REPRESENTATIVE ARE REQUIRED FOR ALL PROJECTS. THE MEETINGS ARE INTENDED TO SHARE BEST PRACTICES AND COMMON MISTAKES TO AVOID.
4. COLUMN/BEAM SEPARATION (GAP) CLOSURE
   a. PROVIDE A FOLDED STRIP OF LIGHT GAGE METAL, OR SIMILAR, SECURED TO STEEL SURFACES BY DUCT TAPE OR A TACK WELD LOCATED AS CLOSE AS PRACTICABLE TO THE MID SECTION OF THE BEAM FLANGES OR TOP COVER PLATE {B} ACROSS THE PHYSICAL COLUMN/BEAM SEPARATION (GAP) BETWEEN THE BEAM FLANGES OR TOP COVER PLATE {B} AND THE FACE OF COLUMN FLANGE. THIS SHALL PREVENT CONCRETE FILL FROM ENTERING THROUGH THE SEPARATION (GAP).
   b. IN NO CASE SHALL THE FOLDED STRIP OF LIGHT GAGE MATERIAL BE WELDED TO THE EDGE OF SIDE PLATE {A}, OR TO THE FACE OF COLUMN FLANGE TO ACHIEVE CLOSURE OF THE PHYSICAL COLUMN/BEAM SEPARATIONS.
5. WHEN NO VSE OPTION IS SPECIFIED, PROVIDE A CLOSURE PLATE, AS NEEDED, FOR SFRM MATERIAL TO MORE EASILY ADHERE TO. ATTACH CLOSURE PLATE TO THE INSIDE OR OUTSIDE FACE OF THE SIDE PLATE {A} WITHIN THE MIDDLE HALF OF THE SIDE PLATE {A} HEIGHT. DO NOT ATTACH CLOSURE PLATE TO THE BEAM FLANGES OR WEB.

SHOP FABRICATION OF THE SIDEPLATE BOLTED SYSTEM

1. COLUMN TREE ASSEMBLY
   a. TACK SIDE PLATES {A} AND HORIZONTAL SHEAR PLATES {D} TO THE COLUMN.
      - QC INSPECTION SHALL PROVIDE VERIFICATION THAT ACTUAL COLUMN FLANGE WIDTH IS AT LEAST NOMINAL COLUMN FLANGE WIDTH WHERE THE SIDE PLATES {A} ARE TO BE INSTALLED. IN THE UNLIKELY EVENT ACTUAL COLUMN FLANGE WIDTH IS LESS THAN NOMINAL, BUT WITHIN AISC STANDARD MILL TOLERANCES (-3/16 INCH), OR THERE IS A FLANGE OFFSET CREATING A CONDITION WHERE THE SIDE PLATES {A} ARE NOT PARALLEL TO ONE ANOTHER, THE FOLLOWING MAY BE APPLIED:
        - PLACE A STRUCTURAL GRADE SHIM (A572 GRADE 50KSI) BETWEEN THE SIDE PLATE {A} AND THE COLUMN FLANGE TO OFFSET THE DEFICIENT DISTANCE. THE CORRESPONDING WELD {2} SHALL THEN BE INCREASED BY THE SHIM THICKNESS.
      - QC INSPECTION SHALL PROVIDE VERIFICATION THAT THE CENTERLINE OF THE BOTTOM ROW OF THE LONGITUDINAL BOLT HOLES ARE SET TO THEIR CORRECT ELEVATION. THIS CENTERLINE MARK WILL BECOME THE WORKING POINT FOR THE CORRECT PLACEMENT OF ANGLE {G}, AS REQUIRED, AND IS ULTIMATELY USED TO SET THE ELEVATION FOR THE TOP OF STEEL IN THE SYSTEM.
   b. WELD HORIZONTAL SHEAR PLATES {D} TO COLUMN WEB USING FILLET WELDS {3} ON OUTER FACE OF PLATE. WHEN WELD {3} OCCURS ON THE COLUMN FLANGES, A WELD TIE-IN OF FILLET WELDS {3} SHALL NOT BE ALLOWED ACROSS THE CLIPPED CORNER OF HORIZONTAL SHEAR PLATE {D} AT THE K-LINE AREA. SEE **PREPARATION** NOTE 4.a IN SIDEPLATE GENERAL NOTES.
   c. WELD HORIZONTAL SHEAR PLATES {D} TO SIDE PLATE {A} USING FILLET WELD {1}.
   d. TEMPORARILY MAINTAIN A SLIGHT (E.G. 1/2 INCH +/-) FLARED-OUT SEPARATION OF SIDE PLATES {A} (CARE SHALL BE TAKEN TO NOT OVER SPREAD IN THIS CONDITION, AS THAT MAY BREAK THE TACKS HOLDING THE SIDE PLATE {A} IN PLACE), IN ANTICIPATION OF WELD {2} SHRINKAGE EFFECTS, PLACE SUITABLE CONSTRUCTION AIDS (SUCH AS ANGLE, PIPES OR WOOD BLOCK) AT THE TOP AND BOTTOM OF SIDE PLATE {A}. AIDS MAY BE CUT TO FIT AND BEAR ON THE INSIDE FACE OF SIDE PLATES {A} OR CUT LONG AND TACKED TO THE EDGES OF SIDE PLATES {A}. SUCH CONSTRUCTION AIDS ACT AS SPACERS DURING THE WELDING AND SUBSEQUENT COOL DOWN OF FILLET WELDS {2}. SEE GRAPHIC NO. 1.
   e. WELD INSIDE FACE OF SIDE PLATES {A} TO THE FLANGE TIPS OF COLUMN USING FILLET WELDS {2}. REFER TO GRAPHIC NO. 2 FOR CONDITIONS WITH NON-SQUARE COLUMN FLANGE TOES DUE TO MILL ROLLING.
      - SHIMS ARE PERMITTED BETWEEN SIDE PLATE {A} AND COLUMN FLANGE IN CONDITIONS DUE TO MILL ROLLING.
      - THE MATERIAL GRADE OF THE SHIM SHALL MATCH THE GRADE USED ON THE SIDE PLATE {A}.
      - FILLET WELD SIZE SHALL BE INCREASED BY THE THICKNESS OF THE SHIM USED.
      - REFER TO GRAPHIC NO. 2A FOR MORE DETAIL.
   f. COLUMN FLANGE TRIMMING IS PERMITTED FOR CONDITIONS DUE TO MILL ROLLING.
      - TRIMMING MAY BE PERFORMED VIA GRINDING TO SMOOTH OUT ROUGH TRANSITIONS.
      - TRIMMING SHALL BE DONE FOR THE FULL LENGTH OF THE SIDE PLATE {A} DEPTH (DIMENSION B) PLUS 12 INCHES ABOVE AND BELOW THE TOP AND BOTTOM EDGES OF SIDE PLATE {A}.
      - IF REPAIR WELDING IS REQUIRED TO FIX GAPS AND GOUGES LARGER THAN 3/16 INCH, IT SHALL BE DONE FOLLOWING AWS PROTOCOLS AND WITH AN APPROVED WPS.
      - THE FINAL SURFACE SHALL HAVE A MINIMUM 500 MICRO-INCH ANSI WORKMANLIKE FINISH.
      - ANY AND ALL TRANSITIONS SHALL BE 10:1.
      - THE FINAL FLANGE WIDTH DIMENSION SHALL BE, AS A MINIMUM, THE NOMINAL DESIGN DIMENSION.
   g. AS REQUIRED, WELD ANGLES {G} TO THE TOP EDGE AND FACE OF SIDE PLATE {A} USING FILLET WELDS {8}. CARE SHALL BE GIVEN TO THE PLACEMENT OF ANGLE {G} AT THE CORRECT ELEVATION RELATIVE TO THE 'WORKING POINT' OF THE CENTERLINE OF THE BOTTOM LONGITUDINAL BOLT HOLES IN SIDE PLATE {A}.
   h. AFTER COOL DOWN OF COMPLETED FILLET WELDS {2}, REMOVE TOP CONSTRUCTION AID. VERIFY MINIMUM CLEAR SPREAD DIMENSION (ACTUAL COLUMN FLANGE WIDTH) BETWEEN SIDE PLATES {A}, SEE GRAPHIC NO. 3. THIS IS THE REQUIRED CLEARANCE FOR INSERTING THE BEAM ASSEMBLY.
      - IF CLEARANCE VERIFICATION IS SUFFICIENT (I.E. NOT LESS THAN THE ACTUAL COLUMN FLANGE WIDTH AND NOT EXCEEDING THE MAXIMUM SPREAD DIMENSION Y), A SUITABLE ERECTION AID (AKA BOTTOM 'DOG') SHALL BE WELDED TO THE BOTTOM EDGE OF THE SIDE PLATES {A}. IT SHALL BE SUFFICIENTLY STRONG TO REMAIN IN PLACE DURING TRANSPORTATION AND ERECTION OF THE BEAM. THIS ERECTION AID WILL BE UNDER LOAD AND CARE SHALL BE TAKEN WHEN REMOVING.
      - IF CLEARANCE VERIFICATION IS NOT SUFFICIENT (I.E. LESS THAN THE NOMINAL COLUMN FLANGE WIDTH), FLEX SIDE PLATES {A} BY JACKING THEM APART TO A DIMENSION GREATER THAN THE WIDTH OF COLUMN FLANGE. MAXIMUM SEPARATION SHALL NOT EXCEED WIDTH OF COLUMN FLANGE PLUS SCHEDULED SPREAD DIMENSION Y. ONCE NECESSARY CLEARANCE HAS BEEN ESTABLISHED, A SUITABLE ERECTION AID (AKA BOTTOM 'DOG') SHALL THEN BE WELDED TO BOTTOM EDGE OF SIDE PLATES {A}. IT SHALL BE SUFFICIENTLY STRONG TO REMAIN IN PLACE DURING TRANSPORTATION AND ERECTION OF BEAM ASSEMBLY. THIS ERECTION AID WILL BE UNDER LOAD AND CARE SHALL BE TAKEN WHEN REMOVING.
      - ALTERNATELY, HEAT STRAIGHTENING OF THE PLATES MAY BE USED TO MEET THE MINIMUM CLEAR DIMENSION SPREAD WITH THE FOLLOWING CRITERIA:
        - USING A 3/4 INCH ROSE BUD HEATING TIP, HEAT THE OUTSIDE FACE OF THE SIDE PLATE ADJUNCT TO THE FREE UNSUPPORTED SIDE OF THE COLUMN FLANGE FOR MAJORITY OF THE FULL DIMENSION B DEPTH (HOLD HEATING BACK FROM TOP AND BOTTOM ENDS OF SIDE PLATE {A} BY 2 INCHES). THE WIDTH OR HEAT ZONE SHALL BE 3/4 INCH TO 1 1/4 INCH. TRAVEL SPEED OF HEATING SHALL BE 2 INCHES PER MINUTE AND MAXIMUM TEMPERATURE INPUT SHALL NOT BE MORE THAN 950 DEGREES.



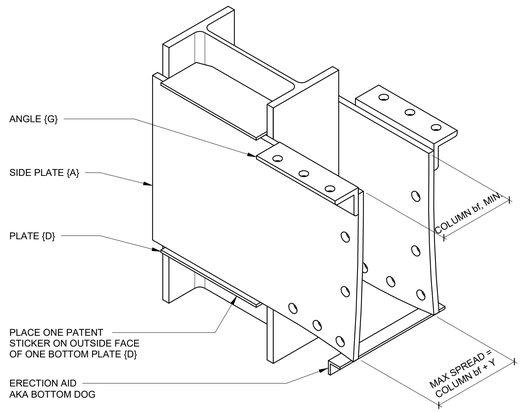
GRAPHIC NO. 1 - COLUMN TREE ASSEMBLY PREPARATION FOR WELD {2}



- IF MILL ROLL GAP ≤ 1/16", PERFORM FILLET WELD {2} AS SCHEDULED.
- IF MILL ROLL GAP > 1/16", RUN AN INITIAL PASS TO FILL GAP. THEN PERFORM FILLET WELD {2} AS SCHEDULED.

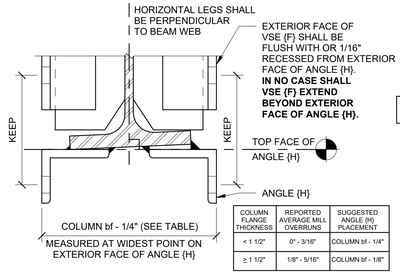
GRAPHIC NO. 2 - MILL ROLL INDUCED GAP

GRAPHIC NO. 2A - STEEL SHIM BETWEEN COLUMN FLANGE AND SIDE PLATE {A}



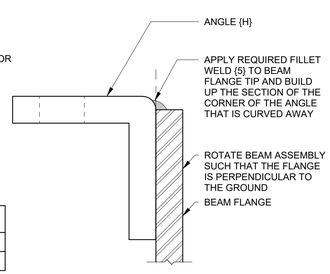
GRAPHIC NO. 3 - COMPLETED SIDEPLATE BOLTED COLUMN TREE ASSEMBLY

2. BEAM ASSEMBLY
   a. THE COVER PLATE {B} AND LONGITUDINAL ANGLES {H} SHALL BE PLACED AS PERPENDICULAR AS POSSIBLE TO THE WEB OF BEAM, REGARDLESS OF POSSIBLE FLANGE TILT (AS ROLLED BY THE MILL). SEE GRAPHIC NO. 4.
   b. PLACEMENT OF ANGLES {H} SHALL BE SUCH THAT THEIR BOLT HOLES ARE ALIGNED WITH EACH OTHER AS MUCH AS POSSIBLE IN BOTH THEIR VERTICAL AND HORIZONTAL POSITIONS, ALLOWING THE CENTERLINE OF THE LONGITUDINAL ROWS TO BE THE 'WORKING POINT' FOR THE PLACEMENT OF VSE {F}. THIS WILL PROVIDE ASSURANCE THAT THE LONGITUDINAL BOLT HOLES IN THE BEAM ASSEMBLY WILL LINE UP WITH THE LONGITUDINAL BOLT HOLTS IN THE COLUMN ASSEMBLY. ANY OVER RUN IN THE AS BUILT DIMENSIONS WILL CREATE A GAP BETWEEN ANGLES {G} AND COVER PLATE {B}. SHIM AS REQUIRED. ANY UNDER RUN IN THE AS BUILT DIMENSIONS SHOULD BE ACCOMMODATED BY THE OVERSIZED BOLT HOLE TOLERANCES.
   c. IN THE EVENT THE RADIUS OF THE ANGLE IS LARGER THAN THE EDGE DISTANCE REQUIRED TO PLACE FILLET WELD {5} FROM THE ANGLE {H} TO THE BEAM FLANGE TIPS, ROTATE ASSEMBLY ON ITS SIDE SO THAT THE WEB IS PARALLEL TO THE GROUND. IN THIS POSITION THE RADIUS OF THE ANGLE CAN BE BUILT UP. SEE GRAPHIC NO. 5.
   d. NOTE THAT IN SOME CONDITIONS ANGLES MAY NOT BE 90 DEGREES. CARE SHALL BE GIVEN TO MEASURE THE SUGGESTED WIDTH FROM THE MOST EXTREME POINT ON THE EXTERIOR FACE OF ANGLE {H} (WHICH MAY OCCUR AT THE TOE OF THE ANGLE VERSES ITS APEX).
   e. THE ENTIRE EXTERIOR FACE OF THE OUTSTANDING LEG OF ANGLE {H} SHALL BE PLACED PARALLEL TO THE WEB OF THE BEAM AS MUCH AS PRACTICABLE.
   f. WELD COVER PLATES {B} AND ANGLES {H} TO BEAM FLANGE USING FILLET WELD {5} AND {5a}. SEE GRAPHIC NO. 8.
   g. WELD VSE {F} TO THE BEAM WEB, AS REQUIRED. SEE GRAPHIC NO. 8. IT IS RECOMMENDED THAT THE VSE {F} BE WELDED LAST AS A DISTORTION CONTROL METHOD DUE TO THE POTENTIAL WARPING EFFECTS OF WELD {5}. THE EXTERIOR FACE OF THE VSE {F} SHALL EITHER BE FLUSH WITH THE EXTERIOR FACE OF ANGLE {H}, OR SLIGHTLY RECESSED TOWARDS THE BEAM WEB UP TO 1/16 INCH FROM THE EXTERIOR FACE OF ANGLE {H}, SEE GRAPHIC NO. 4. THE VERTICAL PLACEMENT OF THE VSE {F} SHALL BE SET BY THE KEEP DIMENSION FROM ITS BOTTOM BOLT HOLE TO THE CENTERLINE OF THE BOTTOM LONGITUDINAL ROW OF BOLT HOLES IN ANGLES {H} (I.E. THE 'WORKING POINT' OF THE BEAM). THIS WILL VERIFY PROPER ALIGNMENT OF THE BOLT HOLES IN THE COLUMN ASSEMBLY WITH THOSE IN THE BEAM ASSEMBLY, IRRESPECTIVE OF MILL TOLERANCES.
   h. TACK WELDING IN THE BEAM PROTECTED ZONE SHALL NOT BE PERMITTED. IF THIS SHOULD OCCUR, IT SHALL BE REPAIRED BY FOLLOWING AWS PROTOCOLS.

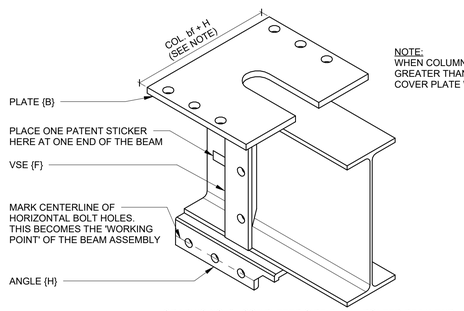


COLUMN FLANGE THICKNESS	REPORTED AVERAGE MILL OVERRUNS	SUGGESTED ANGLE {H} PLACEMENT
< 1 1/2"	0" - 3/16"	COLUMN bf - 1/4"
≥ 1 1/2"	1/8" - 5/16"	COLUMN bf - 1/8"

GRAPHIC NO. 4 - ANGLE {H} PLACEMENT



GRAPHIC NO. 5 - ROTATE BEAM ASSEMBLY TO FACILITATE WELD {5} MATERIAL AT MINIMAL EDGE DISTANCE



NOTE:
WHEN COLUMN FLANGE THICKNESS IS GREATER THAN 1 1/2 INCHES, INCREASE COVER PLATE WIDTH BY 1/8 INCH.

GRAPHIC NO. 6 - COMPLETED SIDE PLATE BOLTED BEAM END

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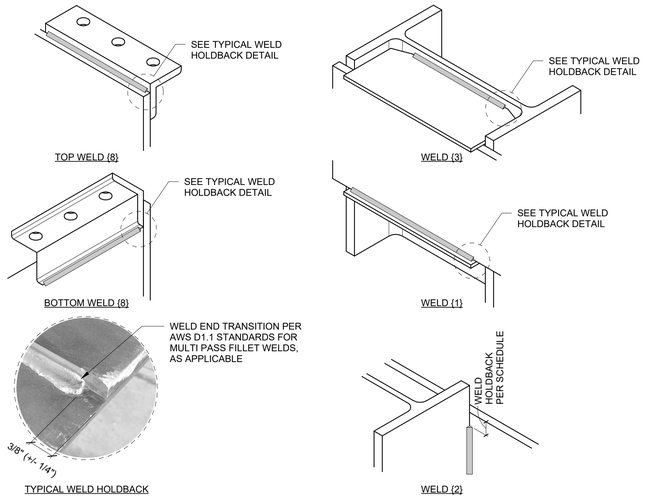
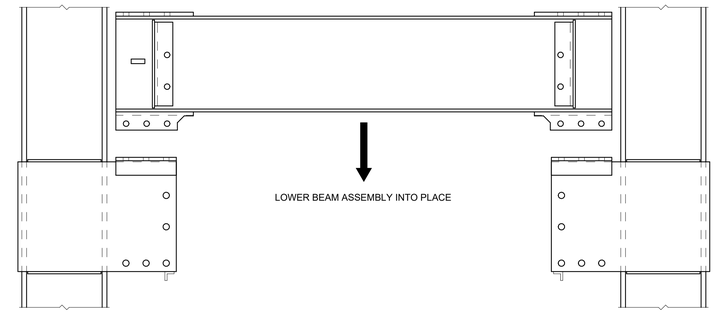
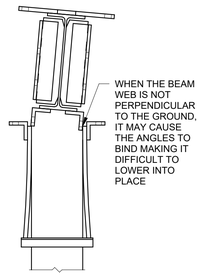


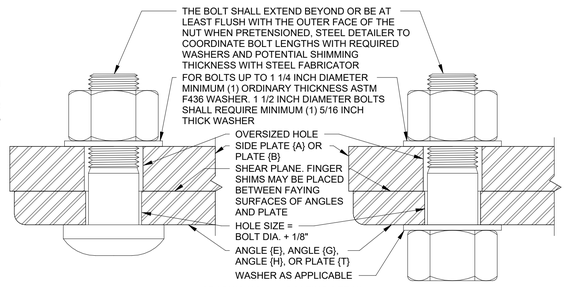
GRAPHIC NO. 7 - COLUMN ASSEMBLY WELD END PROFILES AND HOLDBACKS



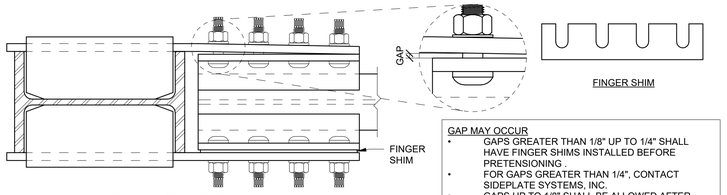
GRAPHIC NO. 9 - FIELD ERECTION OF SIDEPLATE BEAM ASSEMBLY



GRAPHIC NO. 10 - INCORRECTLY RACKED BEAM

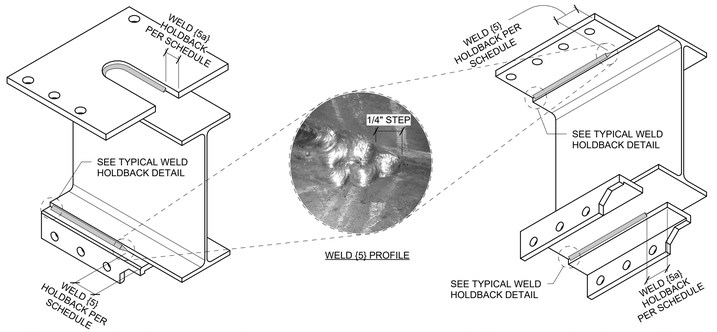


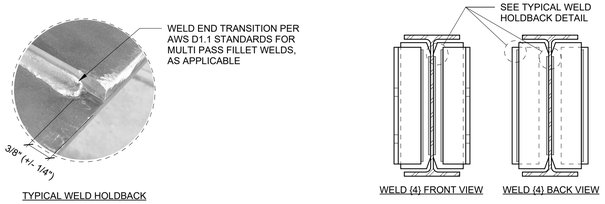
GRAPHIC NO. 11 - BOLTING DETAIL



GAP MAY OCCUR
- GAPS GREATER THAN 1/8" UP TO 1/4" SHALL HAVE FINGER SHIMS INSTALLED BEFORE PRETENSIONING
- FOR GAPS GREATER THAN 1/4", CONTACT SIDEPLATE SYSTEMS, INC.
- GAPS UP TO 1/8" SHALL BE ALLOWED AFTER BOLTS HAVE BEEN PRETENSIONED

GRAPHIC NO. 12 - CONDITION PRIOR TO TIGHTENING BOLTS



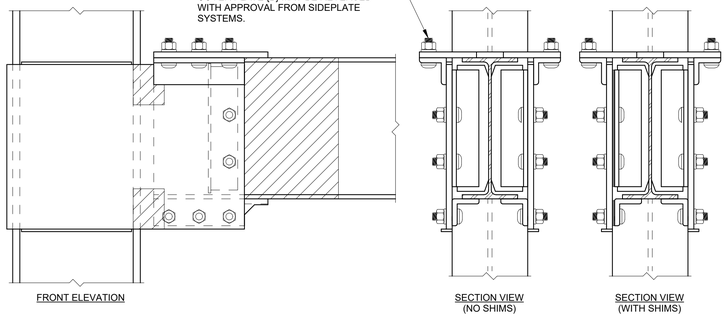


GRAPHIC NO. 8 - BEAM ASSEMBLY WELD END PROFILES AND HOLDBACKS

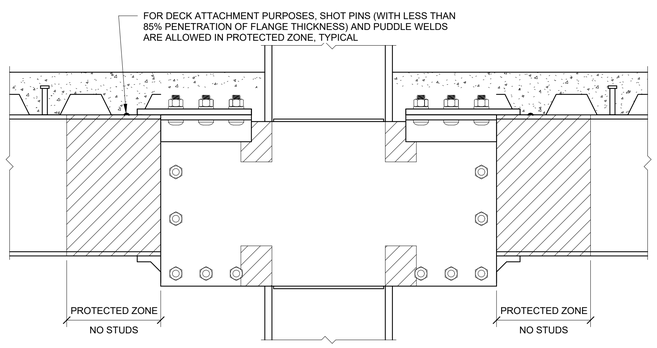
3. THE FOLLOWING FABRICATION AND SEPARATION MEASURES ARE IMPLEMENTED AND MAINTAINED THROUGH DELIVERY TO THE FIELD IN ORDER TO FACILITATE THE LOWERING INTO PLACE OF THE BEAM ASSEMBLY BETWEEN SIDE PLATES {A} OF OPPOSING COLUMN ASSEMBLIES.
   a. MAINTAIN, AS A MINIMUM, THE ACTUAL COLUMN FLANGE WIDTH ANYWHERE IN BETWEEN THE INTERIOR FACES OF SIDES PLATES {A} FROM TOP TO BOTTOM, TO ENSURE SUFFICIENT RATTLE SPACE UPON LOWERING THE BEAM ASSEMBLY INTO PLACE.
   b. THE DETAILED DISTANCE FROM EXTERIOR FACES OF ANGLES {H} ON THE BEAM ASSEMBLY SHALL BE CORRESPONDINGLY DIMENSIONED PER THE TABLE IN GRAPHIC NO. 4. THIS REDUCTION SHALL BE BASED ON THE FABRICATOR'S EXPERIENCE WITH THE TYPICAL MILL OVERRUNS IN THE COLUMN FLANGE WIDTH FOR THE COLUMN SECTIONS BEING USED. THE PROPER DETAILED DIMENSIONING OF THESE ANGLES {H} IS TO FACILITATE ERECTION CLEARANCE DURING THE LOWERING OF THE BEAM ASSEMBLY INTO PLACE.
      - IT IS IMPORTANT TO MAINTAIN SUFFICIENT EDGE DISTANCE BETWEEN THE LONGITUDINAL FACE OF THE BOTTOM ANGLES {H} WITH RESPECT TO ITS APEX AND RADIUS AND THE CORRESPONDING FLANGE TIP OF THE BEAM FOR PLACEMENT OF WELD {5}, SEE GRAPHIC NO. 5.

FIELD ERECTION OF SIDEPLATE BOLTED SYSTEM

1. LOWER THE BEAM ASSEMBLY INTO OPPOSING COLUMN ASSEMBLIES. SEE GRAPHIC NO. 9
   a. RACK BEAM SUCH THAT WEB IS PERPENDICULAR TO THE GROUND, FACILITATING MAXIMUM TOLERANCE WITHOUT THE BEAM BEING TILTED AS IT IS LOWERED DOWN BETWEEN THE SIDE PLATES {A}, SEE GRAPHIC NO. 10.
   b. IF THE OPPOSING COLUMNS ARE SLIGHTLY SKEWED IN RELATION TO ONE ANOTHER, MAKING IT DIFFICULT TO LOWER THE BEAM DOWN BETWEEN THEM SIMULTANEOUSLY, THE BEAM ASSEMBLY CAN BE TILTED AND PLACED FIRST ON ONE COLUMN (LIKELY THE ONE WITH THE GREATEST TWIST), THEN A CHOKER ON THE OPPOSITE END OF THE BEAM CAN BE USED TO PULL IT OVER SO THAT IT IS IN ALIGNMENT ALLOWING THE FREE END OF THE BEAM TO BE DROPPED DOWN INTO PLACE. **IN NO CASE SHALL THE BEAM BE OVERDRAWN OR TWISTED SUCH THAT THE NON-PARALLEL COLUMNS' ERECTION AIDS FAIL.**
2. CAREFULLY REMOVE BOTTOM 'DOG' WHICH IS UNDER LOAD. IT IS RECOMMENDED THAT IT BE REMOVED BY TORCH CUTTING A 'V' SECTION OUT OF ONE OF THE ANGLE LEGS TO ALLEVIATE THE LOAD AND THEN PROCEED TO REMOVE IT. **IT IS NOT RECOMMENDED TO USE A GRINDING WHEEL TO REMOVE THE WELDS WHILE THE DOG IS UNDER LOAD!** BOTTOM 'DOG' ATTACHMENT WELD MAY REMAIN AND IS NOT NECESSARY TO BE GROUND FLUSH. BOTTOM DOGS SHALL BE REMOVED PRIOR TO PRETENSIONING SIDEPLATE BOLTS.
3. INSTALL BOLTS WHICH SERVE AS CLAMPING DEVICES TO 1) PULL SIDE PLATES {A} IN AS CLOSE AS PRACTICABLE TO THE ANGLES {H} OF THE BEAM ASSEMBLY AND 2) PULL ANGLES {G} ON COLUMN TREE ASSEMBLY AS CLOSE AS PRACTICABLE TO COVER PLATE {B}. BOLTS SHALL BE SYSTEMATICALLY INSTALLED AS OUTLINED IN THE BOLTING SPECIFICATIONS, FIRST TO A SNUG TIGHT CONDITION AND THEN PRETENSIONED. PRIOR TO PRETENSIONING, THE DISTANCE BETWEEN FAYING SURFACES SHALL BE MEASURED. IF DISTANCE EQUALS 1/8 INCH OR LESS, NO FURTHER ACTION IS REQUIRED PRIOR TO PRETENSIONING. IF DISTANCE IS GREATER THAN 1/8 INCH UP TO 1/4 INCH, A SINGLE-PLY FINGER SHIM SHALL BE INSTALLED BETWEEN FAYING SURFACES PRIOR TO PRETENSIONING. FOR GAPS GREATER THAN 1/4 INCH, CONTACT SIDEPLATE FOR REMEDIAL MEASURES. WASHER IS REQUIRED UNDER THE NUT (AND IN SOME CASES UNDER THE HEAD OF HEAVY HEX). BOLTS SHALL BE INSTALLED AS SHOWN IN GRAPHIC NO. 11.
4. BOLT IN FIELD AS SHOWN IN GRAPHIC NO. 12 AND GRAPHIC NO. 13 TO COMPLETE ASSEMBLY.



GRAPHIC NO. 13 - COMPLETED SIDEPLATE BOLTED CONNECTION



GRAPHIC NO. 14 - STUDS AND PUDDLE WELDS AT BEAM PROTECTED ZONE

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ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
B	BOILER
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
C	CLOSED, AIR COMPRESSOR
CAP	CAPACITY
CC	COOLING COIL
CEG	CEILING EXHAUST GRILLE
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONN	CONNECTION
CONC	CONCRETE
CRG	CEILING RETURN GRILLE
CS	CURRENT SWITCH
CONC	CONCRETE
CSD	CEILING SUPPLY DIFFUSE
CONC	CONCRETE
DB	DECIBELS
DDCP	DIRECT DIGITAL CONTROL PANEL
DIAM	DIAMETER
DICA	DRILLED-IN CONCRETE ANCHOR
DIL	DYNAMIC INSERTION LOSS (DB)
DL	DOOR LOUVERS
DN	DOWN
DWG	DRAWING
∅	DIAMETER, PHASE
(E)	EXISTING
EA	EACH
EAD	EXHAUST AIR DUCT
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF(%)	EFFICIENCY (PERCENT)
EL	ELEVATION
ELEC	ELECTRICAL
ELECT	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE (INWG)
ET	EXPANSION TANK
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EA	EXHAUST AIR
F	FILTER
(F)	FUTURE
°F	FAHRENHEIT IN DEGREES
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER, FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRE	FIRE RATED ENCLOSURE
FT	FEET
FTWG	FEET OF WATER, GAUGE PRESSURE
FT²	SQUARE FEET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
GV	GATE VALVE
HC	HEATING COIL
HP	HORSEPOWER, HEAT PUMP
HTR	HEATER
HW	HOT WATER
ID	INSIDE DIAMETER
IFS	IN FURRED SPACE
IFW	IN FURRED WALL
IN	INCH
INWG	INCHS OF WATER, GAUGE
KW	KILOWATT
LBS	POUNDS
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LG	LENGTH
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
(N)	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED, NOISE CRITERIA
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPER	OPERATING
OV	OUTLET VELOCITY
P	PUMP
PD	PRESS. DROP
PH	HEATING HOT WATER PUMP
PBLG	PLUMBING
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RC	ROOF CAP
RF	RETURN FAN
RPM	REVOLUTIONS PER MINUTE
REQ'D	REQUIRED
SA	SUPPLY AIR
SAD	SUPPLY AIR DAMPER
SC	SENSIBLE COOLING (MBH)
SF	SUPPLY FAN
SM	SHEET METAL
SP	STATIC PRESSURE
SQ	SQUARE
ST	SOUND TRAP
TC	TOTAL COOLING CAPACITY (MBH)
TCP	TEMPERATURE CONTROL PANEL
TEMP	TEMPERATURE
TP	TOTAL PRESSURE
TYP	TYPICAL
UCD	UNDERCUT DOOR
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
WC	WALL CAP
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP (FTWG)
WRR	WALL RETURN REGISTER
WSD	WALL SUPPLY DIFFUSER
WT	WEIGHT

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS, INCLUDING JURISDICITION REACH CODES, 2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA PLUMBING CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA ENERGY CODE. WHERE DIFFERENCES BETWEEN CODES EXIST, MORE RESTRICTIVE CODE TAKES PRECEDENT. IF CONTRACTOR NOTICES DRAWINGS CONFLICT WITH CURRENT CODE, THEY SHALL NOTIFY THE ENGINEER IN WRITING.
2. PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE NECESSARY MEASUREMENTS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. REVIEW ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS TO GET FAMILIAR WITH ENTIRE PROJECT SCOPE. CONTRACTOR SHALL NOTIFY ARCHITECT & ENGINEER WITH ANY DISCREPANCY WITHIN DRAWING SETS.
3. CONTRACT DRAWINGS ARE DIAGRAMMATIC. ACTUAL CONDITIONS MAY VARY AND MUST BE FIELD VERIFIED PRIOR TO BID, FABRICATION, AND CONSTRUCTION.
4. ALL ROOF WORK SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR, AND SHALL COMPLY WITH HIS REQUIREMENTS TO PROTECT THE ROOFING WARRANTY.
5. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT & DESIGNER'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA.
6. FLEXIBLE DUCTWORK SHALL BE LIMITTED TO 5'0" FROM DIFFUSER / GRILLE PER CMC (EXCEPT RESIDENTIAL OCCUPANCIES) AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER CMC 603.4.1. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE. PRE-INSULATED FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE OR APPROVED EQUAL MEETING UL 181 AND NFPA 90A-90B APPROVED. FLEXIBLE DUCTWORK SHALL USE A REINFORCED METALLIZED VAPOR BARRIER, BE ACOUSTICALLY RATED, USE A SELF-EXTINGUISHING CHLORINATED POLYETHYLENE (CPE) CORE PERMANENTLY BONDED TO A COATED SPRING STEEL WIRE HELIX THAT SUPPORTS AMPLE BLANKET OF FIBERGLASS INSULATION, PROVIDING A DOUBLE AIR SEAL. ALL PRE-INSULATED FLEXIBLE DUCTWORK SHALL BE SUPPORTED AND JOINED TO SHEET METAL PER SMACNA DUCT CONSTRUCTION STANDARDS AN SHALL USE A 2" SHEET METAL SADDLE AT EACH SUPPORT HANGER.
7. FLEXIBLE DUCTWORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER THAT SHALL ELIMINATE RESTRICTION TO AIR FLOW. ALL FLEXIBLE DUCTWORK SHALL BE CUT TO FIT THE LENGTH REQUIRED.
8. GRILLES AND REGISTERS SHALL BE LOCATED SO AS TO BE CENTERED ON ADJACENT ARCHITECTURAL FEATURES, AND WITH THEIR EDGES ALIGNED WITH ONE ANOTHER WHERE APPLICABLE (ALIGN TOPS OF ADJACENT SUPPLY AND RETURN WALL REGISTERS AND GRILLES, FOR EXAMPLE). COORDINATE WITH GENERAL CONTRACTOR SO THAT FRAMING, BLOCKING, ETC. WILL ALLOW FOR INSTALLATION OF REGISTERS, GRILLES, AND DUCTWORK.
9. CUTTING OR PENETRATION OF STRUCTURAL MEMBERS IS PROHIBITED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
10. LINE VOLTAGE EQUIPMENT, SUCH AS MOTOR STARTERS, DISCONNECTS, ALTERNATOR, AND FIRE SMOKE DAMPERS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL ADVISE THE ELECTRICAL CONTRACTOR OF THE REQUIRED SIZES AND CAPACITIES OF ALL SUCH EQUIPMENT.
11. CONTROLS SCHEMATICS ARE INTENDED TO CONVEY OPERATING PRINCIPLES AND INTER-RELATIONSHIPS ONLY. ACTUAL SIZING, LOCATION AND PLACEMENT OF COMPONENTS AND WIRING SHALL BE PER MANUFACTURERS' AND CODE REQUIREMENTS.
12. PRIOR TO START OF CONSTRUCTION WORK, CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS IN ADEQUATE DETAIL FOR REVIEW BY THE ARCHITECT AND SHALL RECEIVE APPROVAL OF THE DRAWINGS.
13. FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR A COMPLETE AND WORKINGE SYSTEM THAT CORRESPONDS TO ORIGINAL DESIGN INTENTION.
14. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT TO CLEAR STRUCTURAL AND ARCHITECTURAL MEMBERS.
15. GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR FROM THE DATE OF FILING NOTICE OF COMPLETION.
16. OWNER SHALL PAY AND OBTAIN FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.
17. INSTALL ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
18. PLATFORMS, CURBS, AND FLASHING FOR MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH MANUFACTURER REQUIREMENTS AND WITH STRUCTURAL AND ARCHITECTURAL PLANS. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
19. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS. RECOMMENDATIONS. INSTALL CLEARANCE SPACE FOR MAINTAINING EQUIPMENT PER MANUFACTURER REQUIREMENTS AND ELECTRICAL CLEARANCE REQUIREMENTS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
20. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS OR THE APPLICABLE STANDARDS ADOPTED BY SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION).
21. ALL DUCTWORK SHALL BE INSULATED OR LINED PER CALIFORNIA ENERGY CODE 120.4, TITLE 24 DOCUMENTATION, OR AS NOTED IN THE DRAWINGS WHICHEVER IS MORE RESTRICTIVE. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER SPECIFICATIONS.
22. AS REQUIRED FOR AIR BALANCING, MANUAL DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS. UNLESS GRILLES ARE NOTED WITH OPPOSED BLADE DAMPERS IN HARD LID APPLICATIONS, CONTRACTOR TO PROVIDE REMOTE CABLE OPERATED VOLUME DAMPERS AS REQUIRED.
23. ALL EQUIPMENT, DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
24. COORDINATE LOCATIONS OF THERMOSTATS/SENSORS WITH ARCHITECTURAL DOCUMENTS AND MOUNT PER LATEST ADA REQUIREMENTS.
25. COORDINATE ALL FLOOR, CEILING AND WALL OPENINGS WITH ARCHITECTURAL AND STRUCTURAL.
26. ALL DUCT ELBOWS SHALL BE 1.5 TIMES THE DUCT DIAMETER OR GREATER. SHORT RADIUS ELBOWS WITH RADIUS 1.0 TIMES THE DUCT DIAMETER SHOULD ONLY BE USED WHERE STANDARD RADIUS WILL NOT WORK.
27. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONTROL COMPONENTS SHOWN IN FLOOR PLANS, FLOW DIAGRAMS, DETAILS, AND CONTROL DIAGRAMS OR ITEMS NECESSARY TO HAVE SYSTEM PERFORM AS INTENDED.
28. ALL PIPING AND DUCTWORK SHALL BE CONNECTED TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.
29. COORDINATE WITH ARCHITECTURAL DWGS. FOR ALL LOUVER SIZES AND LOCATIONS.
30. PROVIDE A VALVED DRAIN AT LOW POINTS IN EACH PIPING SYSTEM.
31. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS INDICATED IN INCHES.
32. ALL PIPING IN MECHANICAL ROOMS TO BE HUNG WITH SPRING ISOLATORS WITH 1/2" STATIC DEFLECTION AT SPECIFIED SPACING FOR HORIZONTAL PIPING, VERTICAL DROPS AND ALL ELBOWS.
33. PROVIDE ELBOW SUPPORTS AT ALL PIPE CONNECTIONS TO EQUIPMENT.
34. PROVIDE AUTOMATIC AIR RELIEF VENTS AT EACH HIGH POINT OF PIPING SYSTEM.
35. ARRANGE ALL PIPING WITHIN STRUCTURE NEATLY ALONG WALLS AND/OR IN NEAT HORIZONTAL GROUPS.
36. SEE ARCHITECTURAL DOCUMENTS FOR PAINTING OF ALL EXPOSED DUCTWORK, PIPING, AIR OUTLETS AND FIXTURE TRIM. ALL DUCTWORK AND PIPING IN MECHANICAL EQUIPMENT ROOM IS TO BE PAINTED IN COMPLIANCE WITH DIVISION 23.
37. PROVIDE ALL REQUIRED PIPE ANCHORS, PIPE GUIDES, AND PIPE EXPANSION JOINTS FOR HEATING, HOT WATER SYSTEMS. SUBMIT SHOP DRAWINGS INDICATING LOCATIONS AND DETAILS FOR REVIEW AND APPROVAL.
38. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE AND TO ISOLOTE ANY AND ALL EQUIPMENT FOR MAINTENANCE OR REPLACEMENT.
39. NO PIPING SHALL BE PLACED OVER ELECTRICAL PANELS, OR IN ELECTRICAL AND ELEVATOR ROOMS.
40. DUCT SMOKE DETECTORS SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRED BY CMC 607. DUCT SMOKE DETECTOR SHALL BE INSTALLED IN SUPPLY AIRSTREAM AND UTILIZE 120V POWER FROM A CIRCUIT THAT WILL NOT BE SHUTOFF DURING MAINTENANCE OF THE MECHANICAL EQUIPMENT. ALL WIRING TO BE BY OTHERS FOR LINE VOLTAGE AND FOR CONNECTION TO THE FIRE ALARM PANEL FOR MONITORING AS REQUIRED.
41. ALL PIPING SHOWN ON DRAWINGS ARE DIAGRAMMATIC. PROVIDE ALL NECESSARY PIPING OFFSETS, WHETHER OR NOT SHOWN ON DRAWINGS TO COORDINATE WORK WITH OTHER TRADES.
42. ALL PIPING IN CONCRETE FOUNDATIONS, AND WALLS, INCLUDING BLOCK WALLS SHALL BE FULLY INSULATED TO ISOLATE PIPING FROM CONCRETE. PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL UTILIZE VIBRATION ISOLATION METHODS TO MINIMIZE VIBRATION TO WALL/FLOOR.
43. ALL PIPING AND DUCTWORK PENETRATIONS SHALL BE UL LISTED THROUGH PENETRATION FIRE STOP SYSTEM WHERE THEY PENETRATE A RATED WALL.
44. PROVIDE AND INSTALL CEILING ACCESS PANELS IN ALL NON-ACCESSIBLE CEILINGS FOR VALVES, CLEANOUTS, DAMPERS, AND OTHER MAINTENANCE ITEMS REQUIRING SERVICE. COORDINATE ALL CEILING ACCESS PANELS WITH ARCHITECT / GENERAL CONTRACTOR PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR TYPE OF CEILINGS AND WALLS. INSTALL FIRE RATED ACCESS PANELS IN FIRE RATED CEILING AND WALLS. SEE ARCHITECTURAL SPECIFICATIONS FOR ACCESS PANELS.
45. WHERE MAIN PIPE SIZE OR DUCT SIZE IS NOT INDICATED BETWEEN BRANCH CONNECTIONS IN THE DRAWING, THE PIPE SIZE SHALL BE OF THE LARGER PRECEDING PIPE / DUCT SIZE.
46. UNLESS OTHERWISE NOTED, ALL VALVES AND ACCESSORIES SHALL BE FULL LINE SIZE. PROVIDE ALL NECESSARY UNIONS, REDUCERS AND STOPS AS REQUIRED WHEN CONNECTING TO EACH FIXTURE AND/OR EQUIPMENT.
47. ANY CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO THE CONSTRUCTION OF SUCH ITEMS.
48. CONTRACTOR IS REQUIRED TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM THAT COMPLY WITH ACCEPTABLE TOLERANCES OF PLUS OR MINUS 10% OF THE DESIGN PARAMETERS; SUCH TOLERANCES ARE UP TO THE CONTRACTOR TO DOCUMENT AND PROVE AS REQUIRED. ANY CORRECTIONS REQUIRED IN MEETING THE DESIGN PARAMETERS AND TOLERANCES SHALL BE AT CONTRACTOR EXPENSE. AIR BALANCE TECHNICIAN SHALL BE AABC / NEBB CERTIFIED OR EQUIVALENT.
49. MATERIALS FOR METAL DUCTS SHALL COMPLY WITH 2019 CMC.
50. METAL DUCT SHALL BE SUPPORTED PER THE MINIMUM REQUIREMENTS OF 2019 CMC AND ROUND DUCT LESS THAN 41" DIAMETER SHALL BE BRACED AND GUYED TO PREVENT LATERAL OR HORIZONTAL SWING. USE SMACNA SEISMIC RESTRAINT GUILDENES FOR ALL DUCT SUPPORT REQUIREMENTS.
51. FACTORY MADE DUCTWORK SHALL BE SUPPORTED PER THE MINIMUM REQUIREMENTS OF 2019 CMC OR AS SPECIFIED BY THE MANUFACTURES INSTALLATION INSTRUCTIONS.
52. DUCT LINER OR EXTERIOR INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50, PER 2019 CMC.
53. DOMESTIC DRYER DUCTS SHALL BE OF SHEET METAL AND HAVE A SMOOTH INTERIOR PER CMC 504.4.2.
54. MECHANICAL EQUIPMENT AND DEVICES SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION BEING TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING OR ANY PART OF THE BUILDING STRUCTURE BY APPARATUS, PIPING, DUCT WORK, CONDUITS, OR OTHER PARTS OF THE MECHANICAL WORK.
55. AIR DISTRIBUTION DEVICES, AIR MOVING UNITS, LIGHT FIXTURES, AIR DIFFUSERS, FANS, THERMOSTATS AND OTHER SUCH EQUIPMENT THAT MAY PRODUCE SOUND OR VIBRATION EITHER OUTSIDE OR WITHIN THE OCCUPIED SPACE OF THE BUILDING SHALL, AS A MINIMUM REQUIREMENT, CONFORM TO THE INSTALLATION DETAILS AND RECOMMENDATIONS IN CHAPTER 48 OF THE 2019 ASHRAE HANDBOOK, "HVAC APPLICATIONS".
56. MECHANICAL VENTILATION SHALL BE 10'0" MINIMUM AWAY FROM ANY ENVIRONMENTAL EXHAUST OR PLUMBING VENT.
57. ENVIRONMENTAL EXHAUST TERMINATIONS SHALL BE MINIMUM 3'0" FROM OPENINGS INTO BUILDING.
58. TITLE 24 COMPLIANT THERMOSTATS SHALL BE PROVIDED TO ALL HVAC SYSTEMS UNLESS OTHERWISE NOTED.
59. DUCTWORK, REFRIGERANT LINES, AND ANY MECHANCIAL PIPING SHALL BE INSULATED PER 2019 CMC/CEC.
60. CONTRACTOR TO VERIFY WITH MANUFACTURER'S INSTALLATION MANUAL ALL REFRIGERANT SIZING LENGTHS AND LIMITATIONS, VERIFYING COMPLIANCE PRIOR TO ORDERING EQUIPMENT, MATERIAL, AND INSTALLATION.
61. CONTRACTOR TO REVIEW ACOUSTIC REPORT (IF APPLICABLE)
62. ALL EQUIPMENT GREATER THAN 400 LBS SHALL HAVE STRUCTURAL CALCULATIONS IN ACCORDANCE WITH 2019 CBC.
63. EXHAUST DUCTS HALL TERMINATE OUTSIDE OF THE BUILDING PER PROVIONS OF CMC 502.1.
64. ALL ROOFTOP EQUIPMENT SHALL BE INSTALLED ON A WELL DRAINED SURFACE OF THE ROOF PER CMC 303.9.4.

SEISMIC BRACING CRITERIA

A. PROVIDE SEISMIC BRACING OF ALL MECHANICAL EQUIPMENT, PIPING AND DUCTWORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE FOR "SEISMIC DESIGN CATEGORY D."

B. INSTALLATION OF METAL DUCTS OR FACTORY AIR DUCTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA MECHANICAL CODE.

C. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION OF ALL MECHANICAL EQUIPMENT ANCHORAGE SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

TITLE 24

1. CONTRACTOR TO REVIEW TITLE 24 DOCUMENTATION (IF APPLICABLE) TO ENSURE COMPLIANCE PRIOR TO INSTALLATION.

LEGEND, SYMBOLS AND ABBREVIATION NOTE

LEGEND, SYMBOLS AND ABBREVIATIONS LISTED ARE FOR GENERAL USE. OTHER SYMBOLS MAY BE USED FROM INDUSTRY RECOGNIZED ORGANIZATIONS INCLUDING BUT NOT LIMITED TO ASHRAE, ASPE, IAPMO, OR SMACNA. DISREGARD THOSE WHICH ARE NOT USED ON THE DRAWINGS.

NON-RESIDENTIAL CAL GREEN REQUIREMENTS

1. BUILDINGS SHALL BE COMMISSIONED PER CAL GREEN 5.410.2 REQUIREMENTS.
2. HVAC SHALL BE TESTED AND BALANCE PER CAL GREEN 5.410.4 AND A REPORT OF THE BALANCE & TESTING AS WELL AS ALL O&M MANUALS FOR EQUIPMENT SHALL BE PROVIDED TO THE OWNER OR OWNERS REPRESENTATIVE PER 5.410.4.4 & 5.410.4.5.
3. HVAC SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING FOR MATERIAL AND EQUIPMENT INSTALLATION. HVAC SHALL HAVE MERV 8 FILTRATION DURING CONSTRUCTION AND MUST BE REPLACED PRIOR TO OCCUPANCY. REPLACEMENT FILTERS SHALL BE MERV 13 PER 2019 CEC PER CAL GREEN 5.504.1.
4. DURING ROUGH IN, STORAGE, AND CONSTRUCTION DUCT OPENINGS AND EQUIPMENT SHALL BE COVERED AND PROTECTED PER CAL GREEN 5.504.3.
5. ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AND AEROSOL ADHESIVES SHALL BE IN COMPLIANCE WITH CAL GREEN 5.504.4.
6. VENTILATION SHALL CONFORM TO CBC 1202 VENTILATION REQUIREMENTS PER CAL GREEN 5.505.
7. BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED PER CEC 120(C)4 PER CAL GREEN 5.506.2.
8. CHLOROFLUROCARBONS OR HALONS SHALL NOT BE USED IN THE HVAC SYSTEM PER CAL GREEN 5.508.1.
9. HVAC INSTALLERS SHALL BE TRAINED PER CAL GREEN 702.1.

RESIDENTIAL CAL GREEN REQUIREMENTS

1. ALL OPENINGS THROUGH EXTERIOR ENVELOPE BY HVAC ITEMS SHALL BE SEALED AND RODENT PROOFED PER RESIDENTIAL CAL GREEN 4.406.1
2. OPERATIONS AND OWNERS MANUALS SHALL BE PROVIDED FOR ALL EQUIPMENT TO THE OWNER OR OWNERS REPRESENTATIVE PER RESIDENTIAL CAL GREEN 4.410.1
3. DURING ROUGH IN, STORAGE, AND CONSTRUCTION DUCT OPENINGS AND EQUIPMENT SHALL BE COVERED AND PROTECTED PER RESIDENTIAL CAL GREEN 4.504.1.
4. ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, AND AEROSOL ADHESIVES SHALL BE IN COMPLIANCE WITH RESIDENTIAL CAL GREEN 4.504.
5. FANS SHALL BE ENERGY STAR COMPLIANT AND SHALL CONTAIN HUMIDITY CONTROL UNLESS FAN IS PART OF WHOLE HOUSE VENTILATION. HUMIDITY CONTROLS AND FAN REQUIREMENTS SHALL COMPLY WITH RESIDENTIAL CAL GREEN 4.506.
6. HEATING AND AIR CONDITION SYSTEMS SHALL BE SIZED AND DESIGNED USING:
   a. HEAT LOSS AND HEAT GAIN ACCORDING TO ANSI/ACCA 2 MANUAL J- 2011, ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
   b. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D - 2014 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUAL SOFTWARE OR METHODS.
   c. SELECT HVAC ACCORDING TO ANSI/ACCA 3 MANUAL S - 2014 (RESIDENTIAL EQUIPMENT SELECTION), OR OTHER EQUIVALENT SOFTWARE OR METHODS.
7. HVAC INSTALLERS SHALL BE TRAINED PER CAL GREEN 702.1.

MECHANICAL SHEET INDEX

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M300-02	STORAGE BUILDING MECHANICAL PLAN
M401-02	MECHANICAL DETAILS
M402-02	MECHANICAL DETAILS
M402A-02	MECHANICAL DETAILS
M403-02	CAPTIVEAIRE SHOP DRAWINGS
M404-02	CAPTIVEAIRE SHOP DRAWINGS
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M504-02	TITLE 24
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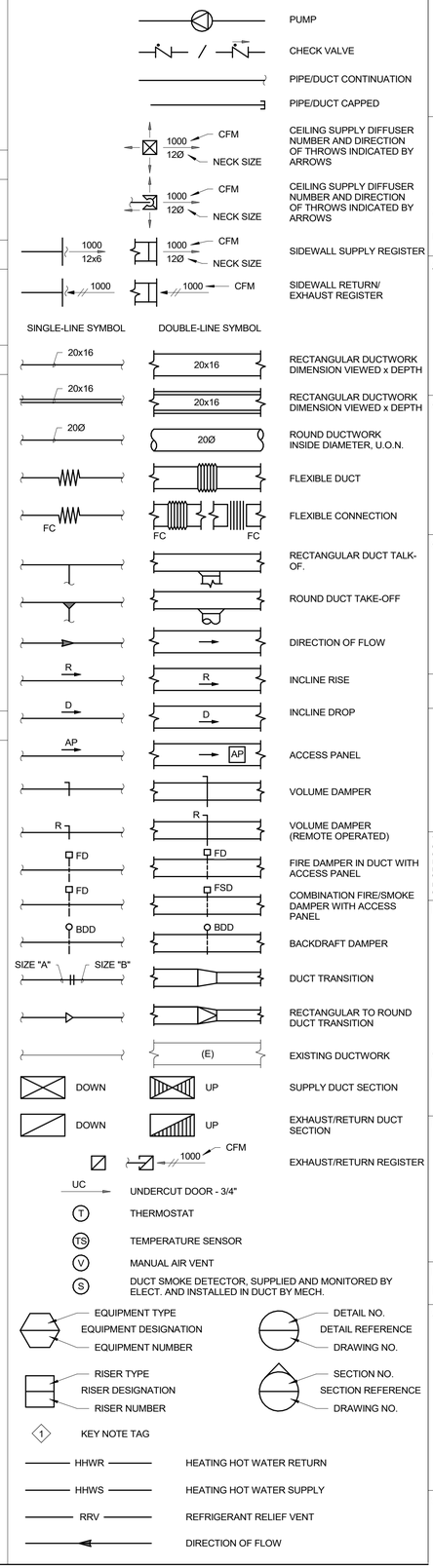
LEGEND AND SYMBOLS



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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PROJECT:

MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

SYMBOLS, SPECIFICATIONS AND NOTES

SHEET NUMBER:

M001-02

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VARIABLE REFRIGERANT VOLUME HEAT PUMP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	SERVICE	REFRIGERANT			COOLING CAPACITY					HEATING CAPACITY			OUTDOOR FAN DATA		COMPRESSOR		ELECTRICAL DATA					WEIGHT (LBS.)	REMARKS
				TYPE	FACTORY CHARGE (LBS)	ADD'L CHARGE (LBS)	TOTAL (BTUH)	AMBIENT DESIGH °FDB	SEER	EER	IEER	HEATING (BTUH)	COP	HSPF	BHP	WATTS	RLA	FLA	VOLTS	PHASE	HZ	MCA	MOCP		
HP-1	DAIKIN	REYA288AATJA	LEVEL 1 & 2	R32 (A2L)	51.6	51.7	275,320	84.2	-	10.5	19.3	278,921	3.4	-	-	-	59.6	-	230	3	60	50 + 50	60 + 60	1600	1, 2, 3, 4. 5
HP-2	DAIKIN	REYA240AATJA	MPR	R32 (A2L)	25.8	57.5	215,905	84.2	-	11.6	19.2	189,530	3.6	-	-	-	66.2	-	230	3	60	79.1	90.0	972.2	1, 2, 3, 4, 5

NOTES:
1. VARIABLE REFRIGERANT VOLUME HEAT PUMP
2. CODE REQUIRED PIPIONG INSULATION.
3. REFRIGERANT GAS REQUIRED COMPONENTS:
   A. SUCTION FILTER
   B. SHUT-OFF VALVE
   C. FROSTAT
4. NON-FUSED DISCONNECT
5. REFEREBCE MOUNTING DETAIL 4/M402-02.

FAN COIL UNIT SCHEDULE

UNIT TAG	MANUFACTURER	MODEL NUMBER	AREA SERVED	SUPPLY AIR CFM	OUTSIDE AIR CFM	ESP (INCH WG)	EVAP AIR TEMP. °F db/°F wb	COOLING CAPACITY		HEATING		ELECTRICAL			WEIGHT LBS	REMARKS
								TOTAL (BTUH)	SENSIBLE (BTUH)	CAPACITY (BTUH)	AUX. KW	MCA	MOCP	VOLT/PH/Hz		
FCU-1-1	DAIKIN	FXTA60AAVJUA	SEE PLAN-LEVEL 1	1,800	392	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 5
FCU-2-1	DAIKIN	FXTA60AAVJUA	SEE PLAN-LEVEL 1	1,800	472	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 5
FCU-3-1	DAIKIN	FXTA60AAVJUA	SEE PLAN-LEVEL 1	1,800	75	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 5
FCU-4-1	DAIKIN	FXTA60AAVJUA	SEE PLAN-LEVEL 2	1,800	210	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 5
FCU-5-1	DAIKIN	FXTA60AAVJUA	SEE PLAN-LEVEL 2	1,800	255	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 5
FCU-6-2	DAIKIN	FXTA60AAVJUA	SEE PLAN-MPR	1,800	941	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 4, 5
FCU-7-2	DAIKIN	FXTA60AAVJUA	SEE PLAN-MPR	1,800	941	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 4, 5
FCU-8-2	DAIKIN	FXTA60AAVJUA	SEE PLAN-MPR	1,800	941	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 4, 5
FCU-8-2	DAIKIN	FXTA60AAVJUA	SEE PLAN-MPR	1,800	941	1.00	80 / 67	56,761	39,450	70,600	-	8.6	15	208-230/1/60	165	1, 2, 3, 4, 5

NOTES:
1. FAN COIL UNIT.
2. MERV 13 FILTER
3. THERMOSTAT
4. DUCT SMOKE DETECTOR
5. SEE DETAIL 2/M401-02 FOR FAN COIL UNIT INSTALLATION DETAIL.

MIXING BOX SCHEDULE

TAG	AREA SERVED	DESCRIPTION / SETTINGS				REMARKS
		MODEL	AIR PRESSURE DROP	MAX. DAMPER SETTING	MIN. DAMPER SETTING	
MXB-1-1	FC-1-1	CAN FAB	0.6	1600	400	1,2,3,4
MXB-2-1	FC-2-1	CAN FAB	0.6	1600	400	1,2,3,4
MXB-3-1	FC-3-1	CAN FAB	0.6	1600	400	1,2,3,4
MXB-4-1	FC-4-1	CAN FAB	0.6	1600	400	1,2,3,4
MXB-5-1	FC-5-1	CAN FAB	0.6	1600	400	1,2,3,4
MXB-6-2	FC-6-2	CAN FAB	0.6	1600	400	1,2,3,4
MXB-7-2	FC-7-2	CAN FAB	0.6	1600	400	1,2,3,4
MXB-8-2	FC-8-2	CAN FAB	0.6	1600	400	1,2,3,4
MXB-9-2	FC-9-2	CAN FAB	0.6	1600	400	1,2,3,4

NOTES:
1. INSTALL ECONOMIZER IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
2. PROVIDE 120V/24V TRANSFORMER.
3. SEE T-24 - TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENT
4. INSTALL ECONOMIZER IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION... PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

AIR DEVICE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	CONSTRUCTION	FACE TYPE	NECK SIZE	FACE ZIZE	MOUNTING	MAXIMUM NC	REMARKS
SD-1	"TITUS"	PAS	STEEL	PERFORATED	12"	24"X24"	DUCT	25	1, 2, 3
SD-2	"TITUS"	PAS	STEEL	PERFORATED	10"	24"X24"	DUCT	25	1, 2, 3
SD-3	"TITUS"	PAS	STEEL	PERFORATED	8"	24"X24"	DUCT	25	1, 2, 3
RD-1	"TITUS"	PAR	STEEL	PERFORATED	12"	24"X24"	DUCT	25	1, 2
RD-2	"TITUS"	PAR	STEEL	PERFORATED	16"	24"X24"	DUCT	25	1, 2
RD-3	"TITUS"	PAR	STEEL	PERFORATED	8"	24"X24"	DUCT	25	1, 2
EG-1	"TITUS"	350RS	STEEL	GRILLE	8X8"	8-3/4"X8-3/4"	DUCT	25	1, 2
TG-1	"TITUS"	350RS	STEEL	GRILLE	8X8"	8-3/4"X8-3/4"	DUCT	25	1, 2
SG-1	"TITUS"	300RS	STEEL	GRILLE	18"X12"	18-3/4"X12-3/4"	DUCT	25	1, 2
RG-1	"TITUS"	350RS	STEEL	GRILLE	22"X22"	22-3/4"X22-3/4"	DUCT	25	1, 2
IL-1	"RUSKIN"	MO. ET125	ALUMINUM	LOUVER	54"X24"	54"X24"	WALL	-	4

NOTES:
1. BRANCH DUCT SHALL BE THE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON PLANS.
2. BAKED ENAMEL FINISH. COORDINATE COLOR WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. OPPOSED BLADE DAMPER.
4. FILTERED AIR INTAKE WITH INSECT SCREEN.
4. SEE DETAIL 8/M401-02 FOR INSTALLATION DETAIL.

CONDENSING UNIT SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	SERVICE/LOCATION	NOM. TONS	REFRIGERANT			COOLING			HEATING			CONDENSER AIR TEMP.		ELECTRICAL			WEIGHT LBS	REMARKS
					GAS (INCH)	LIQUID (INCH)	TYPE	CAPACITY BTUH	SEER	EER	CAPACITY BTUH	COP	HSPF	SUMMER °F	WINTER °F	MCA	MOCP	VOLT/PH/Hz		
CU-1	MITSUBISHI	MUZ-GS12NA	CONTROL BOOTH 214	1.0	3/8	1/4	R410A (A1)	12,000	23.1	13.0	14,000	3.8	12.5	95	47	9	15	208-230/1/60	81	1, 2, 3, 4, 5, 6, 7, 8

NOTES:
1. PROVIDE SIGHT GLASS AND FILTER DRYER ON REFRIGERANT CIRCUIT.
2. REFER TO MANUFACTURER INSTALLATION DATA FOR SIZE OF THE REFRIGERANT PIPES.
3. REFER TO MANUFACTURER INSTALLATION DATA FOR CLEARANCES AND ACCESS REQUIREMENTS.
4. INSULATE REFRIGERANT PIPING LIQUID AND SUCTION WITH 1/2 INCH ARMAFLEX INSULATION WITH 2 COATS OF FINISH COAT.
5. STANDARD LINE SET LENGTH OF 65 FEET MAXIMUM. LINE SET LENGTHS GREATER THAT 80 FEET REQUIRE LONG LINE SET ACCESSORIES UP TO 200 FEET LINEAR LENGTH.
6. PROVIDE WITH LOW AMBIENT PRESSURE SWITCH, HARD SHUTOFF TXV, CRANKCASE HEATER, COMPRESSOR START ASSIST, EVAPORATOR FREEZE THERMOSTAT, ISOLATION RELAY.
7. REFRIGERANT CIRCUIT ACCESS PORTS SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS WITH LOCKING TYPE TAMPER RESISTANT CAPS OR IN A MANNER APPROVED BY THE AUTHORITY HAVING JURISDICTION.
8. COOLING ONLY.
9. SEE DETAIL 4/M402-02 FOR MOUNTING DETAIL.

MINI-SPLIT AIR CONDITIONER SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	AREA SERVED	SUPPLY AIR CFM	OUTSIDE AIR...	STATIC PRESSURE IN. WG	EVAP AIR TEMP. °F db/°F wb	COOLING...		HEATING		ELECTRICAL			WEIGHT LBS	REMARKS
								TOTAL BTUH	SENSIBLE BTUH	CAPACITY BTUH	AUX. KW	MCA	MOCP	VOLT/PH/Hz		
MS-1	MITSUBISHI	MSZ-GS12NA	CONTROL BOOTH 214	145 - 399	---	0.50	80 / 67	12,000	-	-	-	1	15	208-230/1/60	22	1, 2, 3

NOTES:
1. KUMO TOUCH "REDLINK" WIRELESS CONTROLLER.
2. LOCKDOWN BRACKET FOR REMOTE CONTROLLER.
3. BLUE DIAMOND MINI CONDENSATE PUMP W/ RESERVOIR & SENSOR (208/230V).
4. SEE DETAIL 9/M401-02 FOR MOUNTING DETAIL.

EVAPORATIVE COOLER SCHEDULE

TAG	MANUFACTURER * MODEL NUMBER	SPACE SERVED	FAN DATA			ELECTRICAL DATA				PUMP			EVAPORATIVE MEDIA					REMARKS
			SUPPLY AIR (CFM)	ESP (IN. WG)	FAN RPM	RPM	HP (WATTS)	DRIVE	VOLTS / PHASE/ HZ	PUMP POWER (W)	PUMP VOLTS /...	QUANTITY	TYPE	THICKNESS (IN.)	QUANTITY	MODEL	WEIGHT (LBS)	
EC-1	"CHAMPION" MO. 14/21 DD	STORAGE BLDG.	14,557	0.4	306	306	3	DIRECT	460 / 3 / 60	73	115 / 1	1	ASPEN MEDIA	1/2	16	110098	983	1
EC-2	"CHAMPION" MO. 14/21 DD	STORAGE BLDG.	14,557	0.4	306	306	3	DIRECT	460 / 3 / 60	73	115 / 1	1	ASPEN MEDIA	1/2	16	110098	983	1

NOTES:
1. OFF / LOW-COOL / HIGH-COOL / LOW-VENT / HIGH VENT.
2. SEE DETAILS 3/402-02, 5/M402-02, & 6/M402-02 FOR INSTALLATION DETAIL.

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MCSD - 26TH ST.

CLIENT:
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SHEET TITLE
SCHEDULES

SHEET NUMBER:
M002-02

FAN SCHEDULE

TAG	MANUFACTURER * MODEL NUMBER	SPACE SERVED	FAN DATA			ELECTRICAL DATA					DRIVE	VOLTS / PHASE / HZ	WEIGHT (LBS)	REMARKS
			CAPACITY...	ESP (IN. WG)	FAN RPM	FAN MOTOR FLA	BHP	HP (WATTS)	MCA	MOCP				
CEF-1	"GREENHECK" MO. SP-A90	JANITOR 107	70	0.28	900	-	-	(15)	-	-	DIRECT	115 / 1 / 60	10	2, 3, 4, 5
CEF-2	"GREENHECK" MO. SP-A510-G	MEN RR-103	140	0.344	907	-	-	(28)	-	-	DIRECT	115 / 1 / 60	32	2, 3, 4, 5
CEF-3	"GREENHECK" MO. SP-250	WOMEN RR-104	210	0.28	900	-	-	(15)	-	-	DIRECT	115 / 1 / 60	24	2, 3, 4, 5
CEF-4	"GREENHECK" MO. SP-A90	STAIR	70	0.321	1000	-	-	(83)	-	-	DIRECT	115 / 1 / 60	10	2, 3, 4, 5
SF-1	"GREENHECK" MO. SQ-7-VG	ELEV. MACHINE ROOM 110	300	0.25	1428	1.3	0.02	1/15	-	-	DIRECT	115 / 1 / 60	33	2, 3, 4, 5
HVLS-1	"GREENHECK" MO. DC-5-7-3MV	MPR PERFORMANCE SPACE 112	5,377	-	50	1.6	-	(50)	-	-	DIRECT	115 / 1 / 60	33	2, 3, 4, 5
HVLS-2	"GREENHECK" MO. DC-5-7-3MV	MPR PERFORMANCE SPACE 112	5,377	-	50	1.6	-	(50)	-	-	DIRECT	115 / 1 / 60	33	2, 3, 4, 5
KEF-1	"CAPTIVEAIRE" MO. SIF15DD	KITCHEN 106	1,920	1.5	1776	4.5	0.894	1.5	-	-	DIRECT	208 / 3 / 60	264	6, 10
MUA-1	"CAPTIVEAIRE" MO. A1-15D	KITCHEN 106	1,660	0.5	1652	6.1	0.743	2	717	15A	DIRECT	208 / 3 / 60	365	6, 11

NOTES:
1. BRANCH DUCT SHALL BE THE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON PLANS.
2. BAKED ENAMEL FINISH. COORDINATE COLOR WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. OPPOSED BLADE DAMPER.
4. FILTERED AIR INTAKE WITH INSECT SCREEN.
5. BACKDRAFT DAMPER
6. NON-FUSED DISCONNECT.
7. HIGH VELOCITY LOS SPEED FAN.
8. STANDARD TOUCHSCREEN CONTROL.
9. IN-LINE GREASE EXHAUST FAN
10 IN-LINE MAKE-UP AIR UNIT.
11 REFERENCE MOUNTING DETAIL 2/M402-02.

AIR BALANCE SCHEDULE

TAG	SPACE SERVED	SUPPLY AIR (CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM)	TRANSFER AIR (CFM)	EXHAUST AIR (CFM)	PRESSURE
KEF-1	TYPE 1 HOOD	-	-	-	-	-1,920	-
MUA-1	TYPE 1 HOOD	1,660	-	-	-	-	-
FC-3-1	KITCHEN 106	1,590	1,330	-	260	-	-
						TOTAL EXHUAST AIR	-1,920
						MAKE-UP AIR FROM MAKE-UP AIR UNIT	1,660
						MAKE-UP AIR FROM FAN COIL UNIT FC-3-1	260
						SPACE PRESSURE (+/-)	0

BALANCING NOTE:
MECHANICAL CONTRACTOR SHALL VERIFY THAT THE NEGATIVE PRESSURE IN THE COOKING AREA, RESULTING FROM MAKEUP AIR BALANCING, DOES NOT EXCEED 0.02 INCHES OF WATER COLUMN, IN ACCORDANCE WITH 2022 CMC SECTION 511.3. 0.02 INCH WATR COLUMN PER 2022 CMC SECTION 511.3 REQUIREMENTS.

THE (CAPTIVEAIRE) EXHAUST FAN MANUFACTURER'S SPECIFICATIONS CONFIRM THAT THE EQUIPMENT IS DESIGNED AND RATED TO OPERATE UNDER NEGATIVE PRESSURE CONDITIONS.

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SCHEDULES

SHEET NUMBER:
M003-02

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

APPLICABLE CODE: 2022 CBC PER IR 16-13.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

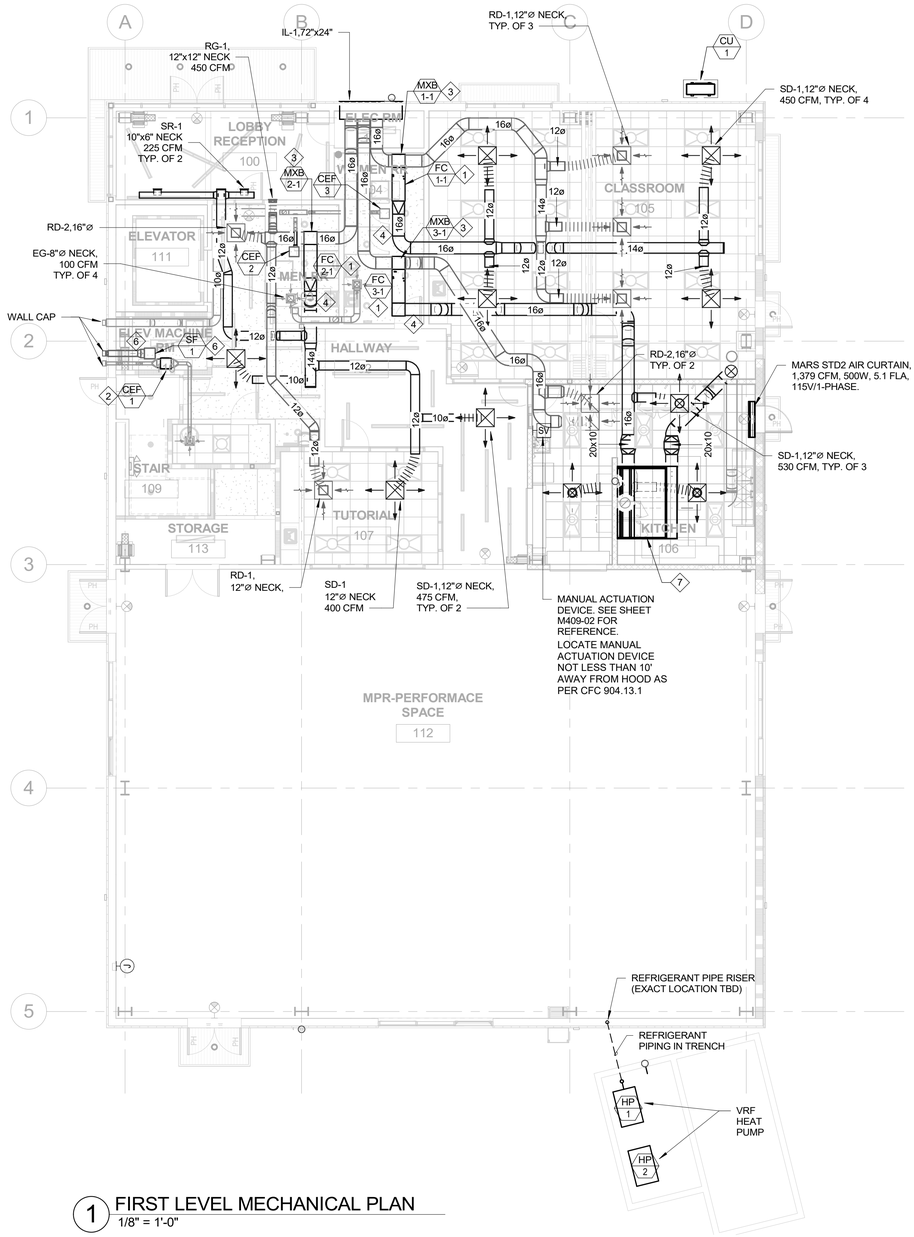
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

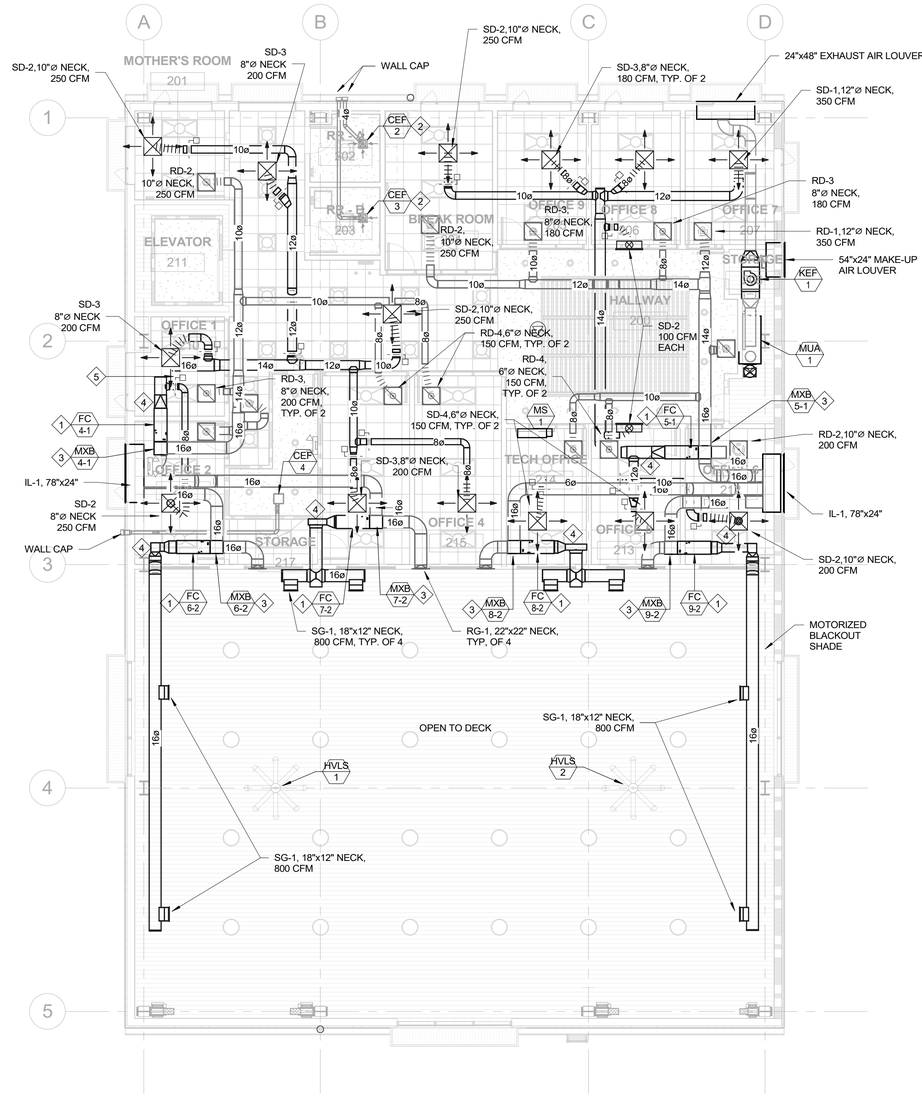
(MP)	(MD)	PP	E	OPTION 1: PROJECT-SPECIFIC DESIGN.
MP	MD	PP	E	OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.
MP	MD	PP	E	OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

SHEET NOTES

1. CEILING SUSPENDED MULTI-POSITION FAN COIL (FC) UNIT. SEE MECHANICAL SCHEDULE FOR SPECIFICATIONS
2. INLINE EXHAUST FAN AND CEILING EXHAUST FAN. SEE MECHANICAL SCHEDULE FOR SPECIFICATIONS.
3. MIXING BOX/ECONOMIZER. SEE MECHANICAL SCHEDULE FOR SPECIFICATIONS.
4. DUCT SMOKE DETECTOR TO SHUT-DOWN FAN COIL UNIT WHEN PRODUCT OF COMBUSTION IS DETECTED.
5. MANUAL VOLUME DAMPER TYPICAL TO ALL SUPPLY BRANCH DUCT. PROVIDE CABLE CONTROL DAMPER FOR ALL DAMPERS INSTALLED ABOVE HARD LID CEILING.
6. SMOKE DETECTOR TO TURN ON SF-1 WHEN SMOKE IS DETECTED. SUPERVISED BY FIRE ALARM CONTROL PANEL.
7. TYPE 1 HOOD.
8. FOR PIPE/DUCT HANGER AND LATERAL BRACING, SEE SHEET M402A-02.



1 FIRST LEVEL MECHANICAL PLAN
1/8" = 1'-0"



2 SECOND LEVEL MECHANICAL PLAN
1/8" = 1'-0"

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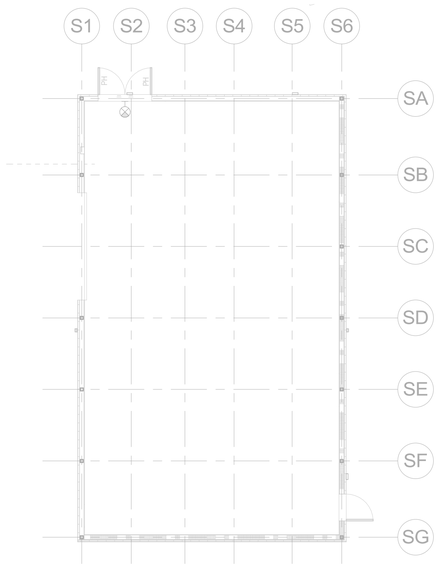
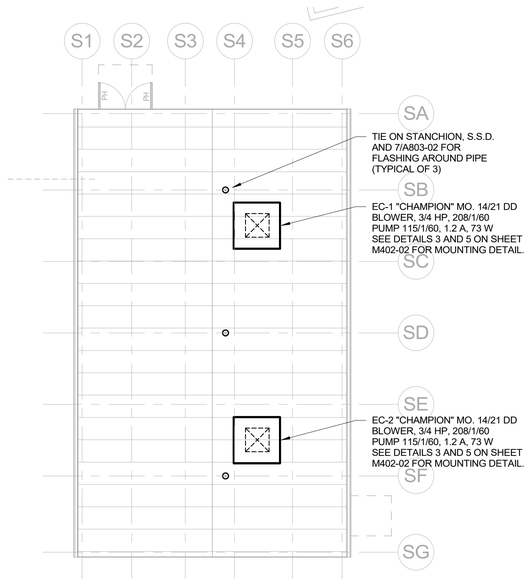


1 STORAGE BUILDING MECHANICAL PLAN
1/8" = 1'-0"



2 STORAGE BUILDING ROOF MECHANICAL PLAN
1/8" = 1'-0"

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M31601
Exp: 12/31/26
MECHANICAL
STATE OF CALIFORNIA

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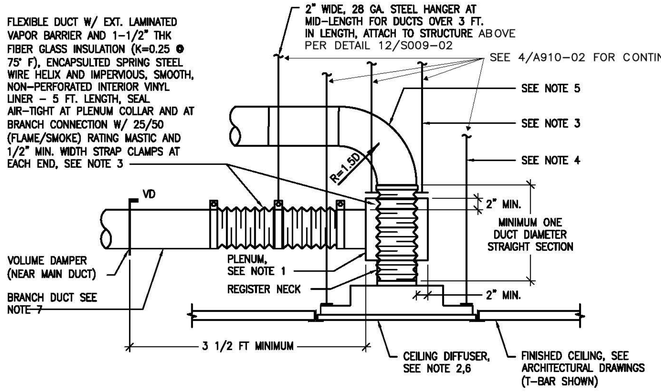
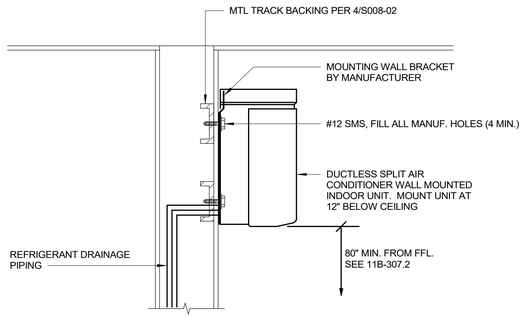
SHEET TITLE
STORAGE BUILDING MECHANICAL PLAN

SHEET NUMBER:
M300-02

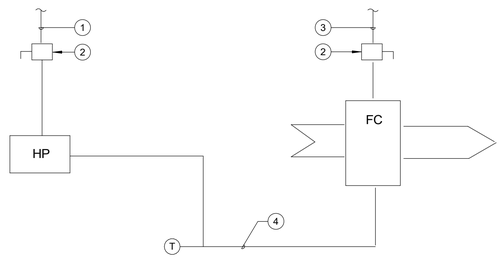


NOTES:
1. EXTERNALLY INSULATE SUPPLY AIR DIFFUSER PLENUMS.
2. TIE DIFFUSERS AND/OR GRILLES TO CEILING GRID WITH #20 GAUGE WIRE AT OPPOSITE SIDES. TERMINATE EACH WIRE AT EACH END WITH 3 TWISTS MINIMUM.
3. FOUR #12 GAUGE TAUT WIRES SUSPENDED FROM ABOVE PER SMACNA STANDARDS AND GUIDELINES FOR SEISMIC RESTRAINT.
4. PROVIDE SUPPORT WIRES ATTACH TO DIFFUSER/GRILLE PER NOTE 3 FOR OPTIONAL FLEXIBLE DUCT CONNECTION TO AIR OUTLETS.
5. OPTIONAL DUCT CONNECTION TO DIFFUSER/GRILLE WHERE SUFFICIENT CEILING SPACE IS AVAILABLE FOR INSTALLATION PER DETAIL. 90° ELBOW SHALL BE HARD DUCT.

8 CEILING DIFFUSER DETAIL
NO SCALE



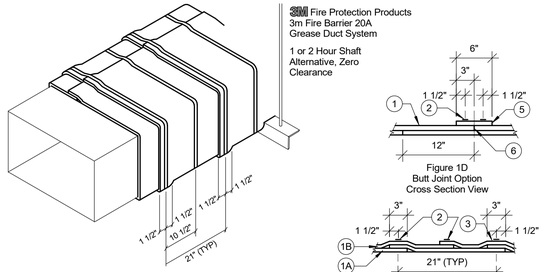
9 WALL MOUNTED DUCTLESS SPLIT FAN COIL UNIT
NO SCALE



1. 208V/1∅/60HZ POWER SUPPLY: PROVIDED BY ELECTRICAL CONTRACTOR.
2. DISCONNECT SWITCH: PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. 208V/1∅, 60HZ - POWER SUPPLY. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. LOW VOLTAGE CONTROL WIRING: PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR

SEQUENCE OF OPERATION:
1. START/STOP: PROGRAMMABLE THERMOSTAT. SUPPY FAN TO BE FACTORY WIRED TO OPERATE WHENEVER THE SYSTEM IS ON.
2. ON EITHER HEATING/COOLING MODE, ARE WILL BE SUPPLIED INTO THE INTENDED SPACE UNTIL IT SATISIFIED THE PRESET THERMOSTAT.

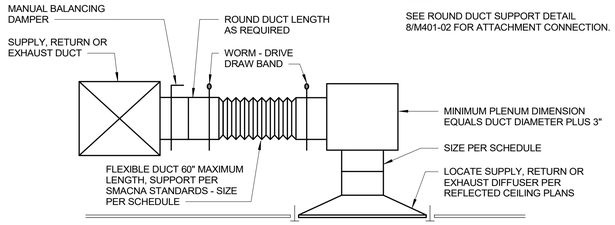
10 FC/HP CONTROL DIAGRAM
NO SCALE



INTEGRITY OF DUCT SYSTEM DEPENDS ON QUALITY OF INSTALLATION.

1A. FIRST LAYER 3M OR EQUAL FIRE BARRIER DUCT WRAP 20A
1B. SECOND LAYER 3M OR EQUAL FIRE BARRIER DUCT WRAP 20
2. STEEL BANDING 1/2" (13 M/M) WIDE. MIN. TYPICAL
3. 3" (76 MM) MIN. LONGITUDINAL OVERLAP
4. 3" (76 MM) MIN. PERIMETER OVERLAP
5. 6" (152 MM) WIDE COLLAR MADE OF 3M OR EQUAL FIRE BARRIER DUCT WRAP 20A ALTERNATE COLLAR; PREFABRICATED 3M OR EQUAL FIRE BARRIER DUCT WRAP 20A COLLAR
6. FIRMLY BUTTED JOINT
7. SEE M402A-02 FOR MORE DETAILS ON INSTALLATION.

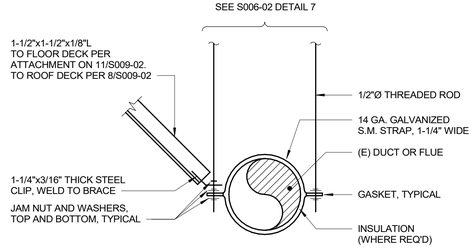
4 FIREWRAP INSTALLATION
NO SCALE



NOTE:

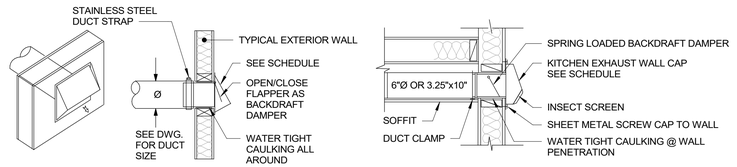
SEE ROUND DUCT SUPPORT DETAIL 8/M401-02 FOR ATTACHMENT CONNECTION.

5 LAY-IN CEILING DIFFUSER - SIDE OF DUCT CONNECTION
NO SCALE



NOTES:
1. THIS DETAIL APPLIES ONLY TO MEDIUM PRESSURE DUCTWORK AS SPECIFED AND ROUND DUCTWORK SPECIFICALLY REFERENCED TO THE DRAWINGS.
2. REFER TO SPECIFICATIONS FOR SUPPORT REQUIREMENTS OF REMAINING ROUND DUCTWORK.

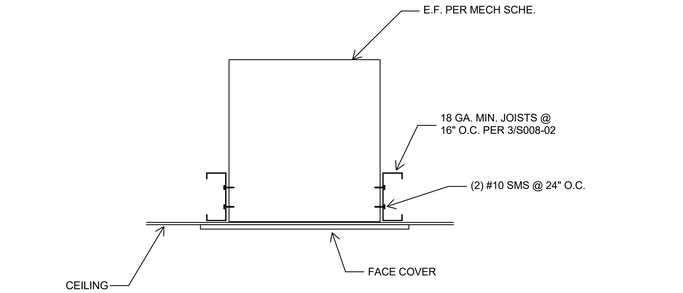
6 ROUND DUCT SUPPORT
NO SCALE



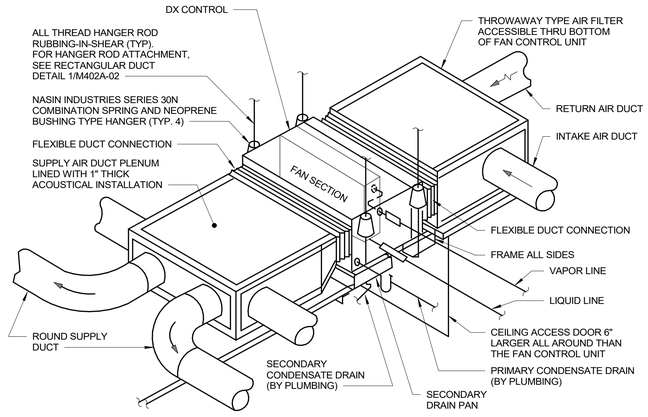
BATH/LAUNDRY EXHAUST

KITCHEN EXHAUST

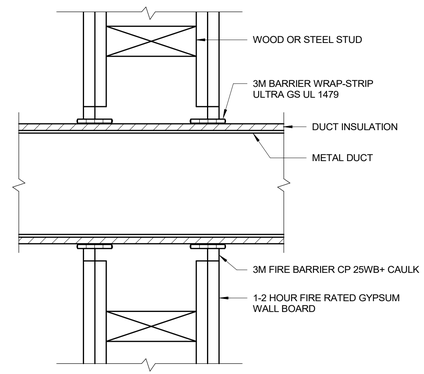
7 WALL EXHAUST CAP DETAIL
NO SCALE



1 CEILING EXHAUST FAN MOUNTING DETAIL (MAX WT. 50 LBS)
NOT TO SCALE



2 FAN COIL UNIT DETAIL
NO SCALE



NOTES:
1. FIRESTOPPING SYSTEM SHALL BE UL LISTED. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND THE PRINTED INSTRUCTION OF UL FIRE RESISTANCE DIRECTORY.
2. THE PENETRATION SEAL MUST BE CAPABLE OF PASSING UL 1479 STANDARD METHOD OF FIRE TESTS THROUGH PENETRATION FIRESTOPS UP TO DESIRED FIRE RESISTANCE.

3 FIRESTOPPING THROUGH GYPSUM WALL
NO SCALE

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MECHANICAL DETAILS

SHEET NUMBER:

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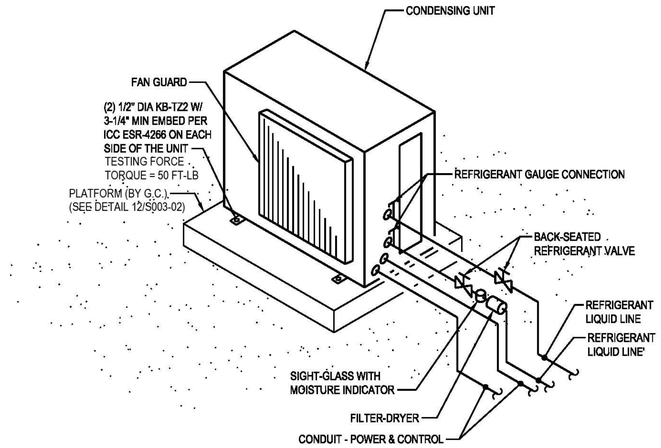
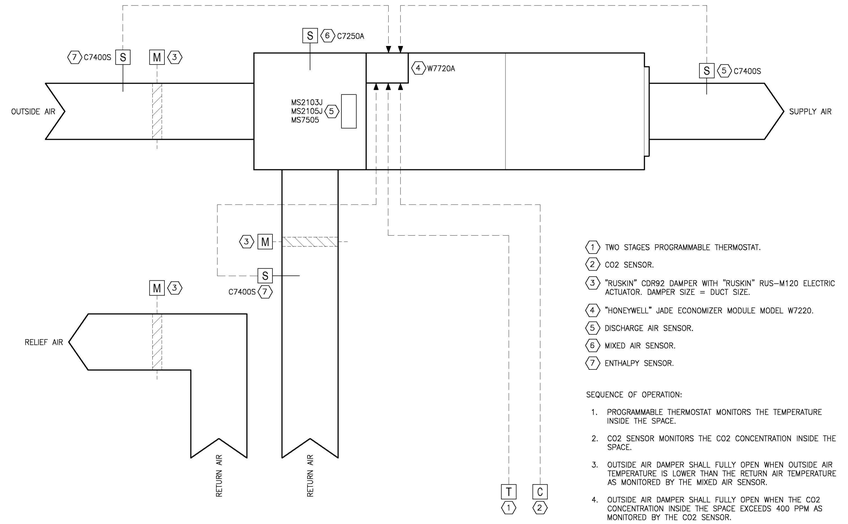


4 HEAT PUMP UNIT CONDENSER DETAIL
NO SCALE

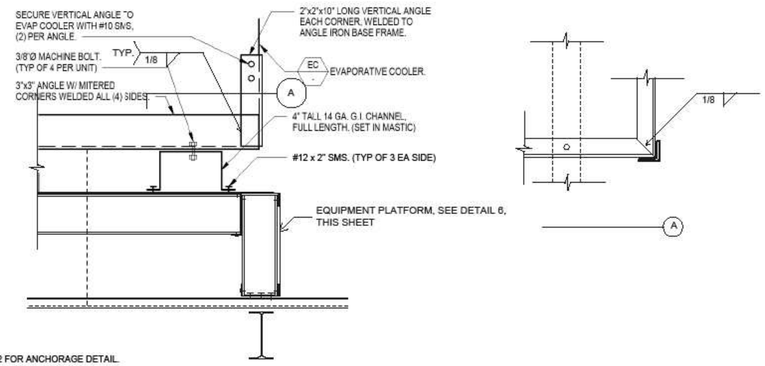


1. TWO STAGES PROGRAMMABLE THERMOSTAT.
2. CO2 SENSOR.
3. "RUSKIN" CDR92 DAMPER WITH "RUSKIN" RUS--M120 ELECTRIC ACTUATOR. DAMPER SIZE = DUCT SIZE.
4. "HONEYWELL" JADE ECONOMIZER MODULE MODEL W7220.
5. DISCHARGE AIR SENSOR.
6. MIXED AIR SENSOR.
7. ENTHALPY SENSOR.

SEQUENCE OF OPERATION:

1. PROGRAMMABLE THERMOSTAT MONITORS THE TEMPERATURE INSIDE THE SPACE.
2. CO2 SENSOR MONITORS THE CO2 CONCENTRATION INSIDE THE SPACE.
3. OUTSIDE AIR DAMPER SHALL FULLY OPEN WHEN OUTSIDE AIR TEMPERATURE IS LOWER THAN THE RETURN AIR TEMPERATURE AS MONITORED BY THE MIXED AIR SENSOR.
4. OUTSIDE AIR DAMPER SHALL FULLY OPEN WHEN THE CO2 CONCENTRATION INSIDE THE SPACE EXCEEDS 400 PPM AS MONITORED BY THE CO2 SENSOR.
5. RETURN AIR DAMPER SHALL CLOSE WHEN THE OUTSIDE DAMPER OPENS.
6. WHEN RETURN AIR DAMPER IS CLOSED, THE RELIEF DAMPER OPENS TO RELIEVE PRESSURE INSIDE THE SPACE.
7. AT NORMAL CONDITION, THE OUTSIDE AIR DAMPER SHALL OPEN YO PROVIDE MINIMUM VENTILATION AIR AS REQUIRED PER TITLE 24. THE RELIEF DAMPER SHALL BE CLOSED.

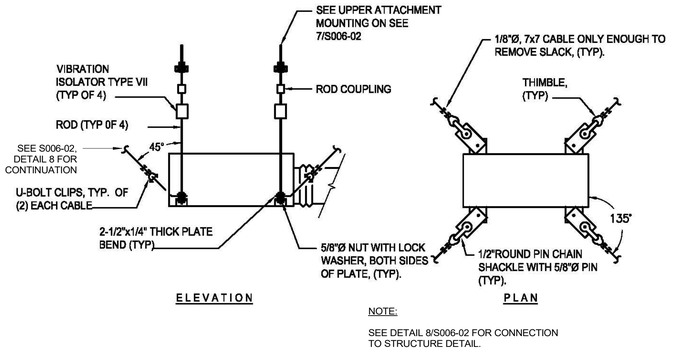
1 ECONOMIZER CONTROL SCHEDULE
NO SCALE



NOTE:

SEE DETAIL 10/S009-02 FOR ANCHORAGE DETAIL.

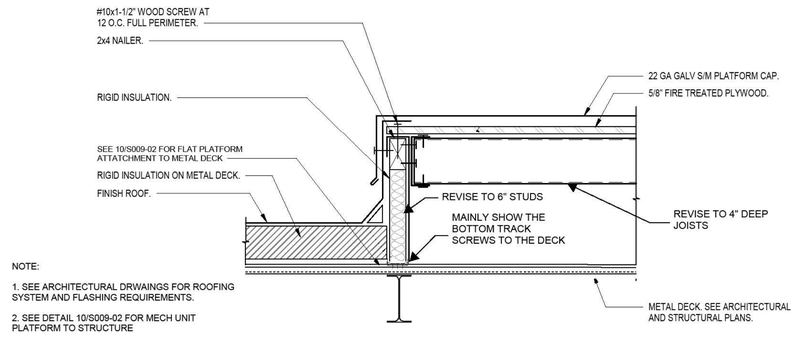
5 EVAP COOLER ON PLATFORM
NO SCALE



NOTE:

SEE DETAIL 8/S006-02 FOR CONNECTION TO STRUCTURE DETAIL.

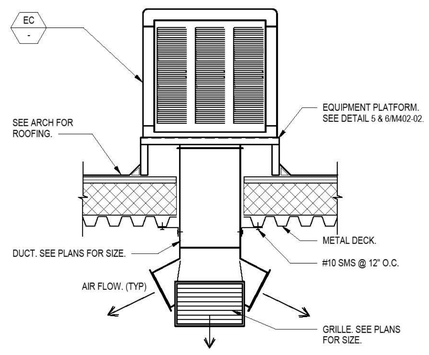
2 KEF-1 & MUA-1 MOUNTING DETAIL
NO SCALE



NOTE:

1. SEE ARCHITECTURAL DRWAINGS FOR ROOFING SYSTEM AND FLASHING REQUIREMENTS.
2. SEE DETAIL 10/S009-02 FOR MECH UNIT PLATFORM TO STRUCTURE

6 EQUIPMENT PLATFORM
NO SCALE



3 EVAP COOLER DUCT AND GRILLES
NO SCALE

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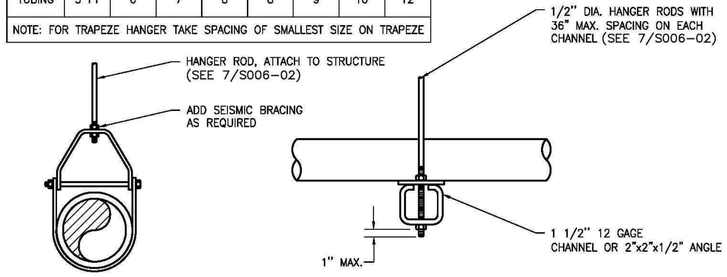
MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET								
NOM. SIZE	THRU 1"	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE	7 FT	7	7	9	10	11	12	14
TUBING	5 FT	6	7	8	8	9	10	12
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE								

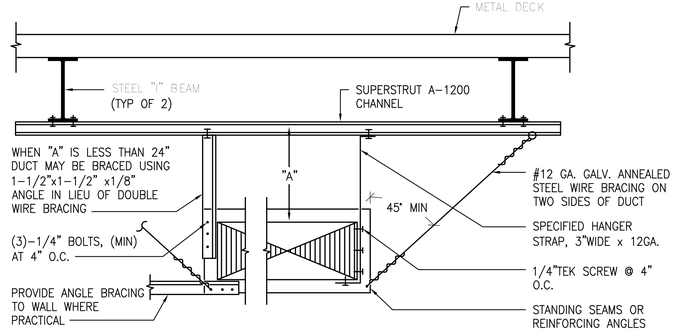


ADJUSTABLE CLEVIS HANGER TYPE 1 IN SPECIFICATIONS

SIDE VIEW

TRAPEZE HANGER FOR UP TO 180 LB. UNIFORM LOAD

3 PIPE HANGING DETAIL 2
NO SCALE



NOTES:
1. THIS DETAIL APPLIES TO LOW PRESSURE DUCTS LESS THAN 48" LONGEST DIMENSION.
2. LOCATE BRACINGS AT 10'-0" O.C. MIN. ALONG DUCT RUN AND WHERE REQUIRED FOR PROPER BRACING.
3. BRACING SIMILAR FOR ROUND DUCT.

1 RECTANGULAR DUCT DETAIL
NO SCALE

Distributed by Thermal Products Company, Inc.

UNIFRAX — Product Information Sheet

FyreWrap® Elite® 1.5 Duct Insulation – Grease Duct ASTM E 2336 System

Introduction
Unifrax's FyreWrap® Elite® 1.5 Duct Insulation is a two-layer flexible enclosure for one- and two-hour rated commercial kitchen grease ducts. FyreWrap Elite 1.5 Duct Insulation is tested per ASTM E 2336 and is acceptable as an alternate to a traditional fire-rated shaft. Installed as a two-layer system, FyreWrap Elite 1.5 complies with AC101 and the 2006 and 2009 Editions of the International Mechanical Code (IMC) and Uniform Mechanical Code (UMC). FyreWrap Elite 1.5 Duct Insulation offers the following product features:

- 2-hour fire-resistance rating
- Alternate to shaft enclosure
- Complies with 2006 and 2009 IMC and UMC
- Tested per ASTM E 2336
- Two-layer system; inner layer utilizes butt joint
- High-temperature, biosoluble insulation
- Zero clearance to combustibles, at any location
- GREENGUARD listed for Microbial Resistance

FyreWrap® Elite® 1.5 Duct Insulation

Typical Product Properties

ICC Evaluation Services	Evaluation Report ESR-2224
Intertek Laboratories (OPL) Listed, File 14870	Duct System: Design No. UNI/BI 120-02, UNI/WA 120-01
ASTM E 2336 (AC101)	Passes all tests
ASTM E 2336 (AC101) Internal Grease Duct Test	Zero Clearance to Combustibles at all locations on wrap
ASTM E 119 Full Scale Engulfment Test	2-hour Fire Resistance Rating
ASTM E 119 Vertical Wall Test	2-hour Fire Resistance Rating
ASTM E 84/UL 723, UL File No. R14514	Unfaced Blanket / Encapsulated
Flame Spread/Smoke Developed Rating	Zero/Zero / <25/<50
ASTM E 814 Firestop Test	Firestop System: UNI/FRD 120-19, UNI/BI 120-02
F-Rating = 2 Hrs., T-Rating = 2 Hrs.	
ASTM E 136 Non-Combustibility Test	Passes
ASTM C 518 Durability Test	Passes; R-Value = 4.8 per inch at 75°F
ASTM C 518 Thermal Resistance	R-Value of Elite 1.5 (1½") = 7.2
ASTM D 6329-03 Microbial Resistance	Resistant to Mold Growth
California State Fire Marshal Listing	No: 2440-1478:100

Complies with: NFPA 96 (all editions), 1997 ICBO Uniform Mechanical Code (UMC), 1997 ICBO Uniform Building Code (UBC), 2000, 2003, 2006 and 2009 International Mechanical Code (IMC), 2000, 2003, 2006 and 2009 IAPMO UMC (Uniform Mechanical Code), NFPA 90 A (2002).

Listed — Complies with NFPA 96 — International Safety Standard

FyreWrap

Form C-1495
Effective 4/11
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Typical Product Parameters

Thickness	1.5"
Nominal Density	6pcf
Standard Product Form	Scrim Encapsulated
Product Availability	24" w x 25LF 48" w x 25LF

Installation
The FyreWrap Elite 1.5 Duct Insulation ASTM E 2336 System consists of a fully encapsulated, two-layer system applied directly to the duct surface. The insulation system may be installed at zero clearance to combustibles at any point. To minimize waste, FyreWrap Elite 1.5 should be rolled out lastly before measuring and making any material cuts.

Butt Joint Both Layers Wrap Option (For ducts 24" x 24" or less)
For ducts 24" x 24" or less, both layers of wrap can be installed with transverse (perimeter) joints butted and minimum 3" longitudinal overlaps located on the topside of horizontal ducts. Stagger transverse butt joints by 12" between the first and second layers of wrap. Both layers of wrap can be temporarily secured with 1" wide filament tape. After the second layer of wrap is installed, place carbon or stainless steel bands (min. ½" wide, .015" thick) on both sides of all transverse butt joints 2½" on center from the joint and in the field area between the butt joints 9" on center. Tighten banding to firmly hold the wrap system in place but not so tight as to cut or damage the blanket and secure with minimum 1" long steel crimp clips. Seal all second layer transverse butt joints and exposed blanket edges with minimum 3" wide aluminum foil tape. Pins are NOT required when utilizing this installation method.

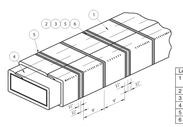
Overlap Techniques
The first layer can be installed with transverse (perimeter) joints butted and minimum 3" longitudinal overlaps on the topside of horizontal ducts. All overlaps for the second, or outer layer, are required to be a minimum of 3". For the second layer, transverse (perimeter) overlaps of adjacent blankets may be installed using one of the following three methods and as shown in Figure 2.

Telescoping Overlap Wrap Technique:
This wrap technique is the most common method of installing FyreWrap Elite 1.5 where each adjacent blanket has one edge exposed and one edge covered by the next blanket, to form a 3" overlap.

Cut the first piece of inner layer insulation to a length sufficient to wrap around the duct and provide a 3" longitudinal overlap on the topside of the duct. Install the adjacent inner layer piece so that the blanket edge is butted against the preceding piece, forming a tight perimeter joint. This piece also requires a 3" longitudinal overlap on the topside of the duct. Space the starting edge of the outer layer a maximum 3" from the exposed edge of the inner layer. All joints on the second layer require a minimum 3" overlap. Ends of the outer overlaps occur on the topside of the horizontal section and backside of the vertical section of the duct, alternating nominal 8" on either side of the longitudinal centerline with each successive wrap piece. All cut edges shall be sealed with aluminum foil tape.

Figure 1. Butt Joint Wrap Option

FyreWrap® Elite® 1.5 Duct Insulation — FP-693
Commercial Kitchen Grease Duct System
ASTM E 2336/ICCES AC101 System
1- and 2-Hour Fire-Rated Enclosure, Shaft Alternative
Zero-Clearance To Combustibles
Butt Joint System (Both Layers, Max. 24" x 24" Duct)



Legend:	
1	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers (each 1.5", total thickness = 3")
2	Filament Tape (Temporary Hold)
3	½" Carbon or SS Banding Straps (Permanent Hold)
4	9" Minimum Longitudinal Overlap
5	1" Compressed Butt Joint
6	3" Wide Aluminum Foil Tape at 2nd Layer Transverse Butt Joints

Form C-1495
Effective 4/11
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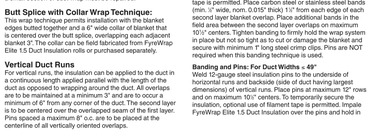
Figure 2. 2-layer detail

FyreWrap® Elite® 1.5 Duct Insulation — FP-421
Commercial Kitchen Grease Duct System
ASTM E 2336 System/ICC ES AC101
1- and 2-Hour Fire-Rated Enclosure, Shaft Alternative
Zero-Clearance To Combustibles



Legend:	
1	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers (each 1.5", total thickness = 3")
2	Filament Tape (Temporary Hold)
3	Carbon or SS Banding Straps (Permanent Hold)
4	3" Minimum Longitudinal Overlap
5	3" Minimum Transverse Overlap
6	1" Compressed Butt Joint
7	Steel Hanger Rod
8	Steel Angle
9	9" wide FyreWrap® Elite® 1.5 Collar

Checkerboard Overlap Wrap Technique:
This installation uses a 3" overlap pattern with both edges of each alternating blanket covered by each adjacent blanket whose edges are exposed. The overlap joints in alternate layers of blanket resemble a checkerboard pattern in the completed installation. This technique is often utilized when a small section of duct wrap must be repaired.

Butt Splice with Collar Wrap Technique:
This wrap technique permits installation with the blanket edges butted together and a 6" wide collar of blanket that is centered over the butt splice, overlapping each adjacent blanket 3". The collar can be field fabricated from FyreWrap Elite 1.5 Duct Insulation rolls or purchased separately.

Vertical Duct Runs
For vertical runs, the insulation can be applied to the duct in a continuous length applied parallel with the length of the duct as opposed to wrapping around the duct. All overlaps are to be maintained at a minimum 3" and are to occur a minimum of 6" from any corner of the duct. The second layer is to be centered over the overlapped seam of the first layer. Pins spaced a maximum 8" o.c. are to be placed at the centerline of all vertically oriented overlaps.

Attachment Options
Three attachment options are available for installers. Choices are limited by the duct width dimension. Details on each option are provided below.

Banding Only: For Duct Widths 24" or Less
To temporarily secure the insulation, optional use of filament tape is permitted. Place carbon steel or stainless steel bands (min. ½" wide, nom. 0.015" thick) 1½" from each edge of each second layer blanket overlap. Place additional bands in the field area between the second layer overlaps on maximum 10½" centers. Tighten banding to firmly hold the wrap system in place but not so tight as to cut or damage the blanket and secure with minimum 1" long steel crimp clips. Pins are NOT required when this banding technique is used.

Banding and Pins: For Duct Widths ≤ 49"
Weld 12-gauge steel insulation pins to the underside of horizontal runs and backside (side of duct having largest dimensions) of vertical runs. Place pins at maximum 12" rows and on maximum 10½" centers. To temporarily secure the insulation, optional use of filament tape is permitted. Impale FyreWrap Elite 1.5 Duct Insulation over the pins and hold in place with minimum 2½" square or 1.5" round galvanized steel speed clips (washers). Locate a second band midpoint between the second layer overlapped joints, approximately 10½" on center. Tighten banding to firmly hold the wrap system in place but not so tight as to cut or damage the blanket and secure with minimum 1" long steel crimp clips. Pins are also permitted and shall be located at the same spacing as pre-welded pins.

Pins Only; For Duct Widths > 49"
Weld 12-gauge steel insulation pins on all sides of the duct. Place insulation pins in rows (perpendicular to the length of the duct) spaced maximum 10½" on center. Pins in each row are maximum 5" from each duct edge and maximum 8" on center. Locate insulation overlaps so they are centered on the pins. Impale FyreWrap Elite 1.5 Duct Insulation over the pins and hold in place with minimum 2½" square or 1½" round galvanized steel speed clips (washers) to keep the system from sagging. Turn down or cut off exposed ends of pins to eliminate safety hazards. Cup head style pins are also permitted and shall be located at the same spacing as pre-welded. The pins only attachment method can be used for duct widths less than 49", but is optional.

Access Door
Field fabricated and prefabricated grease duct access doors are permitted for use with FyreWrap Elite 1.5 Duct Insulation. Installation details are provided below and in Figure 3.

Field fabricated access doors are protected with three layers of FyreWrap Elite 1.5 Duct Insulation. A gasket of 0.5" thick unfaced FyreWrap or ceramic fiber blanket is initially installed between the duct and the access door cover. Weld threaded rod to each corner of the access door opening. Cover with hollow steel tubes (optional) for easy removal of blanket. Weld at least four steel insulation pins to the outside of the door cover panel, 1" from each corner. Cut through the two layers of FyreWrap Elite 1.5 Duct Insulation already covering the duct and access door opening. Leave the interior piece in place. Cut back the outer layer to form an opening with perimeter dimensions that extend 1" beyond the inner layer. Cut a piece of FyreWrap Elite 1.5 Duct Insulation that matches the dimensions of the opening and install over pins to fit tightly within the existing material. Cut an additional piece of insulation with perimeter dimensions that extend 1" beyond the layer below. Install over the insulation pins. Throughout the installation process, seal all cut edges with aluminum foil tape. Secure with washers and bend over excess pin lengths to eliminate safety hazards. Place washers on threaded rod and secure with nuts. Do not install banding over this area. See Figure 3 for details.

Prefabricated – Ductmate Ultimate and Ductmate F2-HT prefabricated access doors are permitted and must be installed in accordance with Ductmate Industries, Inc. installation instructions and the applicable code. The prefabricated access door is protected with three layers of FyreWrap Elite 1.5 Duct Insulation. The first layer is cut to the size of the door. A successive layer (two additional layers) is sized to create an overlap of 1" beyond the layer immediately below. All edges of insulation blanket must be protected with aluminum foil tape. A No. 16 gauge outer plate the same dimension as the outer layer of insulation blanket is held in place over the insulation using threaded rod and wing nuts. The outer plate is supplied with the Ultimate door and F2-HT doors. Access doors are available from Ductmate Industries, Inc. Contact www.ductmate.com or 1-800-245-3188 for additional information or local distributors. Ask for the Access Door Product Line Manager.

APPLIED FIRE PROTECTION
UNIFRAX I LLC
New Carlisle, IN
FyreWrap® Elite® 1.5 Duct Insulation
Nominal Density= 6 pcf
Listed
WIN 14870
Reference Directory of Listed Building Products, Materials & Assemblies for Specifiers
Tested Per:
ASTM E119 - Fire Resistance Rating: 2 hour
ANSI/UL/ULC 263 - 1 Rating: 2 Hr 2 Rating: 2 hour
ASTM E2336
UL 1978 (June 2012) - 4, 14 & 15 - Passed
UL 2221
AC 101 (Engelhard) - Passed
ICC-ES AC101 (Intertek) - Passed
ISO 9644 - Duct Type A

CONTROL NO. — FACED BATTS & BLANKETS — SURFACE BURNING CHARACTERISTICS
FLAME SPREAD 25 — SMOKE DEVELOPED 50
Issue No:_____
R14514

For additional information about product performance or to identify the recommended product for your fire protection application, please contact Unifrax at 716-278-3800 and ask for Fire Protection Application Engineering.

Refer to the product Material Safety Data Sheet (MSDS) for recommended work practices and other product safety information.

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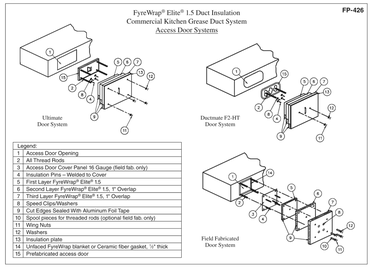
Figure 3. Access Door

FyreWrap® Elite® 1.5 Duct Insulation — FP-426
Commercial Kitchen Grease Duct System
Access Door Systems



Legend:	
1	Access Door Opening
2	All Thread Rods
3	Access Door Cover Panel 16 Gauge (field fab. only)
4	Insulation Pins – Welded to Cover
5	First Layer FyreWrap® Elite® 1.5
6	Second Layer FyreWrap® Elite® 1.5, 1" Overlap
7	Third Layer FyreWrap® Elite® 1.5, 1" Overlap
8	Speed Clips/Washers
9	Cut Edges Sealed With Aluminum Foil Tape
10	Spool pieces for threaded rods (optional field fab. only)
11	Wing Nuts
12	Washers
13	Insulation plate
14	Unfaced FyreWrap blanket or Ceramic fiber gasket, ½" thick
15	Prefabricated access door

Duct Support
Horizontal duct support systems do not require FyreWrap insulation when constructed using a minimum ¼" diameter uninsulated all-thread steel rod and 1½" x 1½" x ⅛" uninsulated steel angle spaced a maximum 60" on center along the length of the duct. A minimum clearance of 1" is required between the protected duct and the steel rod. To increase hanger spacing to 72" on center, ½" all-thread steel rod and 2" x 2" x ¼" steel angle are required. Vertical duct support systems do not require FyreWrap insulation when constructed using minimum 1½" x 1½" x ¼" steel angle brackets located on opposite sides of the duct, on the top and bottom of each floor-ceiling assembly. The supports are attached to the duct with welds. Maximum spacing between vertical supports shall be established by structural calculations in accordance with the applicable code, that are submitted to the building official for approval. See Figure 4 for details. For all other duct support configurations, please contact Unifrax at 716-278-3800 and ask for Fire Protection Application Engineering.

Firestop Systems
Where ducts insulated with FyreWrap Elite 1.5 Duct Insulation pass through fire-rated walls and floors, the penetration opening shall be firestopped to maintain the fire rating of the assembly. Firestop Systems acceptable for use with FyreWrap Elite 1.5 Duct Insulation ASTM E 2336 System at the time of printing are detailed below. See Figures 5-7 for details. Additional firestop systems may be developed and available for use. Contact Unifrax at 716-278-3800 and ask for Fire Protection Application Engineering for additional details and assistance or visit the test lab web site for the latest documentation.

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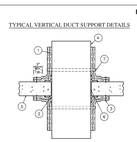
Figure 4. Firestop Installation

FyreWrap® Elite® 1.5 Duct Insulation — FP-625
Typical Duct Support Details

TYPICAL HORIZONTAL DUCT SUPPORT DETAILS

TYPICAL VERTICAL DUCT SUPPORT DETAILS

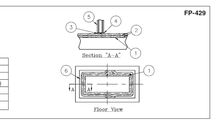


Legend:		
1	Max. Duct Size (HxW)	49" x 49"
2	Steel Threaded Rod	¼" diameter
3	Steel Angle	1½" x 1½" x ¼"
4	Support System Spacing (L)	60"
		2" x 2" x ¼" 72"

Legend:	
1	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers
2	Duct Support Mechanism
3	Mechanical Fasteners & Washers
4	Grease Duct
5	Fire Resistive Concrete Floor/Ceiling Assembly
6	Firestop System
7	Steel Bending and Clips

Figure 5. Firestop Installation

FyreWrap® Elite® 1.5 Duct Insulation — FP-429
Through Penetration Wall System
Intertek (OPL) Design No. UNI/BD 120-19
2-Hour Fire Resistance Rating
F-Rating = 2 Hrs. T-Rating = 2 Hrs.



Legend:	
1	Grease Duct, max. 4900 in² area, 70" max width
2	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers
3	Unfaced FyreWrap® Elite® 1.5 (3)¼" compressed 48PLI
4	STI Spec Seal SSS, ¼" depth
5	Fire-Resistive Gypsum Wall Assembly
6	Annular Space 0" to 3½"

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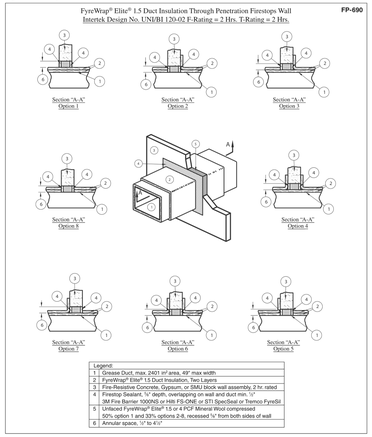
Figure 6. Firestop Installation

FyreWrap® Elite® 1.5 Duct Insulation Through Penetration Firestops Wall — FP-690
Intertek Design No. UNI/BI 120-02 F-Rating = 2 Hrs. T-Rating = 2 Hrs.



Legend:	
1	Grease Duct, max. 2401 in² area, 49" max width
2	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers
3	Fire-Resistive Concrete, Gypsum, or SMU block wall assembly, 2 hr. rated
4	Firestop Sealant, ¼" depth, overlapping on wall and duct min. ½" 3M Fire Barrier 1000NS or Hilti FS-ONE or STI SpecSeal or Tremco FyreSil
5	Unfaced FyreWrap® Elite® 1.5 or 4 PCF Mineral Wool compressed 50% option 1 and 33% options 2-8, recessed ¼" from top side of floor
6	Annular space, ½" to 4½"

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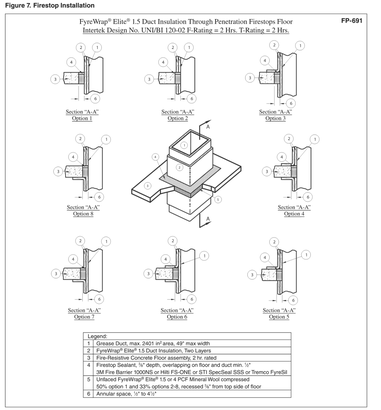
Figure 7. Firestop Installation

FyreWrap® Elite® 1.5 Duct Insulation Through Penetration Firestops Floor — FP-691
Intertek Design No. UNI/BI 120-02 F-Rating = 2 Hrs. T-Rating = 2 Hrs.



Legend:	
1	Grease Duct, max. 2401 in² area, 49" max width
2	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers
3	Fire-Resistive Concrete Floor assembly, 2 hr. rated
4	Firestop Sealant, ¼" depth, overlapping on floor and duct min. ½" 3M Fire Barrier 1000NS or Hilti FS-ONE or STI SpecSeal SSS or Tremco FyreSil
5	Unfaced FyreWrap® Elite® 1.5 or 4 PCF Mineral Wool compressed 50% option 1 and 33% options 2-8, recessed ¼" from top side of floor
6	Annular space, ½" to 4½"

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The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used as specification limits.

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Thermal Products Company, Inc.
4520 S. Berkeley Lake Rd.
Norcross, GA 30071-1639

Phone: 770-662-0456
Fax: 770-242-6210
www.thermalproductsco.com
info@thermalproductsco.com

2 FIRE DUCT WRAP DETAILS
NO SCALE

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DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
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belden@beldeninc.com
25039 / NS

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REGISTERED PROFESSIONAL ENGINEER — MARCUS TM — M31601 — Exp: 12/31/26 — MECHANICAL — STATE OF CALIFORNIA

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SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER:
M402A-02

FOR QUESTIONS, CALL THE
Central CA REGION 91 PHONE: (415) 956 - 2200 EMAIL: reg91@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#7586192

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	MIN CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	H-1	6624 ND-2-PSP-F	CAPTIVEAIRE	8' 0"	600 DEG	I	HEAVY	240	1920	1536			4"	14"	1920	1796	-0.794"	1660	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	H-1	CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	RIGHT	12"x66"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	966 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 108.00" LONG 430 SS VERTICAL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	H-1	Front	108"	16"	6"	MUA	12"	28"		830	0.221"
						MUA	12"	28"		830	0.221"

(2) GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

___' - ___"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____

FOR QUESTIONS, CALL THE CAPTIVE-AIRE SYSTEMS CENTRAL CALIFORNIA OFFICE
Region 91
8 ADRIAN COURT
BURLINGAME, CA 94010
PHONE: (415) 956-2200
EMAIL: REG91@CAPTIVEAIRE.COM

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054894-001

CAPTRATE & KLEEN-GARD FILTERS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

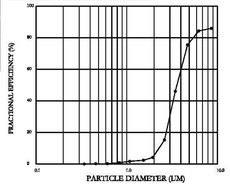
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

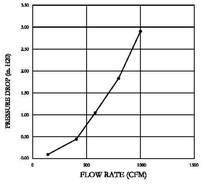
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

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DESCRIPTION	DATE

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Central CA
8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956 - 2200 FAX: 9192275940 EMAIL: reg91@captiveaire.com
www.captiveaire.com

MARS/ELOP FACILITY MCSD - Merced, CA
Merced, CA, 95340

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DRAWN BY: T.Thai
SCALE: 3/4" = 1'-0"
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WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

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CONSULTANT:

BELDEN
CONSULTING ENGINEERS
6700 Koll Center Parkway, Suite 300
Pleasanton, California 94566
phone: (925) 621-5300 fax: (925) 203-5758
belden@beldeninc.com
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SHEET TITLE
CAPTIVEAIRE SHOP DRAWINGS

SHEET NUMBER:
M403-02

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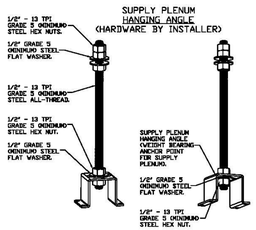
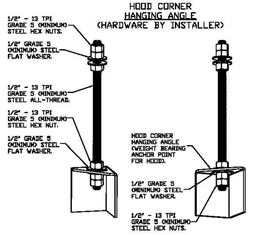


ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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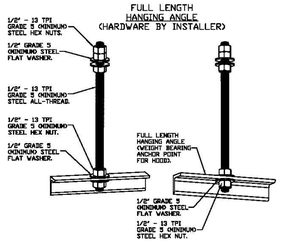

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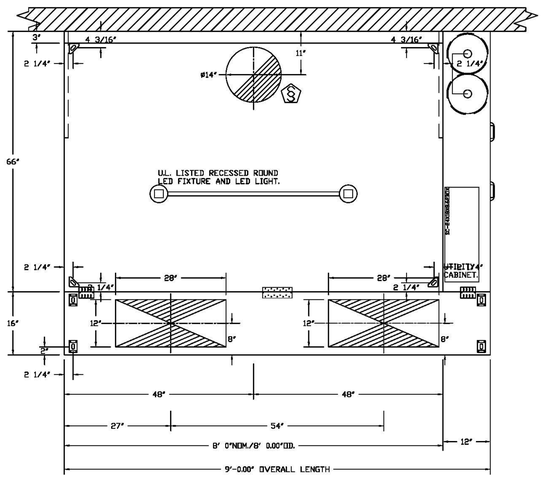
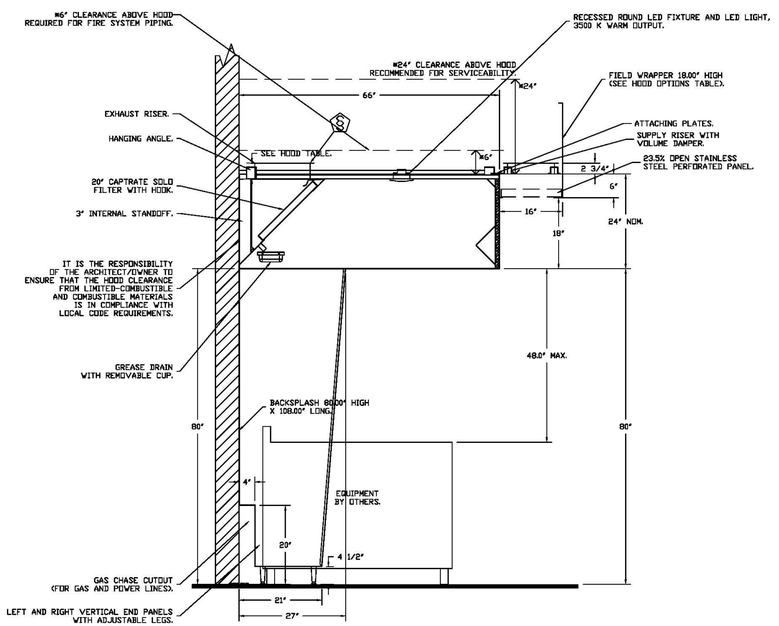


PLAN VIEW - HOOD #1 (H-1)
8' 0.00" LONG 6624ND-2-PSP-F

CLEARANCE TO COMBUSTIBLES

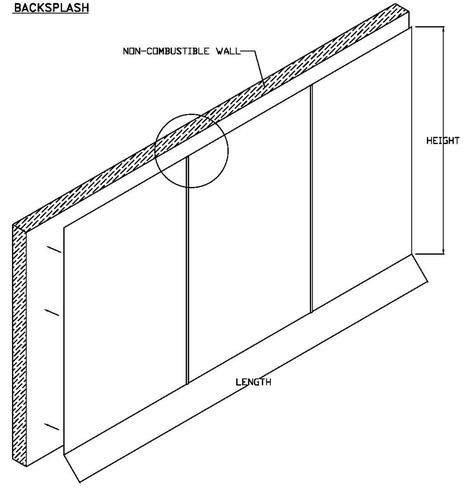
HOODS #	SURFACE	#CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	0"

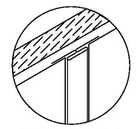
- #0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW - MODEL 6624ND-2-PSP-F HOOD - #1 (H-1)

BACKSPLASH





- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

REVISIONS

	DESCRIPTION	DATE
1		
2		
3		
4		

CAPTIVEAIRE
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www.captiveaire.com

MARS/ELOP FACILITY MCSD - Merced, CA
Merced, CA, 95340

DATE: 6/16/2025

DWG.#: 7586192

DRAWN BY: T.Thai

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

MASTER DRAWING

SHEET NO. 2

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DATE: 01/08/2026

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

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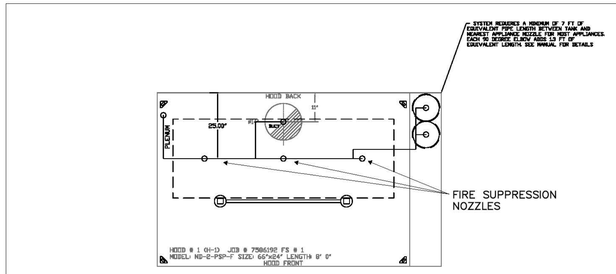
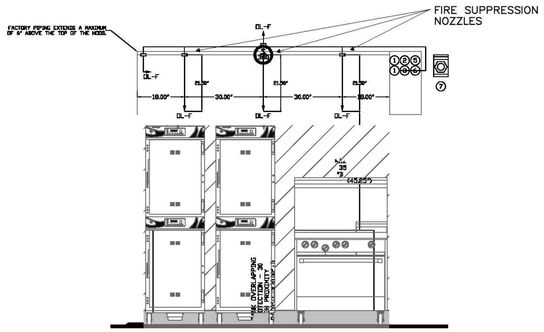
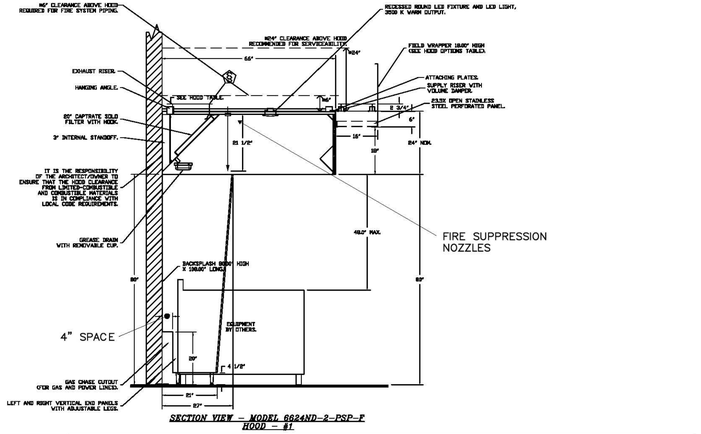






SECTION VIEW – MODEL 6624ND-2-PSP-F
HOOD – #1

NOTES
- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROPS: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 7586192.
JOB NAME: MARS/ELOP FACILITY MCSD – MERCED, CA.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 23. MAXIMUM FP: 40.
HOOD # 1 8' 0.00" LONG x 66" WIDE x 24" HIGH.
RISER # 1 SIZE: 1.4" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

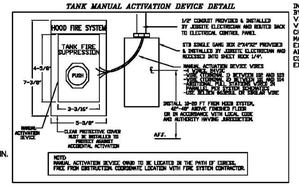
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

TANK MANUAL ACTIVATION DEVICE DETAIL



INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY. ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST. ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES. ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE. LABOR & WAGES WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHERS, ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

FIRE SYSTEM INFORMATION – JOB#7586192

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	FS-1	TANK FS	4.0/4.0	40	23	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

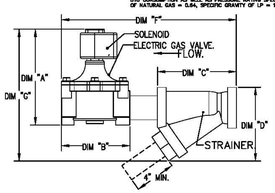
FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	FS-1	0 – 0 – TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 10-FD8201-3D144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. 440D4210D.	1	0
		0 – 0 – 22-10002 QUIK SEAL – 1/2" CLS.	1	0
		0 – 0 – 442R6153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 – 0 – 442R6482 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 – 0 – 79523 1/2" 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VEGA.	1	0
		0 – 0 – 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2"NPT FEMALE CONNECTION, VEGA.	2	0
		0 – 0 – 87-180642-001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-180645-001 HOSE, SECONDARY ACTUATION HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300001-001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87-300020-001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, DNC NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300033-001 3PN CONNECTOR, CANFIELD PART #5.2060-201-0.00A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (OLD VENDOR 302777).	1	0
		0 – 0 – 87-300158-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 9050459PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LB.	6	0
		0 – 0 – 9097260PC PRO PRESS PC611 1/2 PRESS TEE LB.	4	0
		0 – 0 – 986144115 HARDWARE, DATAMBLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A6034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – A314B4 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" NPT HALF UNION USED ON TANK SERVICE PORT.	1	0
		0 – 0 – B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 – 0 – DATAMBLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS-UCTANGBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK-2829958-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 – 16 – 79253 1/2" X 3/8" NPT MALE ADAPTER, VEGA.	3	0
		16 – 16 – DL-F NOZZLE – TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USE2 WITH CHROME-PLATED PIPE).	3	0
		R6 – R6 – QSA-3/8 QUIK SEAL – 3/8" CLS.	3	0
		34 – 34 – A6034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE CO NORMALLY OPEN CONTACT. RED COLOR.	1	0

GAS VALVES AND STRAINERS																
	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER SET
GAS VALVE FOR FS#-1	ELECTRICAL	2"	120 VAC	5" W.C. (12 MB) PSI (2 MB W.C.)	14" W.C. (1/2 PSI (35 MB W.C.)	2,240,000 BTU/HR	1,900,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-18"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	82142B0	4417K66	(SCD)DVA2

ELECTRIC GAS VALVES ONLY SOLENOID ORIENTATION
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
240VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.55}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



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www.captiveaire.com

MARS/ELOP FACILITY MCSD – Merced, CA
Merced, CA, 95340

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EXHAUST FAN INFORMATION – JOB#7586192

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	WEIGHT (LBS)	SONES
1	KEF-1	1	SIF15DD	CAPTIVEAIRE	1920	1.500	1776	TEFC,PREMIUM	1.500	0.8940	3	208	4.5	264	16.2

MUA FAN INFORMATION – JOB#7586192

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MUA-1	1	A1-15D	15MF-1-MOD	A1	–	1660	0.500	1652	ODP,PREMIUM	2.000	0.7430	3	208	6.1	7.7A	15A	365	19.7

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1							
2	MUA-1				YES			

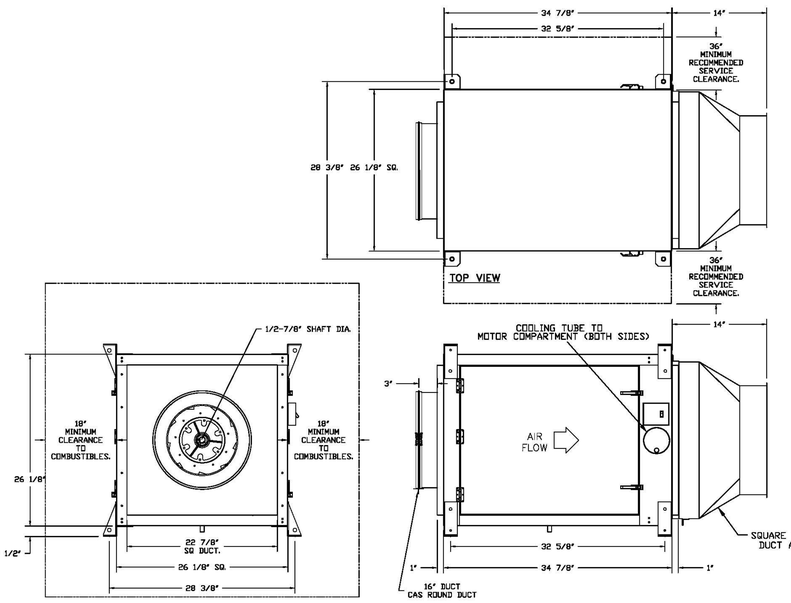
FAN SOUND DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA			OCTAVE BAND SOUND DATA								
			LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	KEF-1	EXHAUST	79.7	16.2496261402599O2	68.2	5	76.5	72.7	77.8	74.7	73.7	73.6	70.6	63.6
2	MUA-1	SUPPLY	82.5	19.7324369086475S7	71	5	79.7	84.7	83.9	79.3	75.6	74.2	72.6	68.6

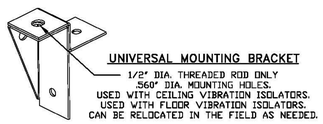
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	SIF – STAINLESS STEEL HOUSING CONSTRUCTION
		1	SIF 15– SS LOW SP STRAIGHT DISCHARGE– SQUARE TO ROUND DISCHARGE ADAPTER
		1	SIF15 – INLET – STANDARD 16" DUCT CONNECTION
		1	SIF – HORIZONTAL OVERHEAD MOUNT – PRE-INSTALLED MOUNTS (11-36)
		1	HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (HSA125)
		1	2 YEAR PARTS WARRANTY
2	MUA-1	1	INSULATION OPTION FOR VBANK FILTER SECTION
		1	A1 INDOOR HANGING OPTION – INCLUDES 2 HSA125 HANGING SPRING ISOLATORS PER UNI-STRUT
		1	2 YEAR PARTS WARRANTY

FAN #1 SIF15DD-HESS-UL762 – EXHAUST FAN (KEF-1)



NOTES:
- DWXXFRISER USED WHEN CONNECTING TO STANDARD DUCT.
- DWXXFRISERS ARE INSTALLED ON THE INTAKE AND/OR DISCHARGE SIDES.



UNIVERSAL MOUNTING BRACKET

1/2" DIA. THREADED ROD ONLY
.560" DIA. MOUNTING HOLES.
USED WITH CEILING VIBRATION ISOLATORS.
USED WITH FLOOR VIBRATION ISOLATORS.
CAN BE RELOCATED IN THE FIELD AS NEEDED.

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- TWO ACCESS DOORS FOR EASY ACCESS.
- BACKWARD INCLINED NON-OVERLOADING WHEELS.
- UL762 LISTING.
- AMCA AIR & SOUND CERTIFIED.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.
- DRAIN MUST BE CONNECTED TO OPTIONAL GREASE BOX OR PIPED TO GREASE RESERVOIR (RECOMMENDED).

OPTIONS

- SIF – STAINLESS STEEL HOUSING CONSTRUCTION.
- SIF 15– SS LOW SP STRAIGHT DISCHARGE– SQUARE TO ROUND DISCHARGE ADAPTER.
- SIF15 – INLET – STANDARD 16" DUCT CONNECTION.
- SIF – HORIZONTAL OVERHEAD MOUNT – PRE-INSTALLED MOUNTS (11-36).
- HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (HSA125).
- 2 YEAR PARTS WARRANTY.

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
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8 Adrian Court, Burlingame, CA, 94010 PHONE: (415) 956 - 2260 FAX: 9192275940 EMAIL: reg1@captiveaire.com
www.captiveaire.com

MARS/ELOP FACILITY MCSD - Merced, CA
Merced, CA, 95340

DATE: 6/16/2025
DWG.#: 7586192
DRAWN BY: T.Thai
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 4

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SHEET NUMBER:
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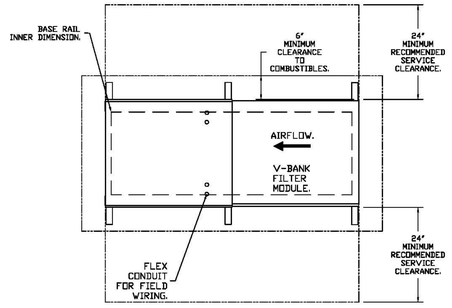
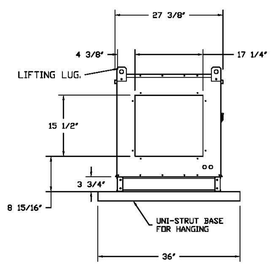
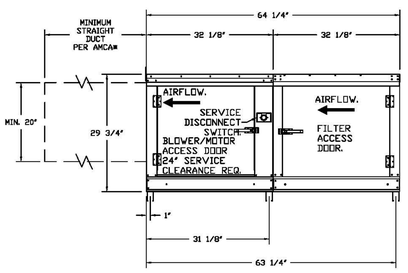
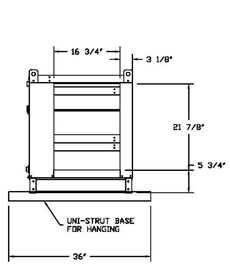
FAN #2 A1-15D - SUPPLY FAN (MUA-1)
1. UNTEMPERED SUPPLY UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN IN SIZE #1 HOUSING.
2. V-BANK TA-13 FILTERS - INDOOR.
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. "INSULATION" FOR V-BANK INTAKE OPTION.
5. INDOOR HANGING CRADLE FOR THE SIZE 1 UNTEMPERED UNIT. 2 HSA125 HANGING ISOLATORS PER UNI-STRUT INCLUDED.
6. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
7. 2 YEAR PARTS WARRANTY.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".









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Merced, CA, 95340

DATE: 6/16/2025

DWG.#: 7586192

DRAWN BY: T.Thai

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

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Additional information including installation manual available at www.captiveaire.com.

FACTORY BUILT DOUBLE WALL GREASE DUCT MODEL DW-2R SPECIFICATION:

FURNISH DOUBLE WALL, FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS, WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIALCOOKING OPERATION. TESTING HAS BEEN EXTENDED TO RECONGNIZE ASTM E2336 AND AC101 DUE TO SIMILAR TESTING CRITERIA. MODELS DW-2R, 3R AND 3Z ARE USED FOR GREASE DUCT APPLICATIONS WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS AND NFPA 96; STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. DOUBLE WALL GREASE DUCTS ARE LISTED FOR A CONTINUOUS INTERNAL TEMPERATURE OF 500 DEGREES F AND INTERMITTENT TEMPERATURES OF 2000 DEGREES F.

THE DUCT SECTIONS SHALL BE CONSTRUCTED OF AN INNER DUCT WALL AND AN OUTER WALL WITH INSULATION IN BETWEEN. THE INNER DUCT WALL SHALL BE CONSTRUCTED OF .036 INCH THINK, 430 TYPE STAINLESS STEEL AND BE AVAILABLE IN DIAMETERS 8" THROUGH 24". THE OUTER WALL SHALL BE CONSTRUCTED OF STAINLESS STEEL AT A MINIMUM OF .024 INCH THICKNESS. THE DUCT, BASED ON MODEL NUMBER, SHALL INCLUDE LAYERS OF SUPER WOOL 607 PLUS INSULATION BETWEEN THE INNER AND OUTER WALL. GREASE DUCT JOINTS SHALL BE HELD TOGETHER BY MEANS OF FORMED V CLAMPS AND SEALED WITH 3M FIRE BARRIER 2000+. THE DUCT WALL ASSEMBLY SHALL BE TESTED AT 3/4" OR ZERO INCH CLEARANCE, ACCORDING TO CLASSIFICATIONS.

CLASSIFICATIONS AND CLEARANCES

UL 2221: STANDARD FOR FIRE RESISTIVE GREASE DUCT ENCLOSURE ASSEMBLIES. CHAPTER 7 OF THIS STANDARD REFERENCES A TEST LABELED INTERNAL FIRE TEST. SECTION 7.1.1 REFERENCES TWO INSTALLATION CONDITIONS, CONDITION A AND CONDITION B. CONDITION A REPRESENTS ALL INSTALLATION CONDITION EXCEPT FOR INSTALLATION WITHIN NON-VENTILATEDCOMBUSTIBLE ENCLOSURES. CONDITION B REPRESENTS INSTALLATION WITHIN A NON-VENTILATED COMBUSTIBLE ENCLOSURE.

MODEL DW-2R IS CLASSIFIED UNDER UL2221 AS AN ALTERNATE TO 2-HR FIRE RESISTIVE SHAFT ENCLOSURES WITH A REDUCED CLEARANCE TO COMBUSTIBLES (SIZES 8" TO 16" DIAMETER). MODEL 2R IS LISTED IN ACCORDANCE WITH THE REQUIREMENTS FOR DUCT ENCLOSURE CONDITION B.

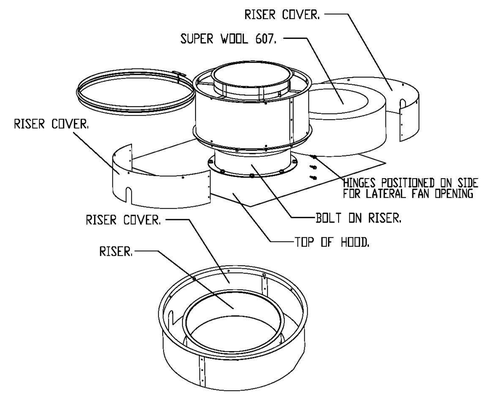
MODEL DW-2R: 3/4" CLEARANCE TO COMBUSTIBLES FROM THE SURFACE OF THE DUCT OUTER SHELL; ZERO INCH CLEARANCE FROM COMBUSTIBLES FROM THE TIP OF THE OUTER V BAND.

DOUBLE WALL GREASE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S "INSTALLATION, OPERATION AND MAINTENANCE MANUAL," ETL LISTING, STATE AND LOCAL CODES. FANS SHALL BE SUPPORTED INDEPENDENTLY FROM THE GREASE DUCT SECTIONS. PROTECT GREASE DUCT FROM TWISTING OR MOVEMENT CAUSED BY FAN TORQUE OR VIBRATION.

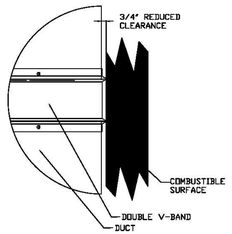
CERTIFICATIONS:

THE DW-2R SERIES HAS BEEN CERTIFIED BY ITS. THIS CERTIFICATION MARK INDICATES THAT THE PRODUCT HAS BEEN TESTED TO AND HAS MET THE MINIUM REQUIREMENTS OF A WIDELY RECOGNIZED (CONSENSUS) U.S. AND CANADIAN PRODUCTS SAFETY STANDARD, THAT THE MANUFACTURING SITE HAS BEEN AUDITED, AND THAT THE APPLICANT HAS AGRRED TO A PROGRAM OF PERIODIC FACTORY FOLLOW-UP INSPECTIONS TO VERIFY CONTINUED PERFORMANCE.

DOUBLE WALL DUCT RISER COVER



REDUCED CLEARANCE DETAIL



FOR QUESTIONS, CALL THE
Central CA
Thomas Thai
PHONE: (415) 956-2200
EMAIL: reg91@captiveaire.com

FOR REFERENCE ONLY
(ONCE DUCT RUN HAS BEEN DETERMINED, ACCURATE DUCT DESIGN WILL BE PRODUCED)

REVISIONS

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1		
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Merced, CA, 95340

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DWG.#: 7586192

DRAWN BY: T.Thai

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

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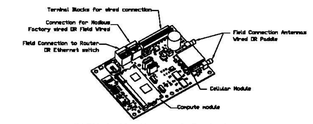
ELECTRICAL PACKAGE – JOB#7586192

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	1.500	208	4.5
				HOOD # 1	1 FAN		MUA-1	SUPPLY	3	2.000	208	6.1



CASlink Monitor and Control

-- Hood control panel to support communications to cloud-based Building Management System.
-- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
-- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
-- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

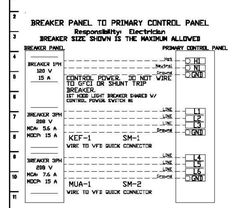
MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Minimum MUA Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fire Condition	MONITOR
CO/GE Fire System	MONITOR
Building Pressure	MONITOR
Fan Status	MONITOR
PCV Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CO/GE Fire System	MONITOR
Building Pressure	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

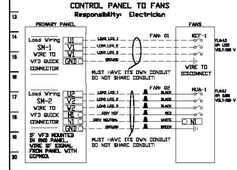
DC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Minimum MUA Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
VFD Faults	MONITOR
PCV Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CO/GE Fire System	MONITOR
Building Pressure	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

JOB NO 7586192 | MODEL NUMBER DCV-1111 | JOB NAME MARS/ELOP FACILITY MCSD - Mer... | DRAWN BY | DATE 6/16/2025 | STANDARD TYPE INSTALL | DRW ID ECP 01-1 | DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4&9&2 SYS-01.

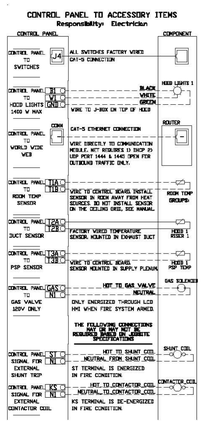
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

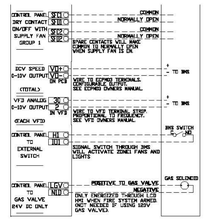


CONTROL PANEL TO FANS
Responsibility: Electrician

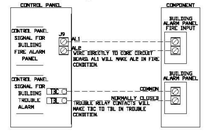


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician



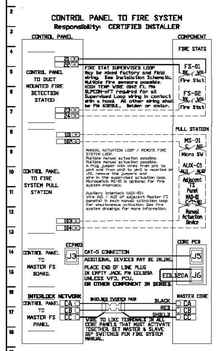


CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



JOB NO 7586192 | MODEL NUMBER DCV-1111 | JOB NAME MARS/ELOP FACILITY MCSD - Mer... | DRAWN BY | DATE 6/16/2025 | STANDARD TYPE INSTALL | DRW ID ECP 01-2 | DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4&9&2 SYS-01.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



JOB NO 7586192 | MODEL NUMBER DCV-1111 | JOB NAME MARS/ELOP FACILITY MCSD - Mer... | DRAWN BY | DATE 6/16/2025 | STANDARD TYPE INSTALL | DRW ID ECP 03-3 | DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4&9&2 SYS-01.

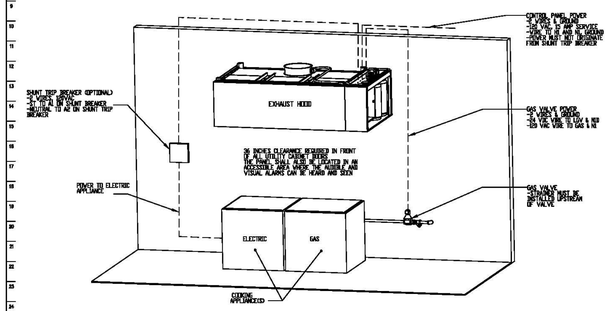
TANK PROTECTION ELECTRICAL DETAIL
02/18/2021 Rev. 2

ELECTRICIAN
1. WIRE MCA CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE SHUNT TRIP BREAKER PER SCHEMATIC
3. WIRE ELECTRIC ACTUATOR SYSTEM PER SCHEMATIC
4. WIRE GAS SHUT-OFF VALVE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N	BREAKER COIL (AT & AB)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
GAS APPLIANCE KILL SWITCH (OPTIONAL)	KT1 & N1	KT1 & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE SERVICE ANGUL AUTOMAN (OPTIONAL)	AUL, AUZ	SOLENOID	120 VAC	< 6 AMPS	120V TO AUL, AUZ TO ANGUL ELECTRIC AUTOMAN, ANGUL SOLENOID TO NEUTRAL
GAS VALVE	LOW V REF OF 24 VAC/ GAS & N OF 24 VAC	RED/BLK/GREEN	24 VAC OR 120 VAC	< 1.0 AMPS	IF 24 VAC = WIRE 1 GROUND RED TO REF LOW TO BLK AND GREEN TO GROUND IF 120 VAC = WIRE 1 GROUND GAS TO REF, N TO BLK AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 7586192 | MODEL NUMBER DCV-1111 | JOB NAME MARS/ELOP FACILITY MCSD - Mer... | DRAWN BY | DATE 6/16/2025 | STANDARD TYPE INSTALL | DRW ID ECP 01-4 | DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4&9&2 SYS-01.

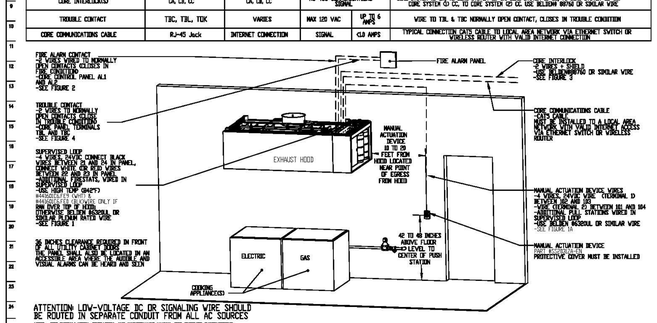
TANK PROTECTION LOW-VOLTAGE DETAIL
10/01/2023 Rev. 3

ALARM CONTRACTOR
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST
*REMOTE FIRESTATED MAY BE REQUIRED DEPENDING ON THE DUCT LAYOUT AND HOOD TEMPERATURE RATING REFERENCE MANUAL FOR LOCATION AND GUIDELINES.

FS-1: MASTER

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	1B, AWG 184 1B2 AWG 183	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 1B2 AND 1B3 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 1B1 AND 1B4 SUPPORT 2ND MANUAL ACTUATION DEVICE IF REQUIRED BY AHJ OR IF MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SERVICING MANUAL OR COVER EXTENSION, SIT-00188
REMOTE FIRESTAT SENSOR(S)	2L AWG 24 2N AWG 24	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE 1 OF 2 SENSOR TERMINALS TO 2L AND 1 OF 2 SENSOR TERMINALS TO 2N OF ANY OF HIGH TEMP SENSORS WITH A THERMISTOR SET TO OPEN AT 135°F (57°C). SENSORS ARE WIRED IN PARALLEL SO ANY SENSOR THAT GOES OPEN WILL SIGNAL ALARM. SEE SENSOR MANUAL FOR PROPER MOUNTING LOCATION. *USE BELDEN 9A22501 OR SIMILAR WIRE *SEE FIGURE 3
FIRE ALARM CONTACT	AL1, AL2	VARIES	30V MAX VALVE	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCKED	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM #3 CA, TO CORE SYSTEM #4 CA, CORE SYSTEM #3 CB, TO CORE SYSTEM #4 CB, CORE SYSTEM #3 CC, TO CORE SYSTEM #4 CC. USE BELDEN 9841 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TBK	VARIES	MAX 125 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	CLS AMPS	TYPICAL CONNECTION CATS CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

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MARS/ELOP FACILITY MCSD - Merced, CA
Merced, CA, 95340

DATE: 6/16/2025

DWG.#: 7586192

DRAWN BY: T.Thai

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

MASTER DRAWING

SHEET NO. 7

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DATE: 01/08/2026

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

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PHASE
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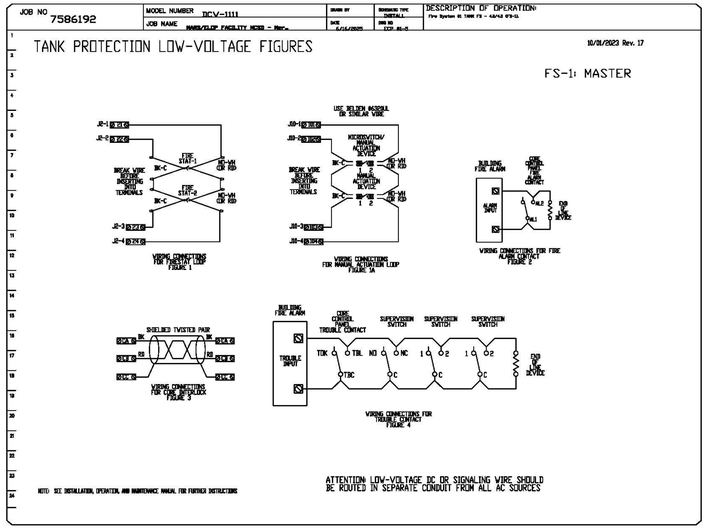
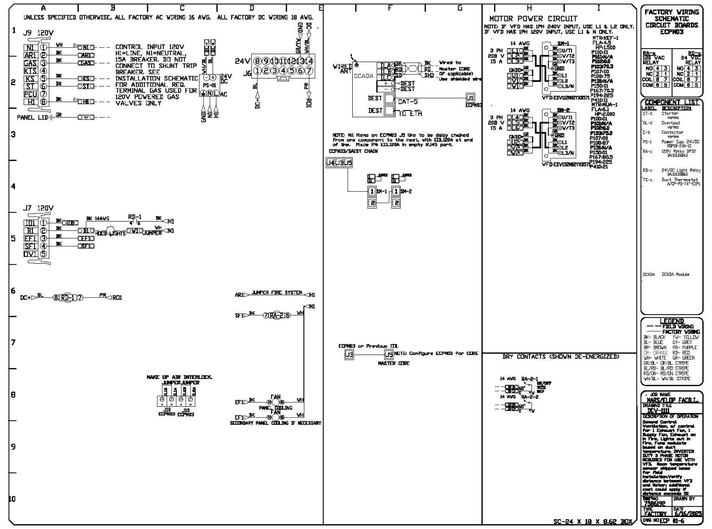
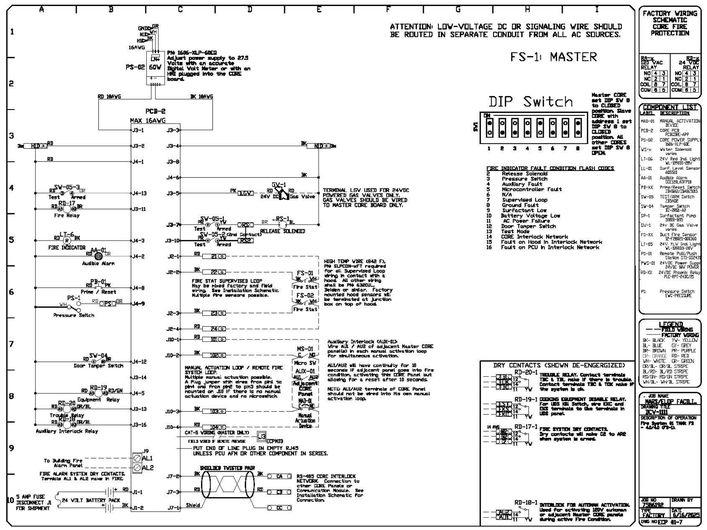
SHEET TITLE
CAPTIVEAIRE SHOP DRAWINGS

SHEET NUMBER:
M409-02

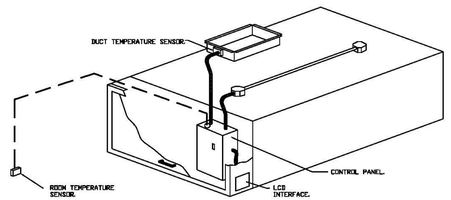






DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS 'DYNAMIC', THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS 'STATIC', FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

REVISIONS

	DESCRIPTION	DATE
1		
2		
3		
4		
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MARS/ELOP FACILITY MCSD - Merced, CA
Merced, CA, 95340

DATE: 6/16/2025

DWG.#: 7586192

DRAWN BY: T.Thai

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

MASTER DRAWING

SHEET NO. 8

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MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

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SHEET NUMBER:

M410-02

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A. GENERAL INFORMATION

01	Project Location (city)	MERCED	04	Total Conditioned Floor Area	14000
02	Climate Zone	12	05	Total Unconditioned Floor Area	4000
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	2

● Gymnasium ● School or Classroom

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☒ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

Selections made in the Certificates of Acceptance Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-1	1	Multi-zone			☐
HP-2	1	Multi-zone			☐

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1	Variable Refrigerant Flow (with heat recovery)		Yes	283	283	0	205	251	283	205
HP-2	Variable Refrigerant Flow (with heat recovery)		Yes	250	250	0	177	251	250	177

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1		47 °Fdb/ 43 °Fwb OSA	COP		3.4	EER IEER	9.3 12.5	10.5 19.3
HP-2		47 °Fdb/ 43 °Fwb OSA	COP		3.6	EER IEER	10.4 13.7	11.6 19.2

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	FCU-1-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	190	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
FCU-1-1	Other (Transfer, VAV box)	1	Energy Recovery 0.50 <= ERR > 0.55	100			0.417	Manufacturer provided		0.66
			Airflow control devices required for space pressurization control	100						
			Filter (any MERV value)	100						
			Fully ducted, or Systems that maintain pressure differential between rooms	100						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.66

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	FCU-2-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	190	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
FCU-2-1	Other (Transfer, VAV box)	1	Energy Recovery 0.50 <= ERR > 0.55	100			0.417	Manufacturer provided		0.66
			Airflow control devices required for space pressurization control	100						
			Filter (any MERV value)	100						
			Fully ducted, or Systems that maintain pressure differential between rooms	100						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.66

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	FCU-3-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	190	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
FCU-3-1	Other (Transfer, VAV box)	1	Energy Recovery 0.50 <= ERR > 0.55	100			0.417	Manufacturer provided		0.66
			Airflow control devices required for space pressurization control	100						
			Filter (any MERV value)	100						
			Fully ducted, or Systems that maintain pressure differential between rooms	100						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.66

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	FCU-4-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	190	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
FCU-4-1	Other (Transfer, VAV box)	1	Airflow control devices required for space pressurization control	100			0.417	Manufacturer provided		0.66
			Energy Recovery 0.50 <= ERR > 0.55	100						
			Filter (any MERV value)	100						
			Fully ducted, or Systems that maintain pressure differential between rooms	100						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.66

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	FCU-5-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	190	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
FCU-5-1	Other (Transfer, VAV box)	1	Airflow control devices required for space pressurization control	100			0.417	Manufacturer provided		0.66
			Energy Recovery 0.50 <= ERR > 0.55	100						
			Filter (any MERV value)	100						
			Fully ducted, or Systems that maintain pressure differential between rooms	100						
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[3]		Fan System Electrical Input Power (kW)		0.66

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
M501-02

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	FCU-6-2, FCU-7-2, FCU-8-2, FCU-9-2	Quantity	4	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	190	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
FCU-6-2, FCU-7-2, FCU-8-2, FCU-9-2	Other (Transfer, VAV box)	1	Airflow control devices required for space pressurization control			100				0.417	Manufacturer provided				0.66
			Energy Recovery 0.50 <= ERR > 0.55			100									
			Filter (any MERV value)			100									
			Fully ducted, or Systems that maintain pressure differential between rooms			100									
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]				Fan System Electrical Input Power (kW)		0.66

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3& 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:\24erefnolink\/160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☒	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Mandatory Pipe Insulation

02	03	04	05	06	07	08	09	10	10a
System Type	Nominal Pipe Diameter (in)	Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hr per ft^2 per °F)	Insulation Mean Rating Temp. (°F)	Min. Insulation Thickness Required per Table 120.3-A (in)	Min. Insulation Thickness Required per 120.3(c)2 & 160.3(c)1dii (in)	Insulation Thickness per Design (in)	Exception to 120.3 & 160.3(c) (if applicable)	Serving Res or NR Space?
Space cooling	<1	40-60	0.21 - 0.27	75	0.5		0.5	No exception taken	Nonresidential
Space cooling	1 to <1.5	40-60	0.21 - 0.27	75	0.5		0.5	No exception taken	Nonresidential
Space heating	<1	141-200	0.25 - 0.29	125	1.5		1.5	No exception taken	Nonresidential
Space heating	1 to <1.5	141-200	0.25 - 0.29	125	1.5		1.5	No exception taken	Nonresidential

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
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.	
NRCA-MCH-04 - Air Distribution Duct Leakage	
NRCA-MCH-05-A - Air Economizer Controls	FCU-1-1; FCU-2-1; FCU-3-1; FCU-4-1; FCU-5-1; FCU-6-2, FCU-7-2, FCU-8-2, FCU-9-2
NRCA-MCH-11-A Automatic Demand Shed Controls	HP-1, HP-2
NRCA-MCH-16-A Supply Air Temperature Reset Controls	HP-1, HP-2
NRCA-MCH-18-A Energy Management Control Systems	HP-1, HP-2

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
FCU-1-1			1,600	392	25	NA: Serving space not cooled and heated to <60 F				
FCU-2-1			1,600	472	30	NA: Serving space not cooled and heated to <60 F				
FCU-3-1			1,600	75	5	NA: Serving space not cooled and heated to <60 F				
FCU-4-1			1,600	210	13	NA: Serving space not cooled and heated to <60 F				
FCU-5-1			1,600	255	16	NA: Serving space not cooled and heated to <60 F				
FCU-6-2, FCU-7-2, FCU-8-2, FCU-9-2			1,600	941	59	NA: Serving space not cooled and heated to <60 F				

L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	Supply	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Exposed Ductwork located in occupied space	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-4.2	Duct Insulation R-value
22	No	Ductwork Existing To Remain
23	No	Duct System Connected To Altered Space Conditioning System

The answers to the questions below apply to the following duct systems:	Return, Exhaust	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		MECHANICAL SCHEDULES
Cooling Equipment Efficiency per 110.1		MECHANICAL SCHEDULES
Furnace Standby Loss Control per 110.2(d)		N/A
Duct Insulation per 120.4		Schedules
Pipe Insulation per 120.3(b)		Schedules
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A
The air duct and plenum system is designed per 120.4(a)-(f)		Specs & Abbreviations
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		Schedules

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
FCU-1-1	Embedded Fan <5HP or <4.1kW	
FCU-2-1	Embedded Fan <5HP or <4.1kW	
FCU-3-1	Embedded Fan <5HP or <4.1kW	
FCU-4-1	Embedded Fan <5HP or <4.1kW	
FCU-5-1	Embedded Fan <5HP or <4.1kW	
FCU-6-2, FCU-7-2, FCU-8-2, FCU-9-2	Embedded Fan <5HP or <4.1kW	

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
HP-1, HP-2	Multi-zone w/ DDC to zone	<= 25,000 ft^2	EMCS	EMCS	NA: Serves < 25k ft^2	EMCS	Included	NA: Auto-closing doors	Provided

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-0.0	Duct Insulation R-value
22	No	Ductwork Existing To Remain
23	No	Duct System Connected To Altered Space Conditioning System

M. COOLING TOWERS

This section does not apply to this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Rae Korsboe	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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:	Marcus Tam	Responsible Designer Signature:	
Company:	Belden Consulting Engineers	Date Signed:	06-25-2025
Address:	6700 Koll Center Parkway, Suite 300	License:	M31601
City/State/Zip:	Pleasanton, CA 94566	Phone:	925-621-5330

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
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WALNUT CREEK, CA 94598
T: (925) 979-5178
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STATE OF CALIFORNIA

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PROJECT:
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REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
M502-02

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A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Total Conditioned Floor Area	1384
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
RTU	1	Single zone	New/ Addition		☐

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU	PTAC/ PTHP	PTHP newly constructed or newly conditioned space	NA: Load Controls	30.57	56.5	0	37.45	45.38	30.29	54.46

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2] It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry system Equipment Efficiency (Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP) only)

01	02	03	04	05	06	07
	Heating Mode			Cooling Mode		
Name or Item Tag	Rated Output Capacity (kBtu/h)	Minimum COP Required per Table 110.2-E	Design COP	Rated Output Capacity (kBtu/h)	Minimum EER Required per Tables 110.2-E	Design EER
RTU	56500	3	3.8	60500	9.5	11.8

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	153	Economizer	NA: Special OA filtration
01	02	03	04			05		06	07	08	09			10	11

						Allowance		Design			
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
SF	Supply	1	Base Allowance for system serving spaces <=6 floors away	100		464		Manufacturer provided		0.09
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		278				
			Hydronic/DX cooling coil or heat pump coil	100		278				
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)			Fan System Allowance (kW)[3]		1.02	Fan System Electrical Output (kW)	0.09

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. Na more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01 Fan System Name	02 Qty	03 Hours of Operation per Year	04 Design Supply Airflow Rate	05 Outdoor Airflow	06 % Outdoor Air at Full Design Airflow	07 Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	08 Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	09 Type Of Heat Recovery Rating	10 Required Recovery Ratio	11 Energy Recovery Bypass

Fan Energy Index (FEI)

01 Name or Item Tag	02 FEI Exception	03 FEI
RTU	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01 System Name	02 System Zoning	03 Conditioned Floor Area Being Served (ft²)	04 Thermostats 110.2(b) & (c)[3], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	05 Shut-Off Controls 120.2(e) & 160.3(a)2D	06 Isolation Zone Controls 120.2(g) & 160.3(a)2F	07 Demand Response 110.12 120.2(b) & 160.3(a)2B	08 Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	09 Window Interlocks per 140.4(n) & 170.2(c)4D
RTU	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:\24refnolink\7160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06		07
System Name	RTU	System Design OA CFM Airflow[1]	208	System Design Transfer Air CFM	0		Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2] Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)[3] 160.2(c)5D 160.2(c)5E 160.2(c)5D
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min CFM	Provided per Design CFM	
Zone 1	All others	1384			207.6	0	0	DCV: NA: Not required per 5120.1(d)3 Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				208	18	Ventilation for this System Complies?	Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.

J. VENTILATION AND INDOOR AIR QUALITY

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	RTU	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18		All ductwork is an extension of an existing duct system	
19		Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-8	Duct Insulation R-value	
22			
23			

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
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.	Carrier 50FCQA06;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Carrier 50FCQA06;
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50FCQA06;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50FCQA06;
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50FCQA06;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

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DATE: 01/08/2026

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BELDEN CONSULTING ENGINEERS
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Pleasanton, California 94566
phone: (925) 621-5300 fax: (925) 203-5758
belden@beldeninc.com
25039 / NS

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER MARCUS TM BELDEN M31601 Exp: 12/31/26 MECHANICAL STATE OF CALIFORNIA

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
M503-02

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: MARS/ELO-P FACILITY MCSD	**Report Page:**	**(Page 10 of 11)**
	Date Prepared:	6/13/2025

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

		01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes		Plan sheet or construction document location
			M-Sheets

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: MARS/ELO-P FACILITY MCSD	**Report Page:**	**(Page 11 of 11)**
Project Address: 26th St.	**Date Prepared:**	6/13/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Belden Consulting Engineers	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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: Marcus Tam, P.E.	Responsible Designer Signature:
Company: Belden Consulting Engineers	Date Signed: 2025-06-13
Address: 6700 Koll Center Pkwy, Suite 300	License: M31601
City/State/Zip: Pleasanton CA 94566	Phone: 925-621-5300

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REGISTERED PROFESSIONAL ENGINEER
MARCUS TAM
M31601
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STATE OF CALIFORNIA

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
M504-02

Covered Process Mandatory Measures:

120.6(f) MANDATORY REQUIREMENTS FOR ELEVATORS

1. THE LIGHT POWER DENSITY FOR THE LUMINAIRES INSIDE THE ELEVATOR CAB SHALL BE NO GREATER THAN 0.6 WATTS PER SQUARE FOOT.

3. WHEN STOPPED AND UNOCCUPIED WITH DOORS CLOSED FOR OVER 15 MINUTES, THE CAB INTERIOR LIGHTING AND VENTILATION FANS SHALL BE SWITCHED OFF.
4. LIGHTING AND VENTILATION SHALL REMAIN OPERATIONAL IN THE EVENT THAT THE ELEVATOR CABIN GETS STUCK WHEN PASSENGERS ARE IN THE CABIN.
5. BEFORE AN OCCUPANCY PERMIT IS GRANTED FOR ELEVATORS, A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY THAT CERTIFIES THAT THE EQUIPMENT AND SYSTEMS MEET THE ACCEPTANCE REQUIREMENTS SPECIFIED IN NONRESIDENTIAL REFERENCE APPENDICES NA7.14.

This form is used to document any process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6/ 160.7 or prescriptive requirements in 140.9. This compliance document is used for newly constructed, addition and alteration projects.

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Total Conditioned Floor Area	14000
02	Climate Zone	12	05	Total Unconditioned Floor Area	4000
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	2

● All Other Occupancies

B. PROJECT SCOPE

This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9.

My project consists of: (check all that apply):

01	02
☐ Refrigerated Spaces <3,000 ft² Total (no Title 24, Pt6 requirements)	☐ Escalator & Moving Walkway Speed Controls (mandatory 120.6(g))
☐ Refrigerated Spaces >=3,000 ft² Total (mandatory 120.6(a))	☐ Computer Rooms (mandatory 120.6(j) and prescriptive 140.9(a))[1]
☐ Food /Beverage Stores >8,000 ft² cfa (mandatory 120.6(b))	☒ Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b))[1]
☐ Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory 120.6(c))	☐ Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c))[1]
☐ Newly Installed Process Boilers (mandatory 120.6(d))	☐ Pool/Spa (mandatory 110..4 / 160.7)
☐ Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e))	☐ Controlled Environment Horticulture (mandatory 120.6(h))
☒ Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7)	☐ New Steam Traps (mandatory 120.6(i))

[1] *FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Refrigerated Warehouse / Space 120.6(a) (See Table F)	Commercial Refrigeration 120.6(b) (See Table G)	Parking Garage Exhaust 120.6(c) (See Table H)	Process Boilers 120.6(d) (See Table I)	Compressed Air Systems 120.6(e) (See Table J)	Elevators 120.6(f) / 160.7 (See Table K)	Escalators & Moving Walkways 120.6(g) (See Table L)	Computer Rooms 140.9(a) (See Table M)	Commercial Kitchens 140.9(b) (See Table N)	Laboratory/ Factory Exhaust 140.9(c) (See Table O)	Controlled Environment Horticulture 120.6(h) (See Table P)	Steam Traps 120.6(i) (See Table Q)	Multifamily Pool/Spa 160.7 (See Table R)	**Compliance Results**
					Yes			Yes					COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. REFRIGERATED WAREHOUSES/SPACES

This section does not apply to this project.

G. COMMERCIAL REFRIGERATION

This section does not apply to this project.

H. ENCLOSED PARKING GARAGE EXHAUST

This section does not apply to this project.

I. PROCESS BOILER

This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS

This section does not apply to this project.

K. ELEVATOR LIGHTING AND VENTILATION

The table includes all elevator lighting and ventilation systems within the scope of the permit application to show compliance with the requirements of 120.6(f) / 160.7

01	02	03	04	05	06	07	08
Lighting 120.6(f)1 & 120.6(f)3 / 160.7							
Elevator Name or Item Tag	Elevator Area (ft²)	Fixture Name or Item Tag	Watts per Fixture	Number of Fixtures	Power per Design (W)	Maximum Power Allowed[1]	Controls
Sheet EV0.0-02	79	K	21.3	1	21.3		Occupancy sensors provided
		Total Design Watts			21.3	47.4	
09	10	11	12	13	14	15	
Ventilation 120.6(f)2 & 120.6(f)3 / 160.7							
Name or Item Tag	Conditioned Cab?	Fan Power (Watts)	Design Airflow (CFM)	Design Watts per CFM	Maximum Watts per CFM Allowed	Controls	
Sheet EV0.0-02	Yes						

[1] *FOOTNOTE: 0.6 watts per ft² allowed per 120.6(f)1. Interior signal lighting and display lighting not included in power density calculation.*

16	Indicate where in the construction documents these requirements can be verified	EV0.0-02

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS

This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY

This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in 140.9(b).

Kitchen Ventilation 140.9(b)2

01	☐	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)
	Requirements	
02	Replacement Air to Hood Compliance Method 140.9(b)1A Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate	
03	Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of: NA: Make up air is not mechanically cooled or heated	
04	Location that is supplying transfer air:	
05	The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B: NA: Not a kitchen/ dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm	

Kitchen Exhaust: Airflow Rate 140.9(b)1B

01	Kitchen Name or Item Tag	A200-02	Compliance Method per 140.9(b)1B		NA: 75% of total Type I and Type II exhaust replacement air is transfer air that would otherwise be exhausted	
02	03	04	05	06	07	08
Name or Item Tag	Hood Type[1]	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate CFM	Max Hood Exhaust Rate Allowed CFM
M003-02 to M410-02	Type I				1920	

[1]*FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B*

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS

This section does not apply to this project.

P. CONTROLLED ENVIRONMENT HORTICULTURE

This section does not apply to this project.

Q. STEAM TRAPS IN INDUSTRIAL FACILITIES

This section does not apply to this project.

R. Pool & SPAs

This section does not apply to this project.

S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-PRC-01-E - Covered Process

T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-PRC-02-F Kitchen Exhaust	A200-02
NRCA-PRC-12-F Elevator Lighting & Ventilation Controls	Sheet EV0.0-02

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Noel Sumalpong	Documentation Author Signature:
Company: Belden Consulting Engineers	Signature Date: 2025-07-10
Address: 6700 Koll Center Parkway Ste. 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Pleasanton, CA 94566	Phone: (925) 621-5300

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: Marcus Lam, P.E.	Responsible Designer Signature:
Company: Belden Consulting Engineers	Date Signed: 2025-07-10
Address: 6700 Koll Center Parkway Ste. 300	License: M31601
City/State/Zip: Pleasanton, CA 94566	Phone: (925) 621-5300

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ARCHITECT'S SEAL:

CONSULTANT:

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PROJECT:

MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

TITLE 24

SHEET NUMBER:

M505-02

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MARS/ ELO-P FACILITY MCSD - 26TH ST.	Report Page:	(Page 1 of 14)
Project Address: 2600 K St.	Date Prepared:	10/17/2025

This document is used to demonstrate compliance with mandatory requirements in 110.8(g) and 120.7(b)/ 160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and 141.0(b)1/ 180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/ 170.2 for newly constructed buildings, and 141.0/ 180.1/ 180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

A. GENERAL INFORMATION

01	Project Location (city)	Merced	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	95348	06	Total Conditioned Floor Area (ft²)	9528
03	Climate Zone	12	07	Total Unconditioned Floor Area (ft²)	0
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 100.0(f).	08	☐	Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.[1]	

● Auditorium ● Office

[1] FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in 140.3(c)/ 170.2(b). Compliance with 140.3(c)/ 170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/ 170.2 and 141.0(a)1/ 180.1 and 141.0(b)1 and 2/ 180.2 for additions and alterations.

My project consists of (check all that apply)			Component Types					
01			02					
☒	New Construction or Newly Conditioned Space	☒	Roof	☒	Walls	☐	Exterior Opaque Doors
☐	One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☒	Floors	☒	Fenestration/ Glazed Doors[1]
☐	Addition of conditioned space	☐	Roof	☐	Walls	☐	Exterior Opaque Doors
☐	One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☐	Floors	☐	Fenestration/ Glazed Doors[1]
☐	Addition is <=700 ft²						
☐	Addition is >700 ft²						
☐	Alteration of conditioned space	☐	Roof Assembly	☐	Walls		
☐	One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐	Roofing Material[2]	☐	Floors	☐	Fenestration

STATE OF CALIFORNIA
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B. PROJECT SCOPE

[1]FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.
[2]Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes	Yes		Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance for prescriptive roof assembly requirements in 140.3(a)1B/ 170.2(a)1B for new construction, 141.0(a)/ 180.1 for additions, or 141.0(b)2Bii/ 180.2 for alterations,

01	Indicate roof types included in the project:	☒ Framed	☐ Framed-Multifamily	☐ SIPS	☐ Span Deck & Concrete	☐ Metal Panels	☐ Metal Building

Framed Roof Assemblies

01	☒	Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation[1]		
02	03	04	05	06

STATE OF CALIFORNIA
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F. ROOF ASSEMBLY SCHEDULE

Framed Roof Assemblies

Tag/Plan Detail ID	Name/Description	Status	Exception to Roof Insulation Requirements in §141.0(b)2Biii (Alts. Only)	Occupancy Type
R-38 Metal Roof	Roof	New		Nonresidential/ Relocatable 1 CZ

07	08	09	10	11	12	13	14	15		16
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design[1]	Continuous Insulation per Design[2]	Thermal Performance Unit	Required Thermal Performance[3]	U-factor per Design		Net Area[4] ft²
								per JA4		
Roof	JA4 Tables	Metal		38	0	U-factor	0.034	per Software/ Other	0.03	3600

[1]FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.
[2] For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.
[3] If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.
[4] Roof area minus any fenestration/ skylight area

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs

01	02	03	04	05
Roof Type	Total Area of Roof Type (ft²)	Area-weighted U-factor for Roof Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Framed	3600	0.034	0.03	
Total for all Roof Types:	**3600**	**0.034**	**0.03**	**COMPLIES**

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G. RATED ROOFING MATERIAL (COOL ROOF)

This table demonstrates compliance with prescriptive roof material requirements in 140.3(a)1A/ 170.2(a)1A for new construction, 141.0(a)/ 180.1 for additions, and 141.0(b)2B/ 180.2 for alterations. Roof recovers and replacements must also document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

01	02	03	04	05	06	07	08			09		10
Tag/Plan Detail ID	Name/ Description/ Location	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance			Designed Material Performance		U-factor / R-value of Assembly
R-38 Metal Roof	Roof	New	Nonresidential	Low slope	To Be Determined	Aged solar reflectance and thermal emittance	Reflectance	0.63		Reflectance[1]	0.63	
							Emittance	0.75		Emittance	0.75	
							SRI			SRI		

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/ 170.2(a) for new constructions, 141.0(a)/ 180.1 for additions and 141.0(b)1B/ 180.2 for alterations.

01	Indicate wall types included in the project:[1]	☒ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Framed Walls

01	☐	Calculate Area-Weighted Average U-factor for Metal Framed Walls[1]
02	☐	Include Wood Framed Walls in Area-Weighted Average U-factor Calculation[1]

03	04	05	06	07	08	09	10	11	12		13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
									per JA4		
NW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	247.7

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H. WALL ASSEMBLY SCHEDULE

03	04	05	06	07	08	09	10	11	12		13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
									per JA4		
NE Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	121.3
									per JA4		
SW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	145.8
									per JA4		
NW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	301.9
									per JA4		
SW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	145.8
									per JA4		
NE Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	283.5
									per JA4		
NW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	200.6

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H. WALL ASSEMBLY SCHEDULE

03	04	05	06	07	08	09	10	11	12		13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
									per JA4		
NE Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	412
									per JA4		
SW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	330.3
									per JA4		
NW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	512.1
									per JA4		
NE Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	143.9
									per JA4		
NE Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	1121.3
									per JA4		
SE Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	1703.4

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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
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H. WALL ASSEMBLY SCHEDULE

03	04	05	06	07	08	09	10	11	12		13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
									per JA4		
SW Exterior Wall	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	19	12	U-factor	0.055	per Software/ Other	0.055	1121.3

[1]FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPS, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.
[2] If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per 141.0(b)1B.
[3] Wall area minus any fenestration area

Area-Weighted Average U-factor Compliance Calculation for Metal Framed Walls

01	02	03	04	05
Wall Type	Total Area of Wall Type (ft²)	Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Metal Framed	6790.9	0.055	0.055	COMPLIES

I. FLOOR ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive floor assembly requirements in 140.3(a)4/ 170.2(a)5 for new construction, 141.0(a)/ 180.1 for additions, or mandatory floor assembly requirements in 141.0(b)1C/ 180.2 for alterations.

01	Indicate floor types included in the project:[1]	☒ Framed	☐ SIPS (new only)	☐ Raised Mass	☐ Heated Slab-on-grade (new only)

[1] FOOTNOTES: Floor types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Framed Floors

01	☒	Include Framed Floors in Area-Weighted Average U-factor Calculation[1]

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

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I. FLOOR ASSEMBLY SCHEDULE

02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Crawlspace	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance[2]	U-factor per Design		Area ft²
									per JA4		
Raised Floor	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Yes	Wood	R-19	R-0	U-factor	0.071	per Software/ Other	0.037	1083
									per JA4		
Raised Floor	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Yes	Wood	R-19	R-0	U-factor	0.071	per Software/ Other	0.037	1120
									per JA4		
Raised Floor	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Yes	Wood	R-19	R-0	U-factor	0.071	per Software/ Other	0.037	519
									per JA4		
Raised Floor	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Yes	Wood	R-19	R-0	U-factor	0.071	per Software/ Other	0.037	1542
									per JA4		
Raised Floor	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Yes	Wood	R-19	R-0	U-factor	0.071	per Software/ Other	0.037	1664

[1]FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Framed floors are combined with SIPs floors. The area-weighted compliance option is not available for assemblies demonstrating compliance with R-values.
[2] If "R-value" is shown in cell 09 as the Thermal Performance Unit, the R-value shown here is for cavity insulation.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
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I. FLOOR ASSEMBLY SCHEDULE

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs Floor Types

01	02	03	04	05
Floor Type	Total Area of Floor Type (ft²)	Area-weighted U-factor for Floor Type		Compliance Results Using Area-Weighted Calculation Option
		Required	Designed	
Total for all Floor Types:	5928	0.071	0.037	COMPLIES

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(a)5/ 170.2(a)3 for new constructions, 141.0(a)/ 180.1 for additions, or 141.0(b)2A/ 180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☐ Vertical (alterations)	☒ Vertical (new)	☐ Skylights	☐ Glazed Doors (new only)

[1] FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area (New Construction & Additions Only)

01	02	03	04	05
Elevation Item Tag/ Description	Orientation (Azimuth)[1]	Gross Exterior Wall Area[2] (ft²)	Display Perimeter Length[2] (ft)	Vertical Fenestration Area per Design[3] (ft²)
North	North Facing	2409.8	0	327.8
East	East Facing	1966.3	0	262.9
South	South Facing	2038.6	0	295.4
West	West Facing	1727.9	0	465.6

06	Maximum Allowed Vertical Fenestration (ft²)- All Orientations	3257	07	Total Vertical Fenestration (ft²) per design- All Orientations: 1351.7
08	Maximum Allowed Vertical Fenestration (ft²)- West Facing	691.2	09	Total Vertical Fenestration (ft²) per design- West Facing: 465.6

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DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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MECHANICAL
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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
M506-02

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area (New Construction & Additions Only)

01	02	03	04	05
Elevation Item Tag/ Description	Orientation (Azimuth)[1]	Gross Exterior Wall Area[2] (ft²)	Display Perimeter Length[2] (ft)	Vertical Fenestration Area per Design[3] (ft²)

[1]FOOTNOTES: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the Nonresidential Compliance Manual for visual reference.
[2]Do not include demising walls per 140.3(a)5 .
[3] Includes glazed door fenestration area .

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	☒	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☒	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☒	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	91.8
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	210.3
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	65.4
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	32.5
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	98.1
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	64.9
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	262.9
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	262.9
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	
Window	Fixed window	Nonresidential/ Relocatable 1 CZ: : New			NFRC Certified	U-factor (max)	0.34	0.26	262.9
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.42	0.48	

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
FCU-1-1	Embedded Fan <5HP or <4.1kW	
FCU-2-1	Embedded Fan <5HP or <4.1kW	
FCU-3-1	Embedded Fan <5HP or <4.1kW	
FCU-4-1	Embedded Fan <5HP or <4.1kW	
FCU-5-1	Embedded Fan <5HP or <4.1kW	
FCU-6-2, FCU-7-2, FCU-8-2, FCU-9-2	Embedded Fan <5HP or <4.1kW	

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
HP-1, HP-2	Multi-zone w/ DDC to zone	<= 25,000 ft²	EMCS	EMCS	NA: Serves < 25k ft²	EMCS	Included	NA: Auto-closing doors	Provided

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-ENV-02-F must be submitted for all new, added or altered site built fenestration.	Fenestration;

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Noel Sumalpong	Documentation Author Signature:
Company: Belden Consulting Engineers	Signature Date: 2025-10-17
Address: 6700 Koll Center Parkway Ste. 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Pleasanton, CA 94566	Phone: (925) 621-5300

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:	Responsible Designer Signature:
Company: YC+D Architecture	Date Signed: 2025-10-17
Address: 712 Bancroft Road #297	License:
City/State/Zip: Walnut Creek CA 94598	Phone: (925) 979-5178

12/18/2025 7:20:35 PM © YC+D. 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

CONSULTANT:

BELDEN
CONSULTING ENGINEERS
6700 Koll Center Parkway, Suite 300
Pleasanton, California 94566
phone: (925) 621-5300 fax: (925) 203-5758
belden@beldeninc.com
25039 / NS

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
MARCUS TM
M31601
Exp: 12/31/26
MECHANICAL
STATE OF CALIFORNIA

THIS DRAWING AND THE DESIGNS, ARRANGEMENTS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE THE UNPUBLISHED WORK OF YC+D ARCHITECTS AND SHALL REMAIN THE PROPERTY OF YC+D ARCHITECTS IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, COPIED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF YC+D ARCHITECTS. VISUAL CONTACT WITH THE ABOVE DRAWINGS OR ANY PART THEREOF, SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
M507-02

ABBREVIATIONS

AC	AIR CONDITIONING UNIT	GPM	GALLONS PER MINUTE	SN	SHEET NOTE
ACCU	AIR COOLED CONDENSING UNIT	GSM	GALVANIZED SHEET METAL	SOV	SHUT OFF VALVE
AD	ACCESS DOOR	GV	GATE VALVE	SPD	SUMP PUMP DISCHARGE
AD	AREA DRAIN	GWH	GAS FIRED WATER HEATER	SPV	SUMP PUMP VENT
AFF	ABOVE FINISHED FLOOR	HB	HOSE BIBB	SS	STAINLESS STEEL
AFG	ABOVE FINSIHED GRADE	HHWS	HEATING HOT WATER SUPPLY	SS	SANITARY SEWER
AHU	AIR HANDLING UNIT	HHWR	HEATING HOT WATER RETURN	STD	STANDARD
AHS	AIR HANDLING SYSTEM	H/C (HC)	HANDICAPPED	STRUCT	STRUCTURAL
AL	ACOUSTIC LINING	HORIZ	HORIZONTAL	S.A.D.	SEE ARCHITECTURAL DRAWINGS
AP	ACCESS PANEL	HP	HORSEPOWER	S.C.D.	SEE CIVIL DRAWINGS
APD	AIR PRESSURE DROP (INWG)	H20	WATER	S.E.D.	SEE ELECTRICAL DRAWINGS
ARCH	ARCHITECTURAL	HTR	HEATER	S.L.D.	SEE LANDSCAPE DRAWINGS
AS	AIR SEPARATOR	HW	HOT WATER (DOMESTIC)	S.M.D.	SEE MECHANICAL DRAWINGS
ATV	ACOUSTIC TURNING VANES	HWR	HOT WATER RETURN (DOMESTIC)	S.S.D.	SEE STRUCTURAL DRAWINGS
B	BOILER	HZ	FREQUENCY (HERTZ)	T	THERMOSTAT
BFF	BELOW FINISHED FLOOR	ID	INSIDE DIAMETER	TC	TIME CLOCK
BFG	BELOW FINISHED GRADE	IE	INVERT ELEVATION	TEMP	TEMPERATURE
BHP	BRAKE HORSEPOWER	IFC	IN FURRED CEILING	TP	TRAP PRIMER
BOP	BOTTOM OF PIPE	IFS	IN FURRED SPACE	TV	TURNING VANES
BT	BATH TUB	IFW	IN FURRED WALL	TYP	TYPICAL
BTU	BRITISH THERMAL UNIT	IJS	IN JOIST SPACE	UG	UNDERGROUND
CD	CONDENSATE DRAIN	IN	INCH	UL	UNDER WRITER'S LABORATORY
CFH	CUBIC FEET PER HOUR	INWG	INCHS OF WATER, GAUGE	UON	UNLESS OTHERWISE NOTED
CFM	CUBIC FEET PER MINUTE	I.E./INV	INVERT ELEVATION	UR/U	URINAL
CI	CAST IRON	JS	JANITOR SINK	V	VENT
CLG	CEILING	KS	KITCHEN SINK	VIF	VERIFY IN FIELD
CO	CLEANOUT	KW	KILOWATT	VR	VENT RISER
CONN	CONNECTION	LAV/L	LAVATORY	VTR	VENT THRU ROOF
CONC	CONCRETE	LBS	POUNDS	W	WASTE
CONTR	CONTRACTOR	LF	LINEAR FEET	WC	WATER CLOSET/WATER COLUMN
CPC	CALIFORNIA PLUMBING CODE	LG	LENGTH	WCO	WALL CLEANOUT
CTG	CLEAN OUT TO GRADE	LS	LAUNDRY SINK	WH	WATER HEATER
CW	COLD WATER (DOMESTIC)	LWB	LEAVING WET BULB	WHA	WATER HAMMER ARRESTOR
CW	CLOTHES WASHER	LWT	LEAVING WATER TEMPERATURE	WT	WEIGHT
DCV	DOUBLE CHECK VALVE	MAX	MAXIMUM		
DIA	DIAMETER	MBH	1000 BTUS PER HOUR		
DN	DOWN	MECH/MECH'L	MECHANICAL		
DWGS	DRAWINGS	MER	MECHANICAL EQUIPMENT ROOM		
Ø	DIAMETER	MFR	MANUFACTURER		
(E)	EXISTING	MIN	MINIMUM		
EA	EACH	(N)	NEW		
EL/ELEV	ELEVATION	N/A	NOT APPLICABLE		
ELEC	ELECTRICAL	NC	NORMALLY CLOSED/NOISE CRITERIA		
ELECT	ELECTRICAL	NIC	NOT IN CONTRACT		
ESP	ELEVATOR SUMP PUMP	NIPW	NOT IN PLUMBING WORK		
ET	EXPANSION TANK	NO	NORMALLY OPEN, NUMBER		
EWT	ENTERING WATER TEMPERATURE	NPT	NATIONAL PIPE THREAD		
F	FILTER	NTS	NOT TO SCALE		
(F)	FUTURE	OC	ON CENTER		
°F	FAHRENHEIT IN DEGREES	OD	OUTSIDE DIAMETER		
FA	FROM ABOVE	OFD	OVERFLOW DRAIN		
FB	FROM BELOW	P	PUMP		
FCO	FLOOR CLEANOUT	PDI	PLUMBING AND DRAINAGE INSTITUTE		
FD	FLOOR DRAIN	PH	PHASE		
FF	FINISHED FLOOR	PBLG	PLUMBING		
FFE	FINISHED FLOOR ELEVATION	POC	POINT OF CONNECTION		
FLA	FULL LOAD AMPS	PRESS	PRESSURE		
FLEX	FLEXIBLE	PSI	POUNDS PER SQUARE INCH		
FLR	FLOOR	PSIG	POUNDS PER SQUARE INCH GAUGE		
FPM	FEET PER MINUTE	PRV	PRESSURE RELIEF VALVE		
FPS	FEET PER SECOND	RCP	REINFORCED CONCRETE PIPE		
FS	FLOOR SINK	RD	ROOF DRAIN		
FT	FEET	REQ'D	REQUIRED		
FTWG	FEET OF WATER, GAUGE PRESSURE	RP	REDUCED PRESSURE		
FT²	SQUARE FEET	RPM	REVOLUTIONS PER MINUTE		
FU	FIXTURE UNIT	RWL	RAIN WATER LEADER		
FV	FLUSH VALVE	S	SOIL		
GA	GAUGE	SCH	SCHEDULE		
GAL	GALLON	SD	STORM DRAIN		
GALV	GALVANIZED	SF	SQUARE FOOT		
GC	GAS COCK	SK	SINK		
GCO	GRADE CLEANOUT	SED	SEWAGE EJECTOR DISCHARGE		
GPH	GALLONS PER HOUR	SEV	SEWAGE EJECTOR VENT		

LEGEND AND SYMBOLS

DCV	DCV	DOUBLE CHECK VALVE
DCV	DCV	DOUBLE CHECK VALVE
P.O.C.	POC	POINT OF CONNECTION THICK LINE REPRESENTS (N) WORK, THIN LINE REPRESENTS (E) WORK
		PIPE UNION
		PIPE CAPPED
		SOLENOID VALVE
	SOV	SHUT-OFF VALVE, PLAN/RISER
	BLV	BALANCING VALVE
	CBV	COMBINATION BALANCING & SHUT-OFF VALVE
	PRV	PRESSURE REDUCING VALVE
	SCV	SEISMIC GAS SHUT-OFF VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	PG	PRESSURE GAUGE
	BWV	BACKWATER VALVE
	GV	GAS VALVE
		PIPE SLEEVE
	HB	HOSE BIB
	HB	RECESSED BOX HOSE BIBB PRESSURE-TEMPERATURE RELIEF VALVE
	RV	SAFETY RELIEF VENT
		DIRECTION OF FLOW
		HOSE END GATE VALVE WITH HOSE CAP
		BALANCING VALVE WITH MEMORY STOP
		DIRECTION OF FLOW
FCO	FCO	FLOOR CLEANOUT
FCO (2W)	FCO(2W)	FLOOR CLEANOUT TWO-WAY
GCO	GCO	GRADE CLEANOUT
GCO (2W)	GCO(2W)	GRADE CLEANOUT
		CLEANOUT PLUG
	FD	FLOOR DRAIN
	FSK	GRADE CLEANOUT
		SLOPE DOWN IN DIRECTION OF ARROW
	WHA ACH	WATER HAMMER ARRESTOR AIR CHAMBER
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	T	THERMOMETER
		VALVE IN YARD BOX
	A	AQUASTAT
	VTR	VENT THRU ROOF
	SCD	SCUPPER DRAIN

(E)	(E)	EXISTING LINE
	SS	ABOVE FLOOR SANITARY SEWER PIPING
	SS	BELOW FLOOR SANITARY SEWER PIPING
SD	SD	ABOVE FLOOR STORM DRAIN PIPING
SD	SD	BELOW FLOOR STORM DRAIN PIPING
OSD	OSD	OVERFLOW STORM DRAIN PIPING
V	V	VENT PIPING (SANITARY)
CW	CW	DOMESTIC COLD WATER SUPPLY PIPING
BCW	BCW	BOOSTED DOMESTIC COLD WATER SUPPLY PIPING
HW	HW	DOMESTIC HOT WATER SUPPLY PIPING
HWR	HWR	DOMESTIC HOT WATER RETURN PIPING
TW	TW	TEMPERED WATER SUPPLY PIPING
G	G	NATURAL GAS PIPING
MG	MG	MEDIUM PRESSURE NATURAL GAS PIPING
TP	TP	TRAP PRIMER PIPING
FOS	FOS	FUEL OIL SUPPLY
FOR	FOR	FUEL OIL RETURN
FOV	FOV	FUEL OIL VENT
FOF	FOF	FUEL OIL FILL
AW	AW	ACID WASTE PIPING
IW	IW	INDIRECT WASTE PIPING
CD	CD	CONDENSATE DRAIN PIPING
OCD	OCD	OVERFLOW CONDENSATE DRAIN
WSP	WSP	WET STANDPIPE
FS	FS	FIRE SPRINKLER PIPING
F	F	FIRE WATER SUPPLY PIPING
DSP	DSP	DRY STANDPIPE
CSP	CSP	COMBINATION WET STANDPIPE
SEV	SEV	SEWAGE EJECTOR VENT PIPING
SPV	SPV	SUMP PUMP VENT PIPING
SED	SED	SEWAGE EJECTOR DISCHARGE
SPD	SPD	SUMP PUMP DISCHARGE PIPING
GW	GW	GREASE WASTE PIPING
PD	PD	PLANTER DRAIN PIPING
		RISER UP (ELBOW)
		RISER DOWN (ELBOW)
		RISE OR DROP
		BRANCH-SIDE CONNECTION
		BRANCH-TOP CONNECTION
		BRANCH-BOTTOM CONNECTION
		(E) PIPE TO BE REMOVED
RD	RD	ROOF DRAIN
ORD	ORD	OVERFLOW ROOF DRAIN

EQUIPMENT TYPE
EQUIPMENT DESIGNATION
EQUIPMENT NUMBER

RISER TYPE
RISER DESIGNATION
RISER NUMBER

DETAIL NO.
DETAIL REFERENCE
DRAWING NO.

SECTION NO.
SECTION REFERENCE
DRAWING NO.

1 KEY NOTE TAG

PLUMBING SHEET INDEX

Sheet Number	Sheet Name
P001-02	SYMBOLS, SPECIFICATIONS AND NOTES
P002-02	SCHEDULES
P200-02	FIRST AND SECOND LEVEL
P201-02	ROOF LEVEL PLUMBING PLAN
P202-02	FIRST LEVEL ENLARGED WASTE & VENT PLAN
P203-02	FIRST LEVEL ENLARGED DOMESTIC WATER PLAN
P204-02	SECOND LEVEL ENLARGED WASTE & VENT PLAN
P205-02	SECOND LEVEL ENLARGED DOMESTIC WATER PLAN
P206-02	STORAGE BUILDING PLUMBING PLAN
P301-02	GAS PIPING DIAGRAM
P401-02	DETAILS
P402-02	DETAILS
P403-02	DETAILS
P404-02	DETAILS
P501-02	PLUMBING T-24

LEGEND, SYMBOLS, AND ABBREVIATION NOTES

LEGEND, SYMBOLS AND ABBREVIATIONS LISTED ARE FOR GENERAL USE. DISREGARD THOSE WHICH ARE NOT USED ON THE DRAWINGS.

GENERAL NOTES

1. OWNER SHALL PAY AND OBTAIN FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.
2. ALL WORK SHALL COMPLY WITH THE 2022 CALIFORNIA PLUMBING CODE.
3. PRIOR TO BIDDING, THE CONTRACTOR SHALL OBTAIN COPY OF THE PLANS AND SPECIFICATIONS AND EXAMINE THEM. ANY DISCREPANCIES OR CONFLICTS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT AND/OR ENGINEER, IN WRITING, BEFORE BIDS ARE SUBMITTED. NO ALLOWANCE WILL BE MADE FOR FAILURE TO SUBMIT DISCREPANCIES TO THE ARCHITECT AND/OR ENGINEER.
4. PRIOR TO START OF CONSTRUCTION WORK, PLUMBING CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWING IN ADEQUATE DETAIL FOR REVIEW AND APPROVAL BY THE ARCHITECT AND/OR ENGINEER.
5. CONTRACTOR SHALL CLOSELY COORDINATE WORK WITH ALL TRADES.
6. VERTICAL AND HORIZONTAL OFFSETS SHOWN IN PIPES INDICATE THE GENERAL RELATIONSHIP OF THE SYSTEMS. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED TO SUIT CONSTRUCTION AND WORK DONE BY OTHER TRADES. THE CONTRACTOR SHALL PROVIDE ALL. NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
7. ALL VALVES, CONTROLS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.
8. EXAMINE ARCHITECTURAL DRAWINGS TO ENSURE THAT ALL PIPING CROSSING FIRE AND/OR SMOKE SEPARATION CONSTRUCTION SHALL BE SEALED WITH UL LISTED ASSEMBLIES.
9. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
10. OFFSET VENTS AT ROOF AS REQUIRED TO MAINTAIN 10 FEET SEPARATION FROM ANY AIR INTAKE, DOORS, OPERABLE WINDOWS AND TERRACES. GATHER ALL VENTS IN PROXIMITY IN ATTIC SPACE TO MINIMIZE TERRACES/ROOF PENETRATIONS.
11. PROVIDE 3/8 INCH COLD WATER SUPPLY TO ICE MAKER BOXES/REFRIGERATOR FROM KITCHEN SINK COLD WATER SUPPLY, WHEN REQUIRED. PROVIDE 3/8 INCH HOT WATER SUPPLY TO DISHWASHER FROM KITCHEN SINK HOT WATER SUPPLY. SUPPLY PIPES SHALL BE COMPLETE WITH SHUTOFF VALVE AND WATER HAMMER ARRESTOR, WHERE REQUIRED BY UPC.
12. HORIZONTAL SANITARY SEWER PIPES SHALL HAVE 1/4" PER FOOT MINIMUM SLOPE OR 2% MINIMUM FLOW TOWARDS THE DISPOSAL AREA.
13. ALL HOSE BIBS SHALL BE PROVIDED WITH NON-REMOVABLE BACKFLOW PREVENTION DEVICE.
14. ALL WATER AND DRAINAGE PIPING SYSTEMS SHALL BE INSTALLED WITH ACOUSTICAL ISOLATORS AND SHALL BE ISOLATED FROM ANY STRUCTURAL MEMBERS, WALL SECTIONS OR OTHER MATERIALS THAT COULD TRANSMIT SOUND TO THE OCCUPIED AREAS.
15. PIPING PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND MUST BE COORDINATED WITH THE TRADES INVOLVED BEFORE MAKING THE PENETRATIONS.
16. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SPACING COORDINATION OF WOOD FRAMING AND SPECIAL CONDITIONS REQUIRED FOR INSTALLATION OF PLUMBING WORK. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OBSTRUCTION FROM DOUBLE SIDED SHEAR WALLS AND SPECIAL HOLD-DOWN POST ASSEMBLY.
17. PLUMBING CONTRACTOR SHALL CONNECT TO SITE SEWER AND DOMESTIC COLD WATER SUPPLY WITHIN 5 FEET OUT OF BUILDING LINE. SEE CIVIL SITE UTILITY DRAWINGS FOR EXACT LOCATIONS AND INVERT ELEVATIONS.
18. ALL PIPING ON PLANS IS TYPICALLY SHOWN CONCEALED IN CEILING OR PLUMBING WALLS. RISERS AND OFFSETS SHALL BE CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.
19. EACH PLUMBER USING A TORCH TO SWEAT PIPE JOINT SHALL HAVE ACCESS TO 2A RATED FIRE EXTINGUISHER AT WORK AREA AND SHALL FIRE WATCH FOR 1/2-HOUR AFTER USE, IN COMPLIANCE WITH THE 2022 CALIFORNIA FIRE CODE (CFC).
20. PROVIDE SEISMIC SHUTOFF VALVE DOWNSTREAM OF GAS METER.
21. ALL PIPING PENETRATING CONCRETE FLOOR OR WALL MUST BE PROVIDED WITH SLEEVE TO PREVENT PIPE BREAKAGE.
22. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
23. FOR EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, AREA DRAINS, DECK DRAINS, DOWNSPOUT AND HOSE BIBS, SEE ARCHITECTURAL DRAWINGS AND DETAILS.
24. KEEP ALL PLUMBING PIPING AS HIGH AS POSSIBLE TO STRUCTURE ABOVE AND OFFSET AS REQUIRED.
25. COORDINATE WITH CIVIL DRAWINGS FOR SITE CONNECTIONS TO FIRE, COLD WATER, GAS, SANITARY WASTE AND RAINWATER STUBOUTS.
26. ANY CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO THE CONSTRUCTION OF SUCH ITEMS.
27. ALL PIPING PENETRATIONS THROUGH RATED WALL, CEILING OR FLOOR SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 (UL 1479), WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.
28. COORDINATE ROUGH-IN OF ALL WORK WITH EQUIPMENT/FIXTURE REQUIREMENTS AND OTHER TRADES.
29. ALL PLUMBING EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.
30. ALL FLOOR MOUNTED PLUMBING EQUIPMENT SHALL BE ON CONCRETE PADS OR CONCRETE CURBS. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR MOUNTED PLUMBING EQUIPMENT. COORDINATE HOUSEKEEPING PAD LOCATIONS AND SIZES WITH THE STRUCTURAL ENGINEER AND WITH THE GENERAL CONTRACTOR.
31. INSTALL ACCESS PANELS IN ALL NON-ACCESSIBLE CEILINGS AND WALLS FOR ACCESS TO VALVES, CLEANOUTS AND OTHER MAINTENANCE ITEMS. REFER TO ARCHITECTURAL PLANS FOR TYPE OF CEILINGS AND WALLS. INSTALL FIRE RATED ACCESS PANELS IN FIRE RATED CEILING AND WALLS. SEE ARCHITECTURAL SPECIFICATIONS FOR ACCESS PANELS. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS OF ACCESS PANELS.
32. WHERE MAIN PIPE SIZE IS NOT INDICATED BETWEEN BRANCH CONNECTIONS IN THE DRAWING, THE PIPE SIZE SHALL BE OF THE LARGER PRECEDING PIPE SIZE.
33. ALL VALVES AND ACCESSORIES SHALL BE FULL LINE SIZE. PROVIDE ALL NECESSARY UNIONS, REDUCERS AND STOPS AS REQUIRED WHEN CONNECTING TO EACH FIXTURE AND/OR EQUIPMENT.
34. PROVIDE CLEANOUTS ON DRAINAGE LINES IN ACCORDANCE WITH THE PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.
35. PROVIDE DEEP SEAL TRAPS ON ALL FLOOR DRAINS INCLUDING FLOOR SINKS IN MECHANICAL ROOMS.
36. ALL HORIZONTAL RAIN WATER PIPING WITHIN BUILDING FOOTPRINT SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON THE DRAWING.
37. PROVIDE INDIVIDUAL SHUT-OFF VALVE/SUPPLY STOP TO ALL PLUMBING FIXTURES AND EQUIPMENT.
38. ALL HORIZONTAL GAS PIPING SUPPORTED ON RODS OVER 12 INCHES IN LENGTH SHALL BE SEISMICALLY BRACED.
39. ALL DRAINS FROM RELIEF VALVES, CONDENSATE PANS, COILS AND HVAC EQUIPMENT HAVING DRAINS SHALL BE PIPED TO NEAREST DRAIN UNDER THIS SECTION OF WORK.
40. ALL PIPING IN CONCRETE FOUNDATIONS, AND WALLS, INCLUDING BLOCK WALLS SHALL BE FULLY INSULATED TO ISOLATE PIPING FROM CONCRETE.
41. ALL PLUMBING FIXTURES AND PIPING SHALL BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY AND PROPERLY LABELED PER CPC SECTION 301.1.2.
42. ALL WATER CLOSETS SHALL HAVE A MAXIMUM OF 1.28 GPF. CALIFORNIA HEALTH AND SAFETY CODE SECTION 17921.3.
43. ALL DOMESTIC WATER VALVES UP TO AND INCLUDING 2" SIZE SHALL BE BRASS OR OTHER APPROVED MATERIALS. EACH GATE VALVE SHALL BE A FULL-WAY TYPE WITH WORKING PARTS OF NON-CORROSIVE MATERIAL PER CPC 606.1.
44. PROVIDE EACH CONNECTION TO FAUCET OR FIXTURE WITH A WATER HAMMER ARRESTOR, SIZED IN ACCORDANCE WITH CPC SECTION 609.10. EXCEPTION, FIXTURES CONNECTED TO DISTRIBUTION MANIFOLD WITH SHOCK ABSORBERS.
45. PROVIDE A 4" MINIMUM LONG DRIP LEG AT ANY POINT IN THE GAS LINES WHERE CONDENSATE MAY COLLECT. ALL DRIPS SHALL BE READILY ACCESSIBLE TO PERMIT CLEANING OR EMPTYING.
46. PROVIDE ACOUSTO-PLUMB TYPE PIPE ISOLATOR AT HANGERS FOR COPPER PRESSURE LINES.
47. FOR CONCEALED AND EXPOSED INTERIOR STORM DRAIN PIPING, INSULATE THE UNDERSIDE OF ROOF DRAIN BODIES AND ALL INTERIOR DRAIN PIPING BOTH HORIZONTAL AND VERTICAL INCLUDING HUBS AND FITTINGS WITH 1 INCH THICK RIGID FIBERGLASS WITH ALL SERVICE JACKET, EQUAL TO OWENS CORNING TYPE SSLII. JACKET SHALL BE SEALED TO UNDERSIDE OF ROOF ALL AROUND ROOF DRAIN BODIES; LAP AND SEAL ALL JOINTS.
48. ALL PLUMBING FIXTURE FLOW RATE SHALL COMPLY WITH WATER CONSUMPTION RATE PER CPC SECTIONS 401.3, 407.2, 408.2, 411.2 AND 420.2.
49. POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. USING THE FOLLOWING PROCEDURES PRESCRIBED IN CPC SEC. 609.9.1 THRU 609.9.4 AND INCLUDING SEC. 604.1.2 FOR PEX PIPING.
50. PLUMBING CONTRACTOR SHALL INSULATE WATER LINES, PER 2022 CPC SECTION 609.11 AND TITLE 24 5.3.5.
51. PLUMBING CONTRACTOR SHALL PROVIDE CISCO EAGLE PIPE BUMPER GUARDS OR EQUAL TO PROTECT PIPES FROM IMPACT AT GARAGE LEVEL.

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
SYMBOLS, SPECIFICATIONS AND NOTES

SHEET NUMBER:
P001-02

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WATER AND WASTE SERVICE CALCULATIONS

JOB NAME: MARS/ELO-P FACILITY MCSD - 26TH ST. DATE: 10/21/25

FIXTURE TYPE	NO.	WASTE		COLD WATER		HOT WATER		TOTAL WATER
		FU	TOTAL	FU	TOTAL	FU	TOTAL	FU
BAR SINK	0	2	0	1.5	0	1.5	0	0
BATH TUB/SHOWER	0	3	0	3	0	3	0	0
CLOTHES WASHER	0	3	0	3	0	3	0	0
DRINKING FOUNTAIN	2	0.5	1	0.5	1	0	0	1
HOSE BIBB	3	0	0	2.5	7.5	0	0	7.5
KITCHEN SINK (DOMESTIC)	4	3	12	1.125	4.5	1.125	4.5	6
LAUNDRY SINK	0	2	0	1.125	0	1.125	0	0
LAVATORY (SINGLE)	5	1	5	0.75	3.75	0.75	3.75	5
LAVATORY (MULTIPLE)	0	2	0	0.75	0	0.75	0	0
SERVICE SINK (MOP SINK)	1	3	3	2.25	2.25	2.25	2.25	3
FLOOR DRAIN	8	2	16	0	0	0	0	0
FLOOR SINK RECEPTOR	0	3	0	0	0	0	0	0
SHOWER	0	2	0	1.5	0	1.5	0	0
SINK, 1-1/2" TRAP	1	2	2	1.5	1.5	1.5	1.5	2
SINK, 2" TRAP	1	3	3	1.5	1.5	1.5	1.5	2
URINAL, 1.0 GPF	0	2	0	4	0	0	0	0
WASHFOUNTAIN, 1-1/2"	0	2	0	1.5	0	1.5	0	0
WATER CLOSET, 1.28 TANK	0	4	0	2.5	0	0	0	0
WATER CLOSET, 1.28 FV	6	4	24	5	30	0	0	30
DISHWASHER	1	0	0	0	0	1	1.125	1.125
ADDITONAL HOSE BIBB	1	0	0	1	1	0	0	1
MISC	0	2	0	3	0	3	0	0
TOTAL FU			66.0		53.0		14.6	58.6

EQUIVALENT COLD WATER FLOW RATE (GPM):	54	
ADDITIONAL DEMAND LOAD (GPM)	0	
PRESSURE AVAILABLE AT MAIN (PSI):	55	
PRESSURE BOOSTER PUMP	0	
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):	20	
ELEVATION RISE (FT):	30	
METER LOSS (PSI): 3" water meter	3	
BACKFLOW PREVENTER LOSS (PSI):	5	
ADDITIONAL LOSSES (PSI):	0	
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE...	180	
FRICTION LOSS PRESSURE AVAILABLE (PSI):	13.98	
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):	7.77	
WATER FLOW VELOCITY (FPS):	5.60	
CALCULATED FRICTION HEAD LOSS (PSI/100 FT):	3.17	
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):	2	3 PROVIDED
MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):	4	

CONDENSATE DRAIN PIPE SIZING SCHEDULE

TONES OF REFRIGERATION	SIZE (IN)
THROUGH 3	3/4
THROUGH 20	1"
THROUGH 90	1 1/4
THROUGH 125	1 1/2
THROUGH 250	2"

NOTES: THE CAPACITY OF WASTE PIPES ASSUMES A ONE-EIGHT (1/8) INCH PER FOOT OR ONE PERCENT SLOPE.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	ROUGH-IN SS	ROUGH-IN V	ROUGH-IN DCW	ROUGH-IN DHW	ELECTRICAL	MANUFACTURER & MODEL NUMBERS	DESCRIPTION	ACCESSORIES	REMARKS
WC-1	WATER CLOSET, ADA	4"	2"	1"	-	-	BOWL: KOHLER #K-96057-0 FLUSHVALVE: ZURN #Z6000AV-HET SEAT: CHURCH #9500SSCT	ELONGATED FLOOR MOUNTED WATER CLOSET WITH POLISHED CHROME MANUALLY OPERATED FLUSH VALVE, 1.28 GPF; PLASTIC OPEN FRONT SEAT WITH SS HINGE POSTS, SELF-SUSTAINING CHECK HINGES, AND STA-TITE FASTENING...	-	18" TOP OF SEAT HEIGHT, FLUSH VALVE HANDLE SHALL POINT TOWARDS WIDE SIDE OF STALL OR ROOM FOR ACCESS COMPLIANCE.
WC-2	WATER CLOSET	4"	2"	1"	-	-	BOWL: KOHLER #K-96057-0 FLUSHVALVE: ZURN #Z6000AV-HET SEAT: CHURCH #9500SSCT	ELONGATED FLOOR MOUNTED WATER CLOSET WITH POLISHED CHROME MANUALLY OPERATED FLUSH VALVE, 1.28 GPF; PLASTIC OPEN FRONT SEAT WITH SS HINGE POSTS, SELF-SUSTAINING CHECK HINGES, AND STA-TITE FASTENING...	-	16-1/2" TOP OF SEAT HEIGHT
U-1	URINAL, ADA	2"	1 - 1 / 2"	3 / 4"	-	-	URINAL: KOHLER #K-5452-ET FLUSHVALVE: ZURN #Z6003AV-ULF	WALL-HUNG WASHOUT URINAL WITH STRAINER AND MANUALLY OPERATED TRIPLE DIAPHRAM FLUSH VALVE, 1.28 GPF	JAY R SMITH 637 FLOOR MOUNTED SUPPORT CARRIER WITH BOTTOM BEARING PLATE	SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS
L-1	LAVATORY, WALL MOUNT	2"	1 - 1 / 2"	1 / 2"	1 / 2"	-	BOWL: KOHLER #K-2005-0 FAUCET: CHICAGO 116.971.AB.1	KINGSTON WALL-HUNG 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, DUAL BEAM IR SENSOR, 0.5 GPM VANDAL PROOF NON-AERATING SPRAY (OUTLET MNIMUM 5" ABOVE FIXTURE RIM), SINGLE SUPPLY, SELF SUSTAINING POWER WATER TURBINE	MCGUIRE 155WC GRID STRAINER, CHICAGO 131-ABNF POINT OF USE THERMOSTATIC MIXING VALVE BELOW LAV, P-TRAP, 1/2" x 3/8" QUARTER TURN STOPS, FLEXIBLE HOSE	-
S-1	CLASSROOM SINK, ADA	2"	1 - 1 / 2"	1 / 2"	1 / 2"	-	BOWL: JUST SL-ADA-2125-A-GR FAUCET: CHICAGO 786-E65VPAABCP	25" L x 22" W x 6-5/16" D STAINLESS STEEL SINGLE BOWL, TOP/UNDERMOUNT SINK, WITH PULLDOWN SINGLE LEVER FAUCET, 1.5 GPM, POLISHED CHROME	K-8801-CP STRAINER, P-TRAP, 1/2" x 3/8" QUARTER TURN STOPS, FLEXIBLE HOSE	COORDINATE SIZE WITH CABINET SHOP DRAWINGS PRIOR TO ORDERING BOWL
KE-1	HAND SINK, ADA	2"	1 - 1 / 2"	1 / 2"	1 / 2"	-	BOWL: SEE KITCHEN DRAWINGS FAUCET: SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS
KE-8	KITCHEN SINK, THREE COMPARTMENT	2"	1 - 1 / 2"	1 / 2"	1 / 2"	-	BOWL: SEE KITCHEN DRAWINGS FAUCET: SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS	SEE KITCHEN DRAWINGS
MS-1	MOP SINK	3"	2"	1 / 2"	1 / 2"	-	BOWL: KOHLER WHITBY K-6710 FAUCET: CHICAGO 89-CCP	28" L x 28" W x 12" D CORNER STYLE MOUNTED DEEP ENAMELED CAST IRON; WALL MOUNTED POLISHED CHROME FAUCET WITH HOSE THREADED OUTLET, VACUUM BREAKER, INTEGRAL STOPS, INTEGRAL CHECK VALVES, AND WALL BRACE	K-9146 STRAINER, K-8940 RIM GUARD, P-TRAP, 1/2" x 3/8" QUARTER TURN STOPS, FLEXIBLE HOSE, FLORESTONE MR-370 HOSE WITH HOOK & FLORESTONE MR-372 MOP HANGER	-
FS-1	SQUARE FLOOR SINK	2"	1 - 1 / 2"	-	-	-	JAY R SMITH #3140Y-12-C	12" x 12" x 6" DEEP COATED CAST IRON WITH NICKEL BRONZE RIM WITH 7" SQUARE OPENING IN CENTER, DOME BOTTOM STRAINER, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET	#2695Y-2 TRAP PRIMER CONNECTION FITTING AND TP-1 WHERE APPLICABLE	-
FCO	FLOOR CLEANOUT	LINE SIZE	-	-	-	-	JAY R. SMITH #4025	CAST IRON CLEANOUT WITH ROUND NICKEL BRONZE ADJUSTABLE TOP	-	-
TP-1	TRAP PRIMER	-	-	1 / 2"	-	-	PPP "PRIME-RITE" PR-500	PRESSURE DROP ACTIVATED WITH #DU-U DISTRIBUTION UNIT FOR UP TO (2) FLOOR DRAINS	14"x16" STAINLESS STEEL ACCESS DOOR WITH CYLINGER LOCK	PROVIDE SOV UPSTREAM OF TRAP PRIMER
FD-1	FLOOR DRAIN	3"	2"	-	-	-	JAY R SMITH #2005Y-A05-HP-P050	5" ROUND ADJUSTABLE STRAINER, STANDARD NICKEL BRONZE HEEL PROOF GRATE, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET	PROVIDED WITH TP-1	REMOVE CLAMPING COLLAR IF NO WATERPROOF MEMBRANE IS NEEDED
FD-2	FLOOR DRAIN	2"	1 - 1 / 2"	-	-	-	JAY R SMITH #2005Y-A05-HP-P050	5" ROUND ADJUSTABLE STRAINER, STANDARD NICKEL BRONZE HEEL PROOF GRATE, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET	PROVIDED WITH TP-1	REMOVE CLAMPING COLLAR IF NO WATERPROOF MEMBRANE IS NEEDED
DF-1	DRINKING FOUNTAIN W/ BOTTLE FILLER, ADA	2"	1 - 1 / 2"	1 / 2"	-	120/1	EKLAY #EZWS-EDFP217K	BOTTLE FILLING STATION & INTEGRAL SOFT SIDES FOUNTAIN, NON-FILTERED NON-REFRIGERATED STAINLESS STEEL, BARRIER-FREE, WALL MOUNTED, DUAL FOUNTAINS	MFWS200 SUPPORT MOUNTING FRAME, ELKAY ACCESS12X38-5 STAINLESS STEEL ACCESS PANEL, ELKAY EWF3000 WATER FILTRATION KIT	OPERATING WEIGHT: 118LBS
GT-1	GREASE INTERCEPTOR	4"GW	2"	-	-	-	JENSEN PRECAST JP-750-EE-G	PROVIDE BELOW-GRADE 750-GALLON GRAVITY GREASE INTERCEPTOR, 4" IN/OUT EQUAL-END ACCESS. IAPMO-LISTED, INSTALLED PER MANUFACTURER INSTRUCTIONS. CONNECT GREASE-BEARING FIXTURES ONLY; NON-GREASE AREA FLOOR DRAINS MAY BYPASS IF ALLOWED BY AHJ.	COORDINATE CLEARANCES REQUIRED BY STRUCTURAL AND POINT OF CONNECTIONS WITH CIVIL.	48 LBS DRY
CP-1	HOT WATER RE-CIRCULATING PUMP	-	-	-	1 / 2"	115/1/60, 39 WATTS 0.38 FL AMPS	BELL AND GOSSETT NBF08S-LW	100% LEAD-FREE BRONZE WE ROTOR CIRCULATING PUMP, 1/2" NPT CONNECTIONS; 150 PSI MAXIMUM WORKING PRESSURE; 0.5 GPM @ 7' HEAD.	PROVIDE WITH AUTOMATIC (PROGRAMMABLE) TIMER KIT TO AUTOMATICALLY TURN ON THE PUMP AT PRESENT TIME AND AQ-1 AQUASTAT TO THERMSTATICALLY TURN ON THE PUMP ON AT 100 DEG. F AND OFF AT 120 DEG. F WATER TEMPERATURE.	-

Applicable Code: 2022 CBC

MEP Component Anchorage Note

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

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

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

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

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

Applicable Code: 2022 CBC per IR 16-13.

MEP Distribution System Bracing Note for Piping, Ductwork, and Electrical Conduit

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7 Section 13.3 as defined in ASCE 7 Sections 13.6.5, 13.6.6, 13.6.7, and 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 systems are as noted below. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13.

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

MP MD (PP) E Option 1: Project-Specific Design.

MP MD PP E Option 2: Design Based on OSHPD OPM, Within Project Submittal.

MP MD PP E Option 3: Design Based on OSHPD OPM, Deferred Submittal.

ELECTRIC HOT WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	INPUT (KW)	WATER VOLUME IN UNIT (GAL)	RECOVERY RATE (GPM)	TEMP RISE (DEG F)	INLET/ OUTLET PIPE SIZE (INCHES)	WEIGHT (LBS)	CONTROL CIRCUIT FLA	CONTROL CIRCUIT V	CONTROL CIRCUIT PH	REMARKS
WH-1	AO SMITH	DVE-80 100	15.0	80	77	80.00	1 1/4	950.0	-	208/240	3	SEE NOTES

NOTES:
1. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
2. VERTICAL STORAGE TANK.
3. SEE DETAILS ON SHEET P401 FOR OPTIONS AND ACCESSORIES.
4. GLASS LINED. ASME CODE CONSTRUCTION.
5. MOUNT WATER HEATER ON LEVEL HOUSEKEEPING PAD (S.S.D.) PROVIDE SEISMIC STRAPS ATTACHED TO WALL.
6. INSULATE HOT WATER LINES PER TITLE 24 ENERGY COMPLIANCE. ROUTE T&P TO DRAIN.
7. SEE WATER HEATER DETAIL ON SHEET P403-02/DETAIL 5.

TANKED WATER HEATER WORKSHEET

		L	W	D	Number of Compartments	Multiply by :	Gallons/Hour GPH	
A:	Ware Washing Sink (Dimensions in inches)	24	24	14	3	25	75	
	Additional Warewashing Sink					0	0	
	Hand Wash Sink(including restrooms)				10	5	50	
	Bar Sink					6	0	
	Food Preparation Sink					5	0	
	Mop Sink					15	0	
	Pre-Rinse Sprayer (only if on separate faucet)					45	0	
	Garbage Wash Facility					15	0	
	Clothes Washer (Default = 45 GPH)						0	or M.S. Sheet
							125	**Subtotal**
B:	Dish Machine(Manufacturer's Specification Sheet (M.S. Sheet))						20	
C:	Add A and B					**Total**	145	**Gallons Per Hour**
D:	1 .Food Facilty with multi-use utensils?				No	1	0	100% Recovery
	2. Food Facility with only single use utensils?				Yes	0.8	116	80% Recovery
	3. Prepackaged food only?				No	0.8	0	10 Gallon Minimum
E:	To get minimum Power Rating:				Thermal Effiency (C...			
	Gas: 8.33lbs/Gallon X 50 F Rise/Thermal Efficiency(0.75...				0.75	=	64,419	**BTU/hr. required**
	Electric: 8.33lbs/Gallon X 50 F Rise/Thermal Efficiency(0.9...				0.98	=	14.4	**kW required**
F:						Proposed:		BTU/hr.
	Must be Commercial and Total power rating at least as high as kW required.					Proposed:	15	kW
	List Brand and Model:				Gold™Xi Series 80-Gallon Model DVE-80 100			

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SHEET NUMBER:
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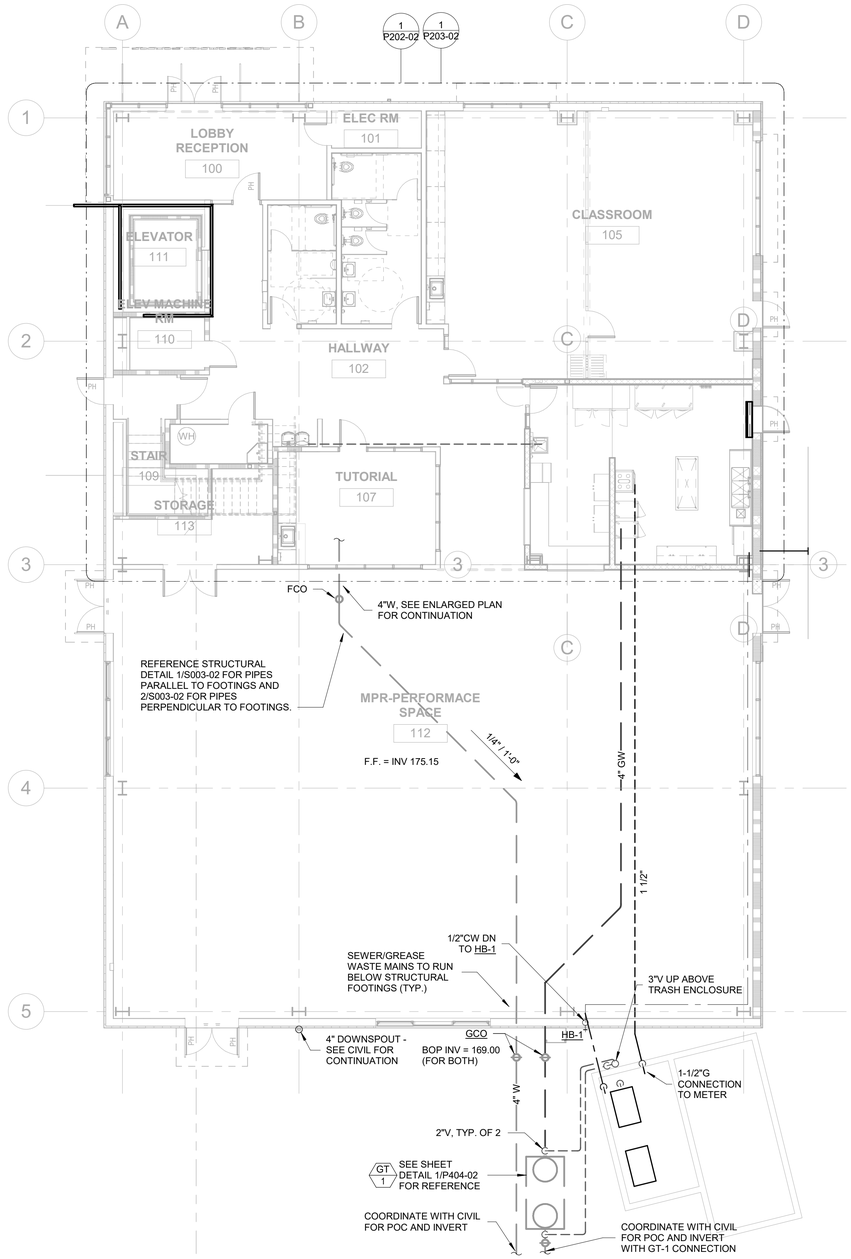
GENERAL NOTES

A. EXISTING CONDITIONS WERE BASED ON INFORMATION OBTAINED FROM SITE VISITS AND/OR AS-BUILT DRAWINGS AND MAY NOT REFLECT EXACT CONDITIONS. FIELDS VERIFY ALL EXISTING PRIOR TO SUBMITTING FINAL BIDS. NOTIFY ARCHITECT/ENGINEER FOR ANY DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITION AND THE DRAWINGS.

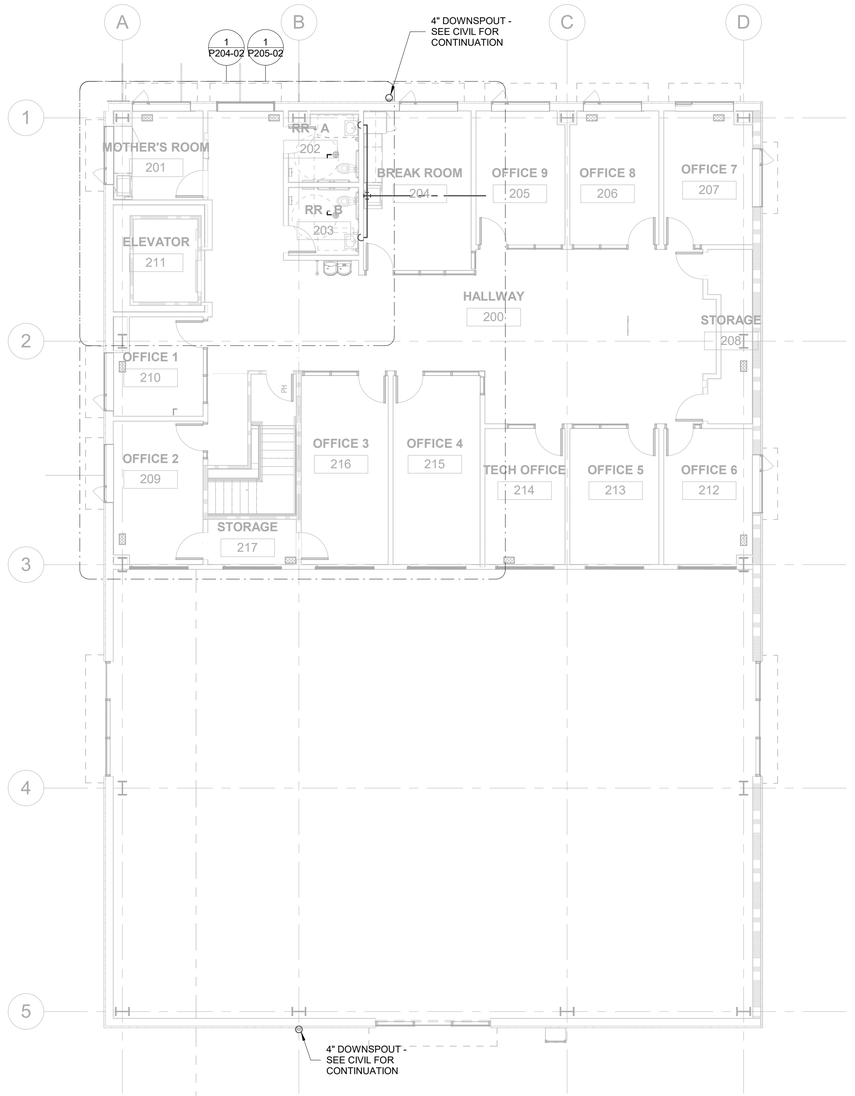
B. PLANS ARE DIAGRAMMTIC, FINAL LAYOUT AND LOCATIONS OF ALL MEP ITEMS TO BE FIELD VERIFIED COORDINATED BY THE CONTRACTORS.

C. PLUMBING CONTRACTOR SHALL RUN ALL SEWER, VENT, CW AND HE IN WAY SO AS TO INTERFERE WITH ANY MECHANICAL, ELECTRICAL EQUIPMENT OR STRUCTIRE ITEMS.

D. THE INSULATION REQUIREMENTS ON PLANS. ALL HOT WATER SUPPLY & RETURN PIPING SHALL BE INSULATED AS FOLLOWS (CPC 609.12.2):
   a. 1" INSULATION THICKNESS REQUIRED FOR 3/4" PIPE.
   b. 1-1/2" INSULATION THICKNESS REQUIRED FOR 1" TO 1-1/2" PIPE.
   c. 2" INSULATION THICKNESS REQUIRED FOR 2" PIPE & LARGER.



1 FIRST LEVEL PLUMBING PLAN
1/8" = 1'-0"



2 SECOND LEVEL PLUMBING PLAN
1/8" = 1'-0"

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MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

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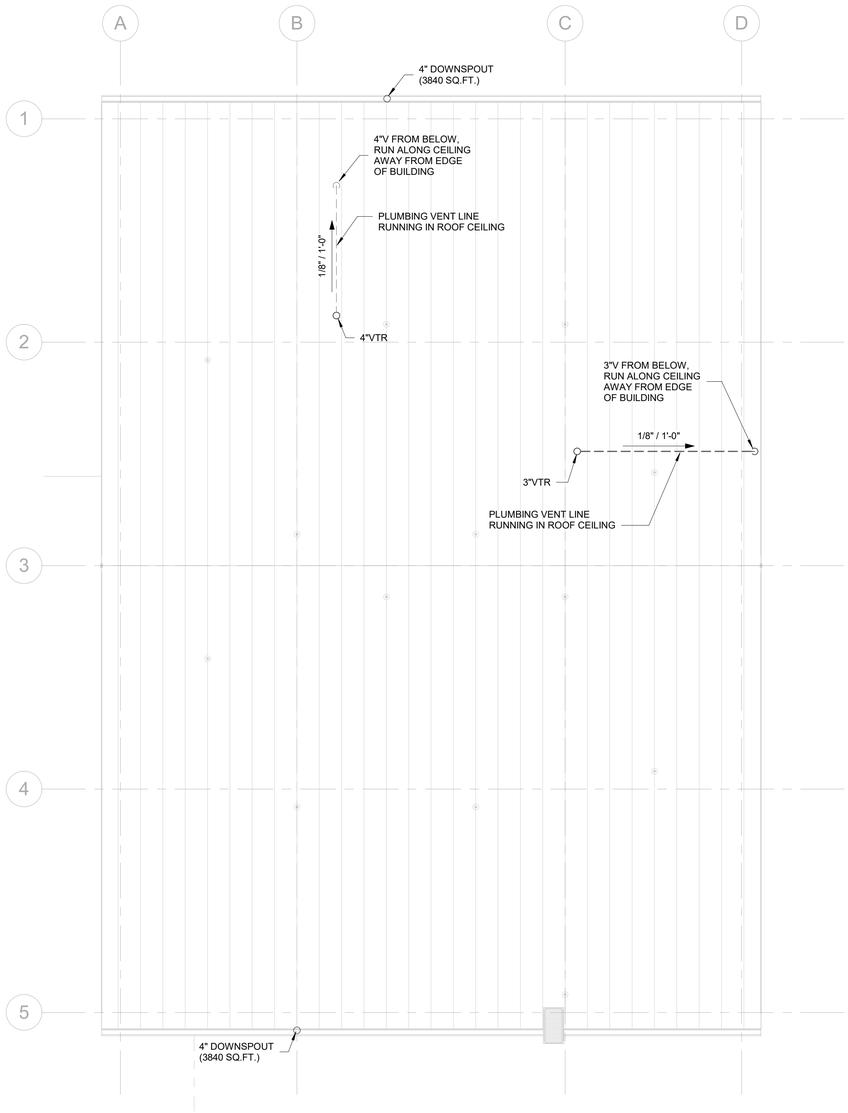
SHEET TITLE
FIRST AND SECOND LEVEL

SHEET NUMBER:
P200-02



1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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   b. 1-1/2" INSULATION THICKNESS REQUIRED FOR 1" TO 1-1/2" PIPE.
   c. 2" INSULATION THICKNESS REQUIRED FOR 2" PIPE & LARGER.

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CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER
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M31601
Exp: 12/31/26
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MCSD - 26TH ST.

CLIENT:
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SHEET TITLE
ROOF LEVEL PLUMBING PLAN

SHEET NUMBER:
P201-02

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SHEET NOTES

1. 4"W & 2"V FOR WC-1.
2. 4"W & 2"V FOR WC-2.
3. 2"W & 1-1/2"V FOR L-1.

4" 2"W & 2"V FOR U-1.

5. 2"W & 1-1/2"V FOR S-1.
6. 4"W RISER UP TO LEVEL 2.
7. 2"W & 1-1/2"V FOR S-2.
8. 2"W & 1-1/2"V FOR DF-1.
9. TERMINATE CD TO MOP SINK BELOW AND PROVIDE WITH MINIMUM 2" AIR GAP.
10. 1-1/2"V UP.
11. TERMINATE T&P RELIEF TO NEARBY FS-1. PROVIDE WITH MINIMUM 2" AIR GAP.
12. ROUTE AND EXTEND KITCHEN EQUIPMENT DRAINAGE TO TERMINATE TO NEARBY FLOOR SINK. PROVIDE WITH MINIMUM 2" AIR GAP. VERIFY IN FIELD EXACT ROUTING.

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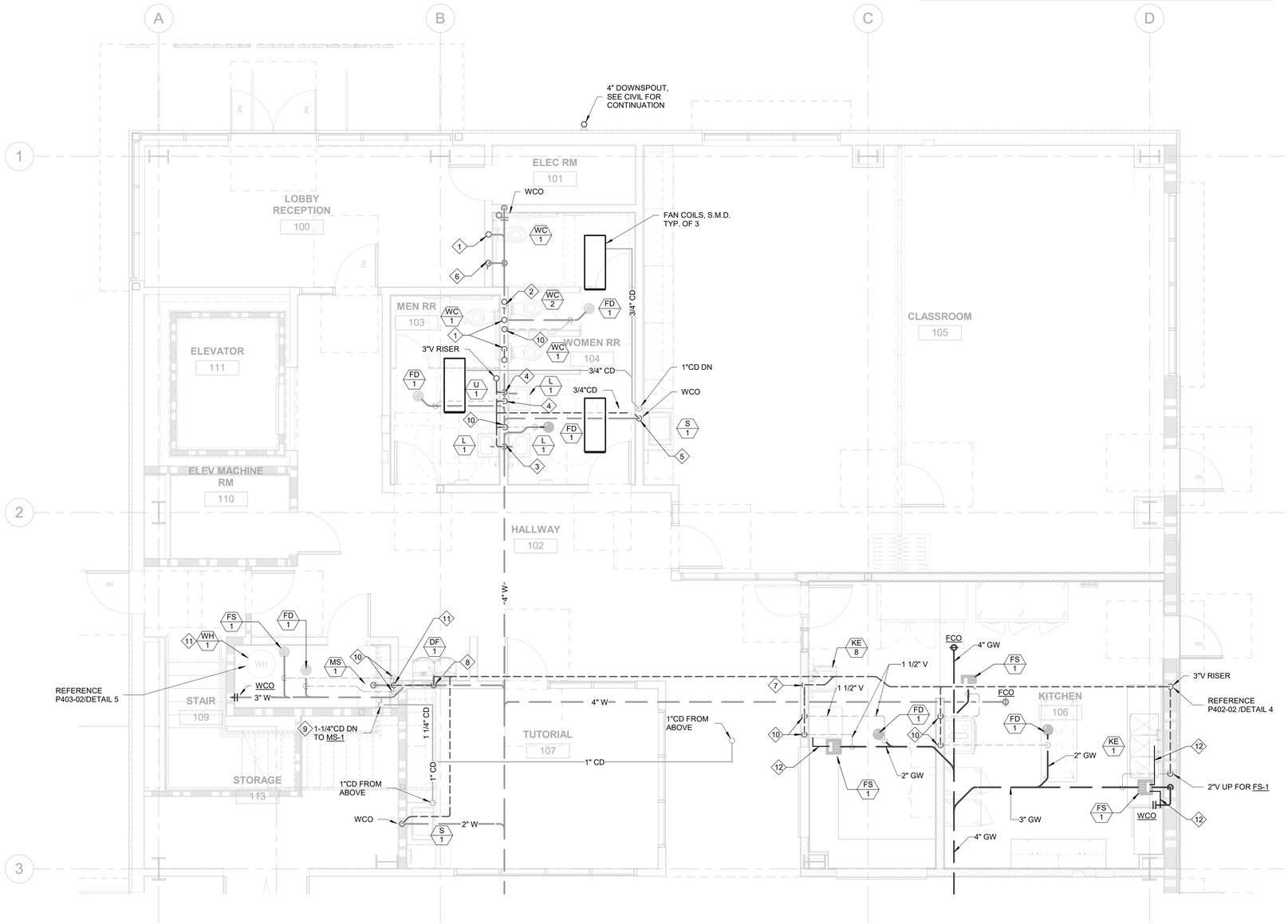

1 FIRST LEVEL PLUMBING PLAN - WASTE & VENT PLAN
1/4" = 1'-0"

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MCSD - 26TH ST.

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SHEET TITLE
FIRST LEVEL ENLARGED WASTE & VENT PLAN

SHEET NUMBER:
P202-02

SHEET NOTES

1. 3" CW MAIN RAISE FROM STREET POC. PROVIDE WITH 1/2"HB-1 AT THE EXTERIOR OF BUILDING. REDUCE THE CW MAIN TO 2"CW FOR DOMESTIC WATER BUILDING SUPPLY IN CEILING ABOVE.
2. 1-1/2" CW DROP TO FEED (1) WC-1.
3. 1-1/2" CW DROP TO FEED (2) WC-2.
4. 1-1/2" CW DROP TO FEED (2) 1" BRANCHES. EACH BRANCH FEEDS (2) 3/4" PLUMBING FIXTURES: (3) L-1 & (1) U-1.
5. 3/4" CW DROP TO FEED (1) S-1.
6. 3/4" CW DROP TO FEED (1) DF-1.
7. 1-1/2" CW MAIN RISE FROM FIRST FLOOR TO FEED SECOND FLOOR.
8. 3/4" CW DROP TO FEED (1) L-1.
9. 1-1/2" CW DROP TO FEED (1) S-1 AND (1) WC-1.
10. 3/4" CW DROP TO FEED (1) S-3.
11. 3/4" CW DROP TO FEED (1) S-4.
12. ROUTE AND CONCEAL CW/HW LINES IN CEILING SPACE ALONG STRUCUTRAL BEAM.
13. 1/2"CW/HW DROP TO FEED (1) MS-1.

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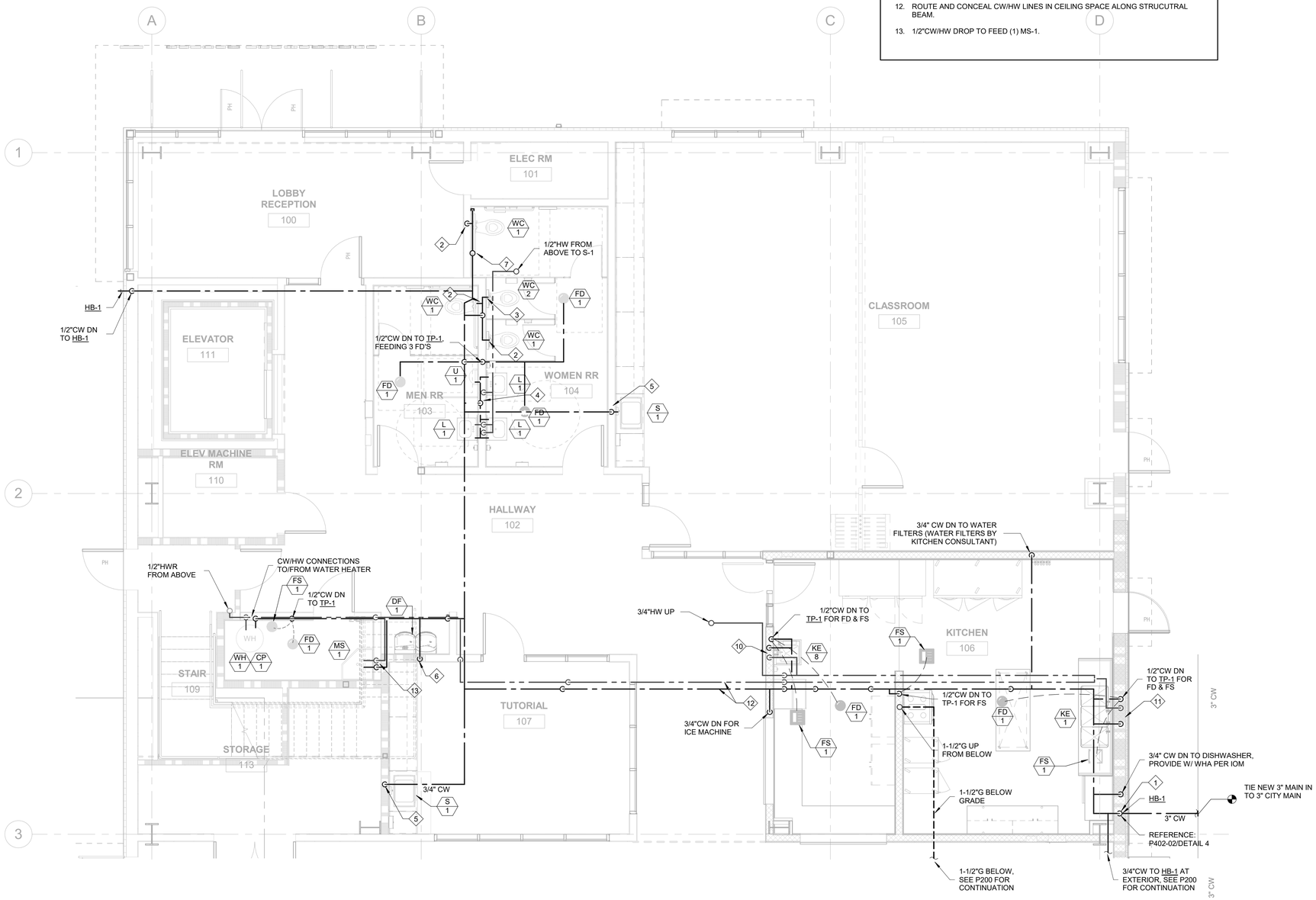

1 FIRST LEVEL PLUMBING PLAN - DOMESTIC WATER PLAN
1/4" = 1'-0"

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MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

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SHEET TITLE
FIRST LEVEL ENLARGED DOMESTIC WATER PLAN

SHEET NUMBER:
P203-02

WASTE & VENT SHEET NOTES

1. 4"W & 2"V FOR WC-1.
2. 2"W & 1-1/2"V FOR L-1.
3. 2"W & 1-1/2"V FOR S-1.
4. 1-1/2"V UP FROM FD-2.
5. 2"W & 1-1/2"V FOR DF-1.
6. 1-1/2"V UP FROM S-1.
7. RUN 2"W FROM S-1 ALONG ELEVATOR WALL

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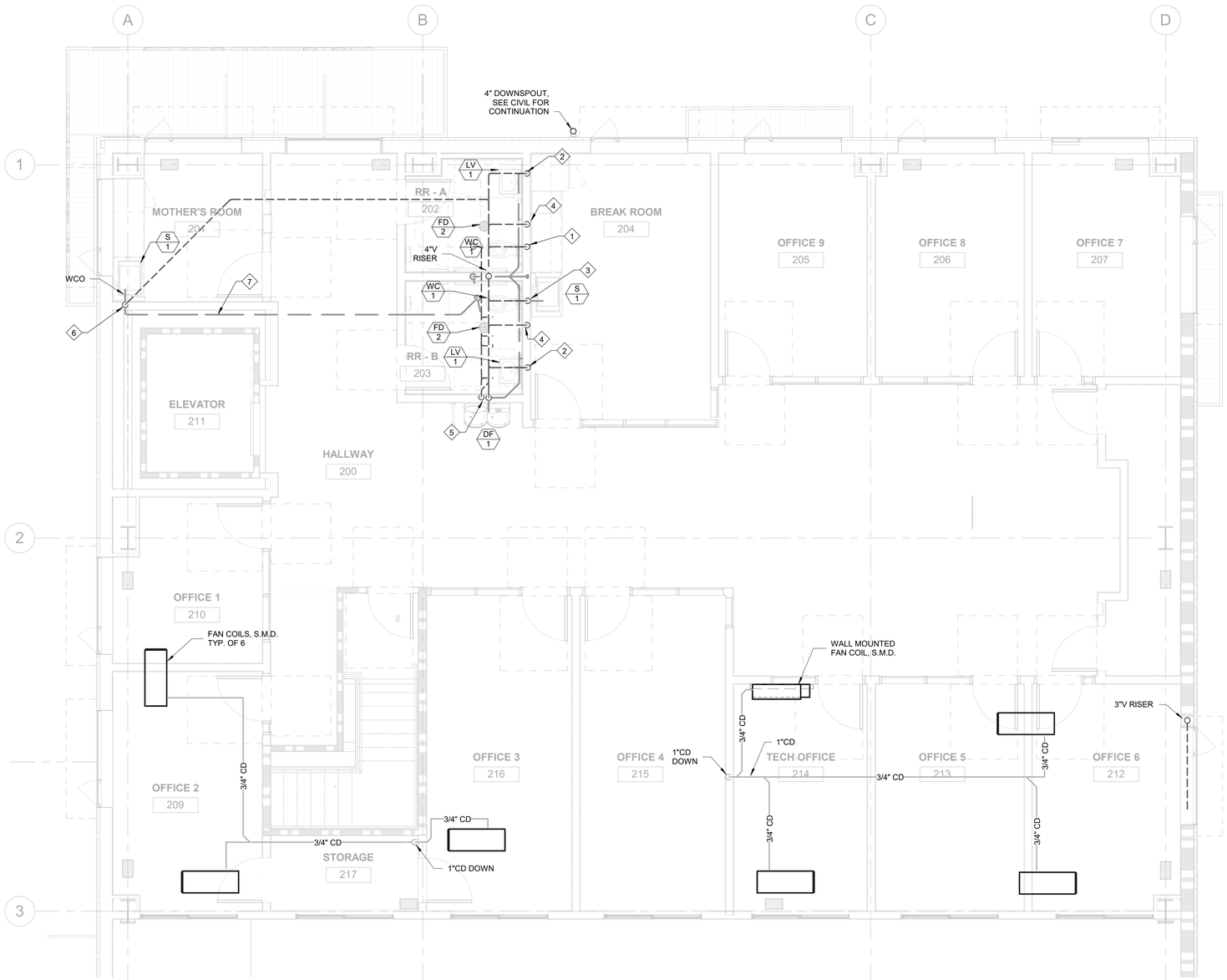

1 SECOND LEVEL PLUMBING PLAN
WASTE & VENT - RESTROOMS AND BREAK ROOM
1/4" = 1'-0"

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SHEET TITLE
SECOND LEVEL ENLARGED WASTE & VENT PLAN

SHEET NUMBER:
P204-02

DOMESTIC WATER SHEET NOTES

1. 1-1/2"CW DROP TO FEED (1) WC-1.
2. 1-1/2"CW DROP TO FEED WC-1 (1-1/2"CW) AND S-1 (3/4"CW). PROVIDE S-1 WITH 3/4"HW AS WELL.
3. 3/4"HW DN TO S-1.
4. 3/4"CW/HW DN TO S-1.
5. 3/4"CW DROP TO FEED (1) DF-1.
6. 1-1/2"CW MAIN RISER FROM FIRST FLOOR TO FEED SECOND FLOOR.
7. 3/4"CW/HW DROP TO FEED L-1.
8. 1/2"CW DN TO TP-1.
9. 3/4"HW FROM BELOW.
10. EXTEND 1/2"HWR FROM S-1 TO THE CEILING.
11. 1/2"HWR DN.

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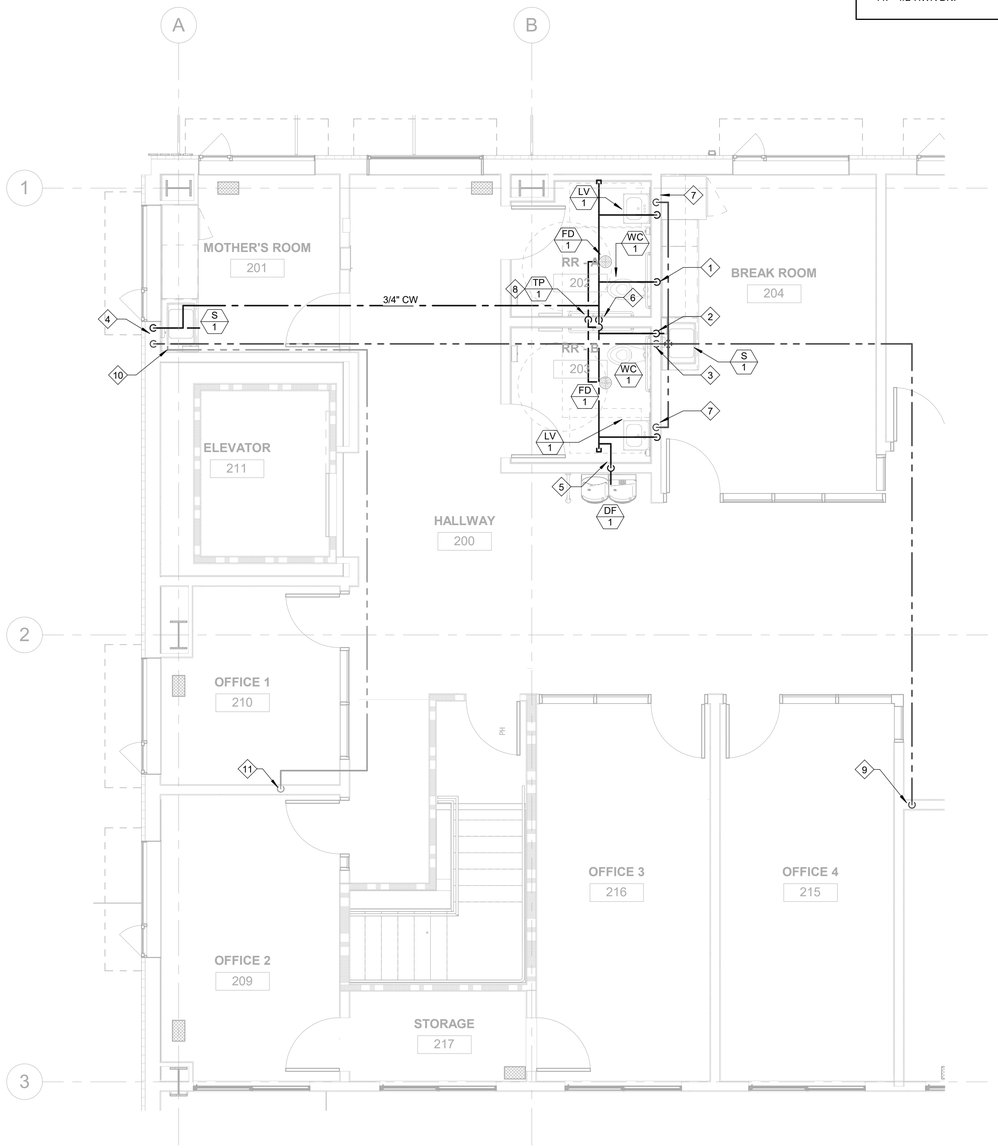

SECOND LEVEL PLUMBING PLAN - DOMESTIC WATER - RESTROOMS AND BREAK ROOM

1/4" = 1'-0"

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SHEET TITLE

SECOND LEVEL ENLARGED DOMESTIC WATER PLAN

SHEET NUMBER:

P205-02

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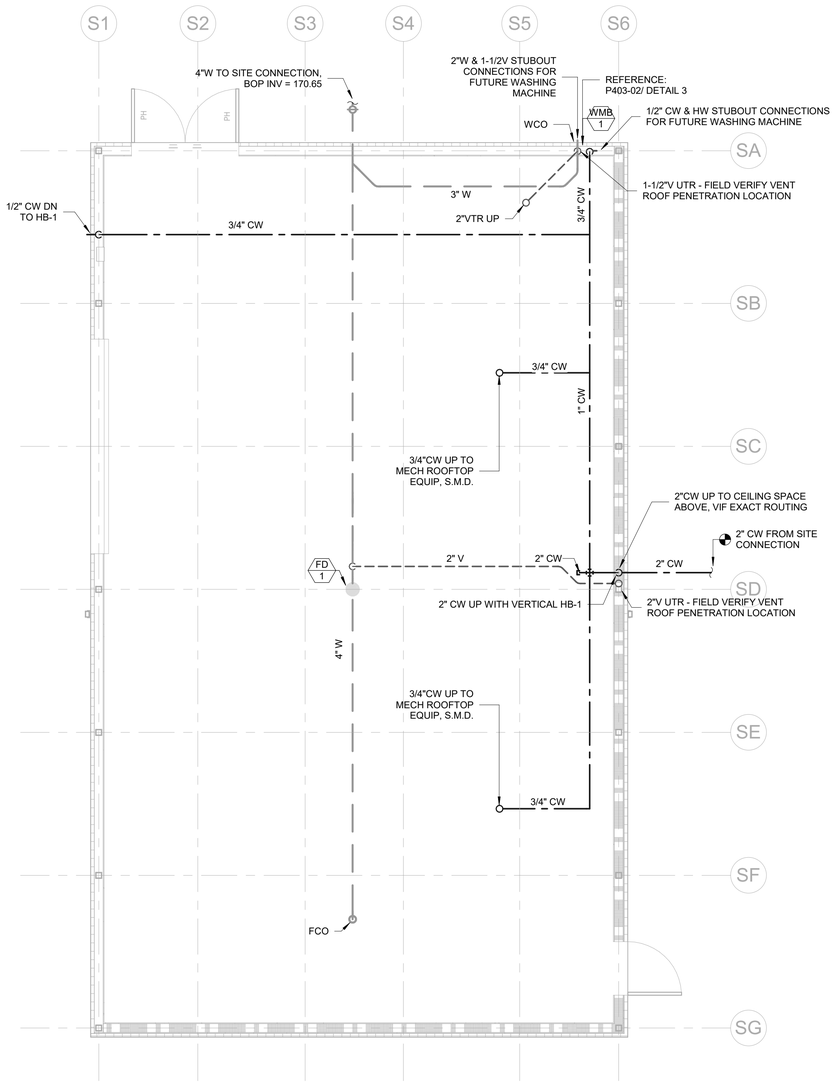
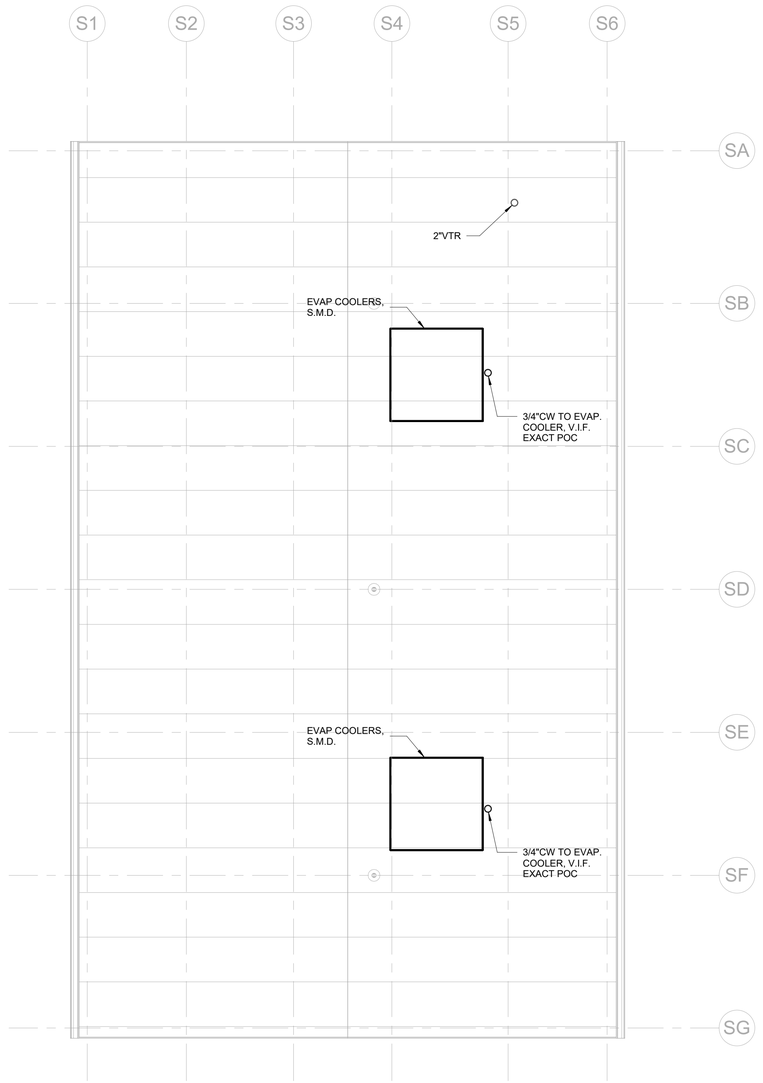


1 STORAGE BUILDING PLUMBING PLAN
1/4" = 1'-0"



2 STORAGE BUILDING ROOF PLUMBING PLAN
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SHEET TITLE
STORAGE BUILDING PLUMBING PLAN

SHEET NUMBER:
P206-02

INSTALLATION GUIDELINES:

1) Polyethylene (PE) gas piping shall be installed outside, underground only. PE is not approved for indoor use or for encasement in concrete.

2) Underground gas piping shall be installed with sufficient clearance from any other underground structure to avoid contact, to allow maintenance, and to protect against damage from proximity to other structures. In addition, underground plastic piping shall be installed with sufficient clearance, or shall be insulated from any source of heat so as to prevent heat from impairing the serviceability and reliability of the pipe.

3) Careful attention should be paid to layout and routing to prevent excessive stressing of the piping where there is heavy vehicular traffic, or soil conditions are unstable and setting of piping could occur. ABS or PVC piping may be used for additional protection.

4) Piping shall be protected from physical damage where it passes through flowerbeds, shrub beds, and any other cultivated areas where damage is reasonably expected.

5) Polyethylene piping shall be installed so as to minimize thrust forces caused by expansion and contraction of the piping. Typical polyethylene piping will expand or contract 1 inch for every 10° F temperature change for every 100 feet of pipe.

6) Piping shall be buried or covered in a manner so as to protect the piping from physical damage and in accordance with the following guidelines.

   a) Cover Requirements – Underground piping systems shall be installed with at least 18 inches of coverage. The cover may be reduced to 12 inches if external damage to the pipe is not likely to result. If a minimum of 12 inches of cover cannot be maintained, the pipe shall be installed in a conduit or otherwise protected or shielded.

   b) Trenches – The trench shall be graded so that the pipe has a firm, substantially continuous bearing on the bottom of the trench. It should also be free of rocks and debris that would abrade the PE piping. This may require additional material such as loom, topsoil or sand to create a level surface.

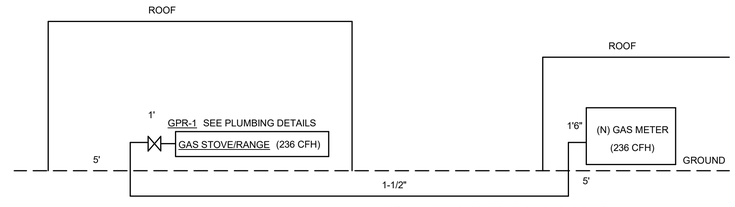
   c) Backfilling – Where flooding of the trench is done to consolidate the backfill, care should be exercised to see that the pipe is not floated from its firm bearing on the trench bottom.

7) An electrically continuous corrosion-resistant tracer wire (minimum AWG 14) or magnetic tape shall be buried with the polyethylene pipe to facilitate locating. One end shall be brought above the ground at a building wall or riser. The wire or tape shall not be in direct contact with the polyethylene pipe.

8) The maximum allowable pressure test shall be 125 psi and the maximum continuous pressure shall be 60 psi.

Note: The techniques outlines in this bulletin are recommended practice for generic applications. These practices must be reviewed for compliance with all local fuel gas and building codes. Where a conflict exists between these techniques and local requirements, local requirements will take precedence.

Con-Stab I.D. Seal® System Specifications Meets of Exceeds:
- NFPA-58 and NFPA-54
- ASTM D-2513, Category 1
- ASME B31.8-1995
- CAN/CSA-B137.4
- Listed with CSA
- Listed with IAMPO/UPC
- US DOT Part 192.283
- ISO 4437



1 GAS DIAGRAM
12" = 1'-0"

LOW PRESSURE GAS PIPE SIZE CHART

BASED ON THE NATURAL GAS HAVING A SPECIFIC GRAVITY OF 0.60, INLET PRESSURE OF LESS THAN 2 PSI, A PRESSURE SETTING OF 7" WATER COLUMN, A PRESSURE DROP OF 0.5 INCHES OF WATER COLUMN AND A TOTAL DEVELOPED LENGTH OF 200 FEET. PER TABLE 1215.2(1) 2022 CPC.

PIPE SIZE	CFH
1/2"	34
3/4"	71
1"	134
1-1/4"	275
1-1/2"	412
2"	794
2-1/2"	1,270
3"	2,240

EQUIPMENT GAS LOADS

GAS LINE FROM GAS METER TO EQUIPENT FOR PROJECT SCOPE

LOCATION	ITEM	EQUIPMENT	QUANTITY	INDIVIDUAL CAPACITY (BTU)	SUBTOTAL (CFH)	GAS CONNECTION
KITCHEN		GAS COOKING RANGE	1	236,000	236	3/4"
TOTAL					236	

TABLE 1215.2(19)
POLYETHYLENE PLASTIC PIPE [NFPA 54:TABLE 6.2.1(t)]*

						GAS:	NATURAL	
						INLET PRESSURE:	LESS THAN 2 psi	
						PRESSURE DROP:	0.3 in. w.c.	
						SPECIFIC GRAVITY:	0.60	
	PIPE SIZE (inch)							
NOMINAL OD:	1/2	3/4	1	1 1/4	1 1/2	2	3	4
DESIGNATION:	SDR 9.3	SDR 11	SDR 11	SDR 10	SDR 11	SDR 11	SDR 11	SDR 11
ACTUAL ID:	0.660	0.860	1.077	1.328	1.554	1.943	2.864	3.682
LENGTH (feet)	CAPACITY IN CUBIC FEET OF GAS PER HOUR							
10	153	305	551	955	1440	2590	7170	13 900
20	105	210	379	656	991	1780	4920	9520
30	84	169	304	527	796	1430	3950	7640
40	72	144	260	451	681	1220	3380	6540
50	64	128	231	400	604	1080	3000	5800
60	58	116	209	362	547	983	2720	5250
70	53	107	192	333	503	904	2500	4830
80	50	99	179	310	468	841	2330	4500
90	46	93	168	291	439	789	2180	4220
100	44	88	159	275	415	745	2060	3990
125	39	78	141	243	368	661	1830	3530
150	35	71	127	221	333	598	1660	3200
175	32	65	117	203	306	551	1520	2940
200	30	60	109	189	285	512	1420	2740

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SHEET TITLE
GAS PIPING DIAGRAM

SHEET NUMBER:
P301-02

BUILDING PIPING MATERIAL SCHEDULE

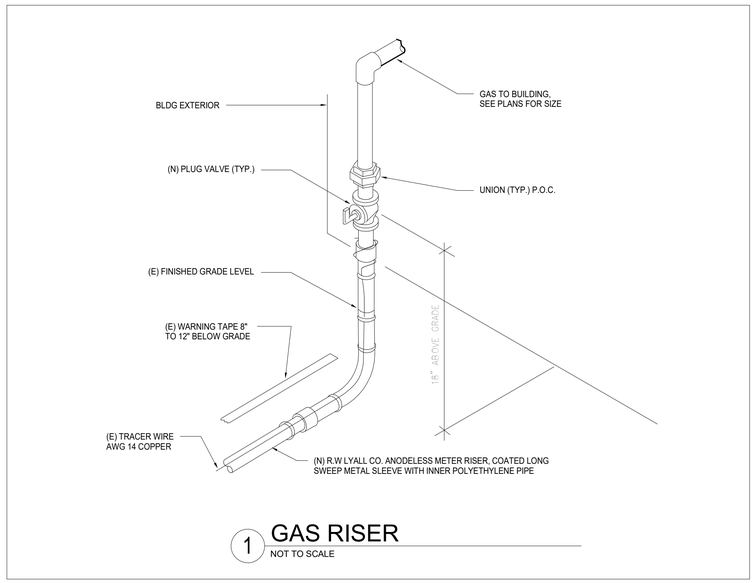
PIPE		NO-HUB CAST IRON	DWV COPPER	TYPE L COPPER	TYPE M COPPER	SCH 40 BLACK STEEL
SANITARY SEWER PIPE	BELOW GRADE	X				
	ABOVE GRADE	X				
SANITARY SEWER VENT	BELOW GRADE	X				
	ABOVE GRADE	X	X			
DOMESTIC WATER	BELOW GRADE					
	ABOVE GRADE			X		
NATURAL GAS	BELOW GRADE			X		X
	ABOVE GRADE					X
CONDENSATE DRAIN	INTERIOR ABOVE GRADE				X	
STORM	BELOW GRADE					
	ABOVE GRADE					
IRRIGATION	BELOW GRADE					
	ABOVE GRADE					

NOTES:
1. SUSPENDED PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.3.
2. HANGER ROD SIZES SHALL BE NO SMALLER THAN THOSE SHOWN IN CPC TABLE 313.6.

TABLE 4.303.2
FIXTURE FLOW RATES

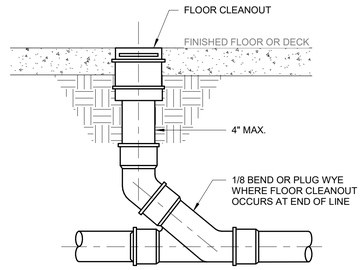
FIXTURE TYPE	FLOW RATE	MAXIMUM FLOW RATE AT > 20% REDUCTION
SHOWERHEADS	2.5 GPM @80PSI	1.8 GPM @80 PSI
LAVATORY FAUCETS, NON-RESIDENTIAL	2.2 GPM @60PSI	0.5 GPM @60 PSI
KITCHEN FAUCETS	2.2 GPM @60PSI	1.8 GPM @60 PSI
GRAVITY TANK TYPE WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
FLUSHOMETER TANK WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
FLUSHOMETER VALVE WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
ELECTROMECHANICAL HYDRAULIC WATER CLOSES	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
URINALS	1.0 GALLONS/FLUSH	0.125 GALLONS/FLUSH

1. INCLUDES SINGLE AND DUAL FLUSH WATER CLOSET WITH AN EFFECTIVE FLUSH OF 1.28 GALLONS OR LESS
   SINGLE FLUSH TOILETS - THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS) THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.233.2
   DUAL FLUSH TOILETS - THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS) THE EFFECTIVE FLUSH VOLUME IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OR TWO REDUCED FLUSHES AND ONE FULL FLUSH. FLUSH VOLUME WILL BE TESTED IN ACCORDANCE WITH ASME A112.19.2 AND ASME A112.19.14

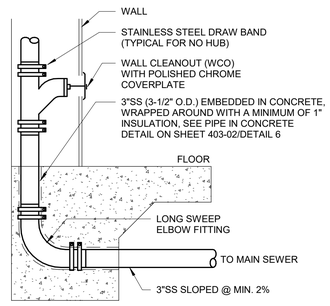


1 GAS RISER
NOT TO SCALE

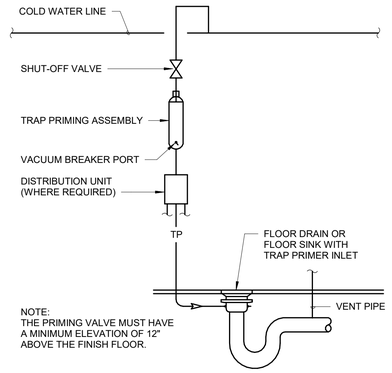
8 GAS RISER
NO SCALE



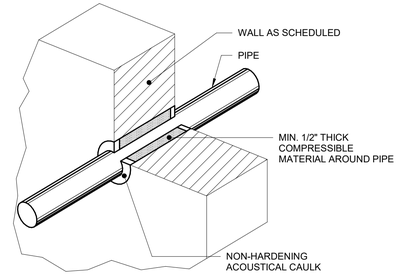
5 FLOOR CLEANOUT
NO SCALE



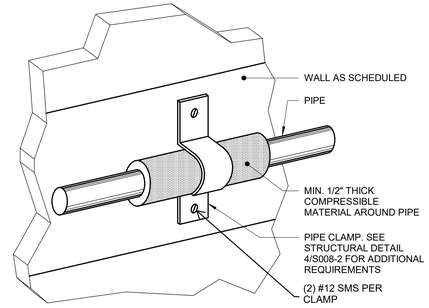
6 WALL CLEAN OUT
NO SCALE



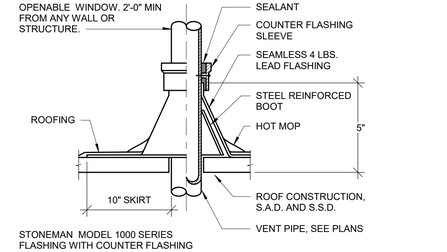
7 TRAP PRIMER INSTALLATION DETAIL
NO SCALE



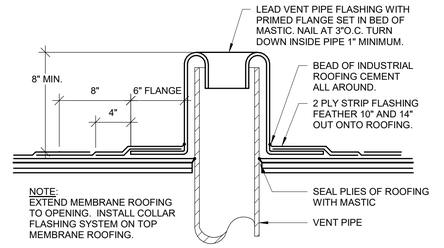
1 PIPE PENETRATION THROUGH WALL
NO SCALE



2 PIPE ISOLATION FROM STRUCTURE
NO SCALE



3 PIPE THRU ROOF DETAIL
NO SCALE



4 VENT PIPE FLASHING DETAIL
NO SCALE

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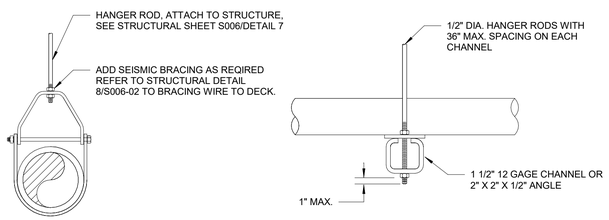
SHEET TITLE
DETAILS

SHEET NUMBER:
P401-02

MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET								
NOM. SIZE	THRU 1"	1	1 1/4	1 1/2	2	2 1/2	3	4
STEEL (SCHD 40)	7FT	7	7	9	10	11	12	14
COPPER TUBE (TYPE L OR M)	5FT	6	7	8	8	9	10	12
NOTE* FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE								



ADJUSTABLE CLEVIS HANGER | TYPE 1 IN SPECIFICATIONS | SIDE VIEW

TRAPEZE HANGER FOR UP TO 180 LB UNIFORM LOAD

8 PIPE HANGING
NO SCALE

TABLE 1210.2.4.1 SUPPORT OF PIPING (NFPA 54: TABLE 7.2.6.2			
STEEL PIPE NOMINAL SIZE OF PIPE (INCHES)	SPACING OF SUPPORTS (FEET)	NOMINAL SIZE OF TUBING SMOOTH WALL (INCHES O.D.)	SPACING OF SUPPORTS (FEET)
1/2"	6	1/2"	4
3/4" OR 1"	8	5/8" OR 3/4"	6
1-1/4" OR LARGER (HORIZONTAL)	10	7/8" OR 1" (HORIZONTAL)	8
1-1/4" OR LARGER (VERTICAL)	EVERY FLOOR LEVEL	1" OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

FOR SI UNITS: 1 INCH = 25 MM, 1 FOOT = 304.8 MM

9 TABLE 1210.2.4.1 - SUPPORT OF PIPING
NO SCALE

TABLE 313.3
HANGERS AND SUPPORTS

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
Cast	Lead and Oakum	5 feet, except 10 feet where 10 foot lengths are installed[1, 2, 3]	Base and each floor, not to exceed 15 feet
	Compression Gasket	Every other joint, unless over 4 feet then support each joint[1, 2, 3]	Base and each floor, not to exceed 15 feet
Cast-Iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet then support each joint[1, 2, 3, 4]	Base and each floor, not to exceed 15 feet
Copper & Copper Alloys	Soldered, Brazed, Threaded, or Mechanical	1 1/2 inches and smaller, 6 feet; 2 inches and larger, 10 feet	Each floor, not to exceed 10 feet[5]
Steel Pipe for Water or DWV	Threaded or Welded	3/4 inch and smaller, 10 feet; 1 inch and larger, 12 feet	Every other floor, not to exceed 25 feet[5]
Steel Pipe for Gas	Threaded or Welded	1/2 inch, 6 feet; 3/4 inch and 1 inch, 8 feet; 1 1/4 inches and larger, 10 feet	1/2 inch, 6 feet; 3/4 inch and 1 inch, 8 feet; 1 1/4 inches every floor level
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet; allow for expansion every 30 feet[3]	Base and each floor; provide mid-story guides; provide for expansion every 30 feet
CPVC	Solvent Cemented	1 inch and smaller, 3 feet; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
CPVC-AL-CPVC	Solvent Cemented	1/2 inch, 5 feet; 3/4 inch, 65 inches; 1 inch, 6 feet	Base and each floor; provide mid-story guide
Lead	Wiped or Burned	Continuous Support	Not to exceed 4 feet
Steel	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction	
PEX	Cold Expansion, Insert and Compression	1 inch and smaller, 32 inches; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
PEX-AL-PEX	Metal Insert and Metal Compression	1/2 inch, 3/4 inch, 1 inch: All sizes 98 inches	Base and each floor; provide mid-story guides
PE-AL-PE	Metal Insert and Metal Compression	1/2 inch, 3/4 inch, 1 inch: All sizes 98 inches	Base and each floor; provide mid-story guides
PE-RT	Insert and Compression	1 inch and smaller, 32 inches; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides
Polypropylene (PP)	Fusion weld (socket, butt, saddle, electrofusion), threaded (metal threads only), or mechanical	1 inch and smaller, 32 inches; 1 1/4 inches and larger, 4 feet	Base and each floor; provide mid-story guides

For SI units: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

Notes:

1 Support adjacent to joint, not to exceed 18 inches (457 mm).

2 Brace not to exceed 40 foot (12192 mm) intervals to prevent horizontal movement.

3 Support at each horizontal branch connection.

4 Hangers shall not be placed on the coupling.

5 Vertical water lines shall be permitted to be supported in accordance with recognized engineering principles with regard to expansion and contraction, where first approved by the Authority Having Jurisdiction.

10 HANGER AND SUPPORTS TABLE
NO SCALE

PACK SPACE BETWEEN PIPING AND PENETRATION OPENING WITH MATERIAL APPROVED BY UNDERWRITERS LABORATORIES FOR THROUGH PENETRATION FIRE STOP SYSTEMS. MATERIALS, METHODS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH UL APPROVED LISTING AND SHALL BE DESIGNED TO ACT AS A FIRESTOP AS WELL AS A COLD SMOKE, NOXIOUS GAS & WATER SEALANT. SUBMIT LISTING NUMBERS & DETAILS FROM UL FIRE RESISTANT DIRECTORY FOR ALL SUCH SYSTEMS TO BE USED.

THROUGH-PENETRATION FIRESTOPPING:
Provide UL-listed through-penetration firestop systems for all metallic piping penetrating rated floors and walls. Acceptable UL systems include:

Concrete Floors: UL F-A-2017, F-A-2066, F-A-2114

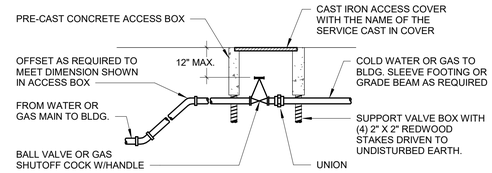
Concrete/Masonry Walls: UL W-J-1074, W-J-1097

Gypsum Stud Walls: UL W-L-1054, W-L-1016
Install per UL listing and manufacturer's instructions. Approved equal systems permitted.

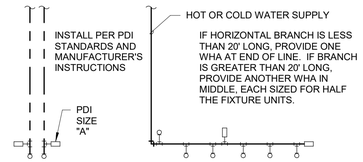
USE FOLLOWING APPLICABLE UL SYSTEMS FOR THE CONSTRUCTION TYPES LISTED

CONSTRUCTION TYPE	THROUGH-PENETRATION FIRESTOP SYSTEM NUMBERS
CONCRETE FLOOR	61, 91, 94, 95, 129, 201, 202, 233, 281
CONCRETE OR MASONSRY WALLS	49, 63, 91, 202
GYPSUM WALLBOARD/ STUD WALLS	147, 148

4 FIRESTOP DETAIL - METALLIC PIPES
NO SCALE



5 SHUT-OFF VALVE CONCRETE YARD BOX
NO SCALE

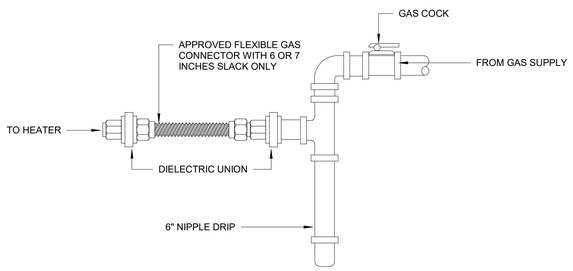


SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 ANS ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS PER MANUFACTURER'S INSTRUCTIONS.

6 WATER HAMMER ARRESTOR
NO SCALE



7 GAS CONNECTION
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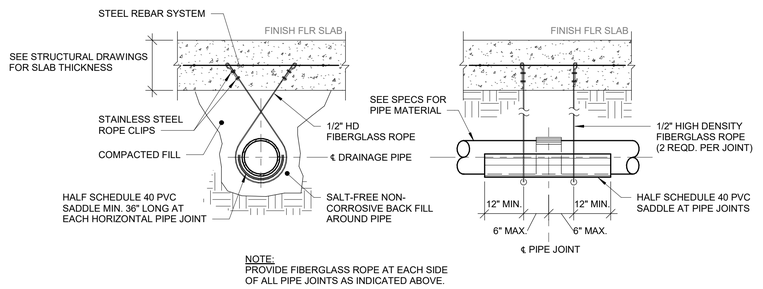
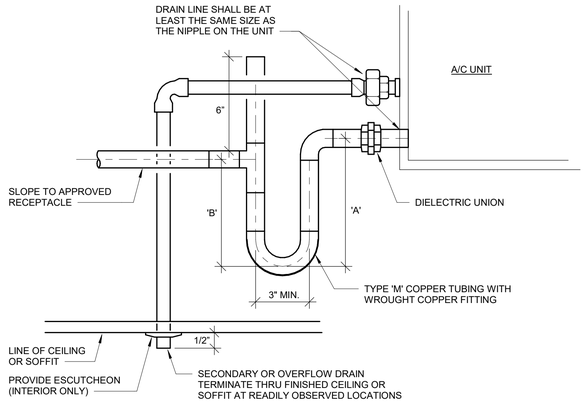


NOTE:
PROVIDE FIBERGLASS ROPE AT EACH SIDE OF ALL PIPE JOINTS AS INDICATED ABOVE.

DETAIL MAY BE ELIMINATED PROVIDED THE SITE IS PREPARED IN ACCORDANCE WITH THE GEOTECH RECOMMENDATIONS TO MINIMIZE SETTLEMENT AFFECTING THE UTILITIES.

1 BELOW SLAB AT GRADE DRAINAGE PIPE SUPPORT SYSTEM
NO SCALE



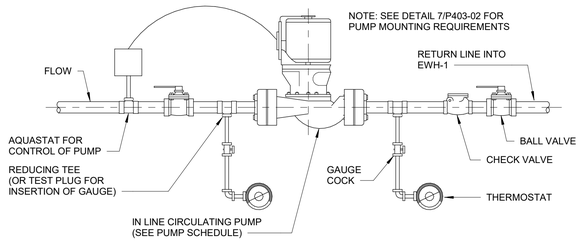
NOTE:
IF HORIZONTAL RUN IS GREATER THAN 15 FT., INSTALL VENT, SAME SIZE AS DRAIN.

TONS	DRAIN SIZE
0-20	3/4"
21-40	1"
41-90	1-1/4"

UNIT TYPE	'A'	'B'
DRAW THRU	S.P. x 1.5+2"	S.P. x 0.5+1"
BLOW THRU	S.P. x 1.5+2"	S.P. x 1.5+2"

S.P. = SYSTEM STATIC PRESSURE - INCHES

2 C.D. TRAP FOR MECHANICAL HVAC UNITS
NO SCALE



3 CIRCULATING PUMP ASSEMBLY
NO SCALE

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SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
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DETAILS

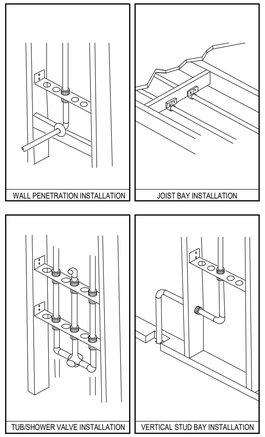
SHEET NUMBER:
P402-02

TABLE FOR HANGERS AND SUPPORT

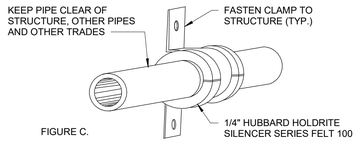
PIPE SIZES	MATERIAL	TYPE OF JOINTS	HORIZONTAL	VERTICAL	HANGER ROD SIZE
1-1/2" - 4"	CAST IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT, SEE NOTES # 1,2,3 & 4	BASE AND EACH FLOOR A MAXIMUM OF 15 FEET. VERTICAL	3/8"
6"	CAST IRON HUBLESS	SHIELDED COUPLING	EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT, SEE NOTES # 1,2,3 & 4	BASE AND EACH FLOOR A MAXIMUM OF 15 FEET. VERTICAL	1/2"

NOTES:
1. SUPPORT ADJACENT TO JOINT, A MINIMUM OF EIGHTEEN (18) INCHES.
2. BRACE AT A MAXIMUM OF 40 FEET INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
3. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
4. HANGERS SHALL NOT BE PLACED ON THE COUPLING.

1 TABLE FOR HANGERS AND SUPPORT
NO SCALE



ACOUSTICAL PLUMB SYSTEM INSTALLATION EXAMPLES
(PIPES 1" DIAMETER OR LESS)

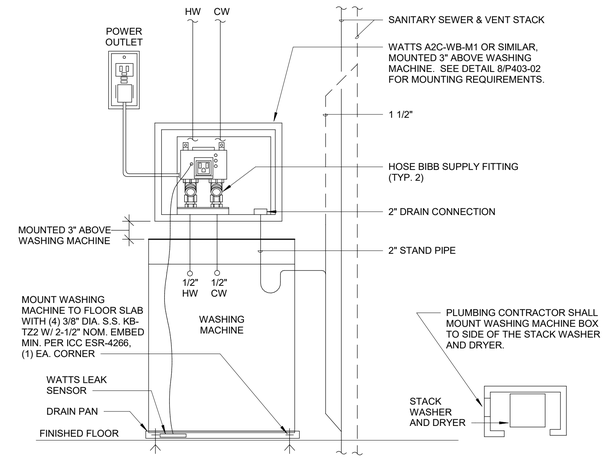


ACOUSTICAL TREATMENT OF LARGE PLUMBING PIPES
(PIPE GREATER THAN 1" DIAMETER)

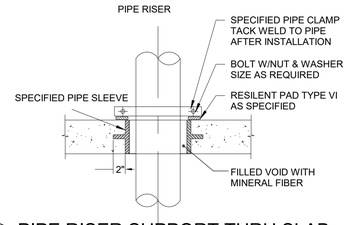
2 TYPICAL PIPE ACOUSTICAL ISOLATION
NO SCALE

NOISE CONTROL GUIDELINES FOR PLUMBING AND DRAIN SYSTEMS

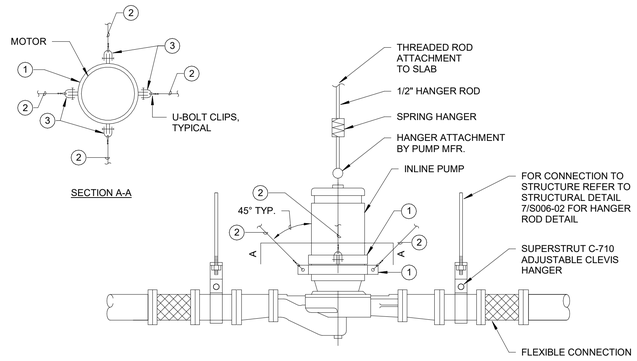
1. ISOLATION: TO MINIMIZE OR ELIMINATE WATER-FLOW NOISE, ALL SUPPLY, HOT-WATER HEATING, WASTE AND DRAIN PIPING MUST BE VIBRATION ISOLATED.
   - A. FOR SUPPLY WATER PIPING 1-INCH DIAMETER HOLDERS, AND GUIDES, AS MANUFACTURED BY LSP/SPECIALTY PRODUCTS COMPANY, TEL: (800) 854-3215. APPROVED EQUAL: HOLDRITE BY HUBBARD ENTERPRISES REPRESENTED BY BUFFINGTON & ASSOCIATES JOHN ROSE AT (510) 760-7492.
   - B. ISOLATE WASTE PIPES AND SUPPLY WATER PIPES MORE THAN 1-INCH IN DIAMETER AS SHOWN IN FIGURE C OR USE THE TRISOLATOR SYSTEM OF PIPE ISOLATORS, AS MANUFACTURED BY ELMDOR/STONEMAN TEL: (818) 635-8699.
   - C. DO NOT ALLOW THE PIPING, PIPE CONNECTORS, PIPE HANGERS, OR VALVES TO DIRECTLY TOUCH THE STRUCTURE, STUDS, GYPSUM BOARD, OR OTHER PIPES.
   - D. SUPPORT PIPE AS REQUIRED BY CALIFORNIA PLUMBING CODE.
2. MISCELLANEOUS
   - A. INSTALL 3-1/2-INCH BATT INSULATION IN OTHERWISE UNINSULATED STUD AND JOIST SPACES CONTAINING WATER PIPING.
   - B. DO NOT LOCATE SUPPLY OR WASTE WATER PIPES CLOSER THAN 2 INCHES FROM GYPSUM BOARD IN WALLS OR CEILINGS OF ACOUSTICALLY SENSITIVE ROOMS SUCH AS BEDROOMS, LIVING ROOMS, DINING ROOMS, AND STUDIES.
   - C. IN NO CASE SHOULD THE PLUMBING PIPING OF ONE DWELLING UNIT BE CLOSER THAN 1 INCH FROM GYPSUM BOARD IN WALL OR CEILING.



3 TYPICAL WASHING MACHINE HOOK-UP
NO SCALE

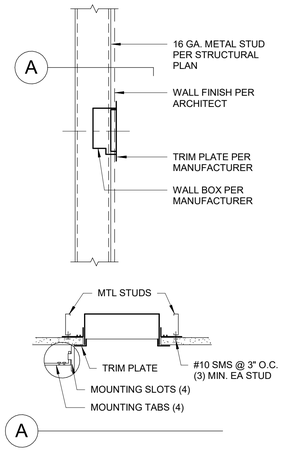


6 PIPE RISER SUPPORT THRU SLAB
NO SCALE

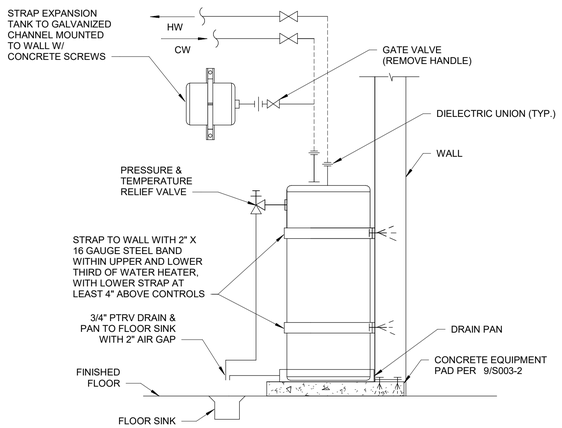


NOTES:
1. PIPE CLAMP AROUND MOTOR.
2. SEISMIC RESTRAINT CABLE, PROVIDE 3/8" DIAM. AIRCRAFT CABLE, TYPICAL OF 4. PROVIDE UPPER ATTACHMENT TO SLAB. REFER TO STRUCTURAL DETAIL 8/S006-02 FOR BRACING WIRE/CABLE ATTACHMENT TO STRUCTURE.
3. 1/2" ROUND PIN CHAIN SHACKLE WITH 5/8"Ø PIN, TYPICAL.

7 IN-LINE PUMP MOUNTING
NO SCALE



8 RECESSED WALL BOX
NO SCALE



5 ELECTRIC WATER HEATER DETAIL
NO SCALE

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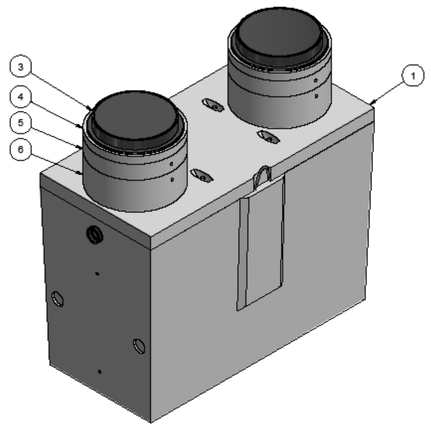
SHEET TITLE
DETAILS

SHEET NUMBER:
P403-02

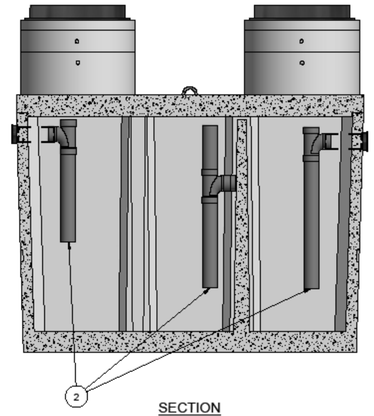
NOTES
■ IN COMPLIANCE WITH UNIFORM PLUMBING CODE (UPC), INTERNATIONAL PLUMBING CODE (IPC), AND STRUCTURAL LOADING REQUIREMENTS OF ASTM INTERNATIONAL C1613.
■ JENSEN PRECAST'S PRODUCT IS LISTED BY IAPMO R&T TO STANDARD Z1001. MODEL JP-750-EE-G
■ MUST BE INSTALLED PER "JENSEN PRECAST UNDERGROUND WASTEWATER PRECAST CONCRETE TANK INSTALLATION PROCEDURE" WHICH CAN BE FOUND AT https://www.jensenprecast.com/Tank-Installation-Procedure-d2106.pdf. THIS PROCEDURE ADDRESSES REQUIRED EXCAVATION, SITE PREPARATION, INSTALLATION, VENTILATION, AND WATER/VACCUM TESTING

BILL OF MATERIALS

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT (LBS)
1	1	200030186	Tank JP 750 Gallon 4 Inch Assembly .24"E, 24"E Single Baffle	9621
2	1	200048766	200030231 Plumbing - JP 750 4 Inch Gravity Grease Interceptor 24"E, 24"E Single Baffle	10
3	JOB SPECIFIC	100005850	CI RINGCOVER 24DIA B-5105-02/B-5105-R2 ASTM A48 CL35B CP O-RING GASKET OSI JENSEN/INTERCEPT	196
4	JOB SPECIFIC	100001524	Grade Ring D2432x3	87
5	JOB SPECIFIC	100001525	Grade Ring D2432x6	180
6	JOB SPECIFIC	100001526	Grade Ring D2432x12	365
7	JOB SPECIFIC	100012046	Plug Cover D2428x6 Slab Top	300



ISO LAYOUT



SECTION

200030231.sldprt

MODEL:
JP-750-EE-G

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	DRAWING CREATED	10/2/2019	J HILLMAN
B	TOP SLAB LIFTING AND PLUMBING UPDATED	2/4/2021	C.Keller
C	PRODUCT WEIGHT UPDATE	4/29/2021	BGD
D	ACCESSORIES UPDATED	6/29/2022	E.FINE

BURY DEPTH:	1.1' - 6.0' to Top		
WATER LEVEL:	Below Structure	WEIGHT:	11587.7 Lbs
DESIGN SPEC:	ASTM C890,ACI 318	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:		LIFTING TYPE:	

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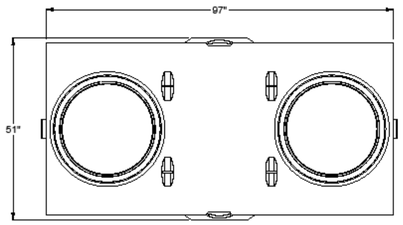
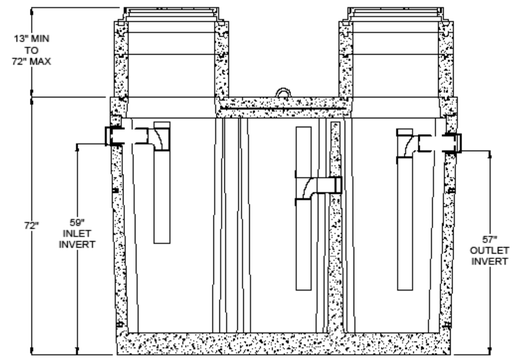
DESCRIPTION:	Tank JP 750 Gallon 4 Inch Layout Gravity Grease Interceptor 24"E, 24"E Single Baffle		
	LAYOUT REVIEW		
PART NUMBER:	200030231	DRAWN BY:	E. Fine
CREATED:	1/31/2019	MODIFIED:	6/29/2022

REV: D-2
SHEET: 1 OF 2



PLAN VIEW



CROSS SECTION

200030231.sldprt

BURY DEPTH:	1.1' - 6.0' to Top		
WATER LEVEL:	Below Structure	WEIGHT:	11587.7 Lbs
DESIGN SPEC:	ASTM C890,ACI 318	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:		LIFTING TYPE:	

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DESCRIPTION:	Tank JP 750 Gallon 4 Inch Layout Gravity Grease Interceptor 24"E, 24"E Single Baffle		
	LAYOUT DRAWING		
PART NUMBER:	200030231	DRAWN BY:	E. Fine
CREATED:	1/31/2019	MODIFIED:	6/29/2022

REV: D-2
SHEET: 2 OF 2

1 GREASE INTERCEPTOR
NO SCALE

NOTE: UNIT IS FROM PCI CERTIFIED PLANT.
DSA STRUCTURAL REVIEW IS NOT REQUIRED.

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REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
DETAILS

SHEET NUMBER:
P404-02

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.	
Project Name: MERCED PC BUILDING & 2ND FLOOR	**Report Page:** (Page 1 of 8)
Project Address: MARS/ELO-P FACILITY MCSD - 26TH ST.	**Date Prepared:** 2025-06-25T17:49:13-04:00

A. GENERAL INFORMATION

01	Project Location (city)	MERCED	02	Climate Zone	12
03	Occupancy Types Within Project (select all that apply):				

● Classroom ● Gymnasium ● Office ● School or Classroom

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.5/ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time)	Central System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
Project Name: MERCED PC BUILDING & 2ND FLOOR	**Report Page:** (Page 2 of 8)
	Date Prepared: 2025-06-25T17:49:13-04:00

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
Project Name: MERCED PC BUILDING & 2ND FLOOR	**Report Page:** (Page 3 of 8)
	Date Prepared: 2025-06-25T17:49:13-04:00

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04			05		06		
System Name	WH-1	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-1	Commercial Electric Storage Water Heater	80						0.6	0.64

[1] *FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*
[2] *FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☒	☐	☐	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
Project Name: MERCED PC BUILDING & 2ND FLOOR	**Report Page:** (Page 4 of 8)
	Date Prepared: 2025-06-25T17:49:13-04:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

	Yes	No	Not Applicable	Requirement
01	●	○	○	Air release valve or vertical pump installation per 110.3(c)4A
02	●	○	○	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per 110.3(c)4B
03	●	○	○	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per 110.3(c)4C
04	●	○	○	Isolation valves on both sides of the pump per 110.3(c)4D
05	●	○	○	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per 110.3(c)4E
06	●	○	○	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per 110.3(c)4F
07	○	○	●	DWELLING UNITS ONLY: For central systems serving multiple dwelling units, design includes a recirculation system serving separate dwelling units per 170.2(d) unless building has <=8 dwelling units.
08	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the hot water return from the recirculation loop shall connect to a recirculation loop tank and shall not directly connect to the primary heat pump water heater inlet or the primary thermal storage tanks per 170.2(d)2A.
09	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the fuel source for the recirculation loop tank shall be electricity if auxiliary heating is needed. The recirculation loop heater shall be capable of multi-pass water heating operation per 170.2(d)2B.

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
Project Name: MERCED PC BUILDING & 2ND FLOOR	**Report Page:** (Page 5 of 8)
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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
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H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☒	☐	☐	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
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I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
Project Name: MERCED PC BUILDING & 2ND FLOOR	**Report Page:** (Page 8 of 8)
Project Address: MARS/ELO-P FACILITY MCSD - 26TH ST.	**Date Prepared:** 2025-06-25T17:49:13-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Rae Korsboe	Documentation Author Signature:
Company: BELDEN CONSULTING INC	Signature Date: 06/25/2025
Address: 6700 KOLL CENTER PARKWAY	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: PLEASANTON CA 94566	Phone: (925) 621-5328

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: Marcus Tam	Responsible Designer Signature:
Company: Belden Consulting Engineers	Date Signed: 06/25/2025
Address: 6700 Koll Center Parkway, Suite 300, Pleasanton, CA 94566	License: M31601
City/State/Zip:	Phone:

12/18/2025 11:01:04 AM © YC+D, 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

CONSULTANT:

BELDEN CONSULTING ENGINEERS
6700 Koll Center Parkway, Suite 300
Pleasanton, California 94566
phone: (925) 621-5300 fax: (925) 203-5758
belden@beldeninc.com

25039 / KM

CONSULTANT'S SEAL:

REGISTERED PROFESSIONAL ENGINEER MARCUS TAM M31601 Exp: 12/31/26 MECHANICAL STATE OF CALIFORNIA

THIS DRAWING AND THE DESIGNS, ARRANGEMENTS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE THE UNPUBLISHED WORK OF YC+D ARCHITECTS AND SHALL REMAIN THE PROPERTY OF YC+D ARCHITECTS IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, COPIED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF YC+D ARCHITECTS. VISUAL CONTACT WITH THE ABOVE DRAWINGS OR ANY PART THEREOF, SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
PLUMBING T-24

SHEET NUMBER:
P501-02

DELEGATED DESIGN ELEMENTS

A. DELEGATED DESIGN ELEMENTS ARE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ENGINEERING DOCUMENTATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

B. REFER TO SPECIFICATION FOR DELEGATED DESIGN DOCUMENTATION AND SUBMISSION REQUIREMENTS.

C. ALL DELEGATED DESIGN ELEMENTS SHALL BE PREPARED UNDER THE DIRECTION OF AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

D. DELEGATED DESIGN ELEMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING. REFER TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND SUBMISSION REQUIREMENTS:
1. DESIGN SUPPORTS FOR MULTIPLE RACEWAY SYSTEMS CAPABLE OF SUPPORTING THE COMBINED WEIGHT OF ALL RACEWAYS AND SUPPORT COMPOUNDS.
2. DESIGN HOUSEKEEPING PADS AND SUPPORT OF EQUIPMENT ATTACHED TO PAD TO WITHSTAND SEISMIC FORCES IMPOSED UPON THE EQUIPMENT.
3. DESIGN SUPPORTS FOR WALL MOUNTED ELECTRICAL EQUIPMENT.
4. DESIGN SUPPORTS FOR CEILING MOUNTED ELECTRICAL EQUIPMENT.
5. PROVIDE SHORT CIRCUIT STUDY USING ACTUAL EQUIPMENT FEEDER LENGTHS AND FEEDER SIZES.
6. PROVIDE ELECTRICAL COORDINATION STUDY USING ACTUAL EQUIPMENT PURCHASED FOR THIS PROJECT.
7. PROVIDE ARC FLASH STUDY USING ACTUAL EQUIPMENT, FEEDER LENGTHS AND SIZES.
8. DESIGN ACOUSTIC ENCLOSURE FOR EMERGENCY GENERATOR CONSIDERING SPACE CONSTRAINTS DEPICTED ON CONSTRUCTION DOCUMENTS AND ACTUAL SOUND LEVELS OF THE GENERATOR PURCHASED FOR USE ON THIS PROJECT. ENCLOSURE SHALL PROVIDE SOUND ATTENUATION TO ACHIEVE SOUND LEVELS AT DESIGNED POINTS AS INDICATED IN CONSTRUCTION DOCUMENTS.
9. LIFE SAFETY FIRE ALARM SYSTEM. DOCUMENTS SHALL BE PROVIDED AT 50%, 90%, AND 100% CONSTRUCTION DOCUMENTS AND SHALL INCLUDE THE FOLLOWING INFORMATION:
   a. 50% SUBMISSION:
      1. CEILING PLANS SHOWING COORDINATION BETWEEN FIRE ALARM DEVICES, LIGHTING FIXTURES, SPRINKLER SYSTEM, SPEAKERS AND OTHER CEILING MOUNTED DEVICES AND EQUIPMENT. DRAWINGS SHALL INCLUDE CEILING CHANGES IN ELEVATIONS AND CONSTRUCTION MATERIALS.
      2. FLOOR PLANS INDICATING LOCATION FOR ALL WALL MOUNTED INITIATION AND ANNUNCIATION DEVICES.
      3. LOCATIONS OF ALL DUCT DETECTORS, FIRE SMOKE DAMPERS, DOOR HOLD OPEN DEVICES, FIRE SEPARATION EQUIPMENT SUCH AS AUTOMATIC ROLL DOWN OR ACCORDION DOORS.
   b. 90% SUBMISSION:
      1. INCORPORATE ALL COMMENTS FROM 50% SUBMISSION REVIEW. PLANS SHOWING CONNECTIONS REQUIREMENTS, RACEWAYS AND CONDUCTORS BETWEEN FIRE ALARM DEVICES, LIGHTING FIXTURES, SPRINKLER SYSTEM, SPEAKERS AND OTHER CEILING MOUNTED DEVICES AND EQUIPMENT. INCLUDE FLOOR PLANS INDICATING CONNECTIONS FOR ALL WALL MOUNTED INITIATION AND ANNUNCIATION DEVICES, FIRE SEPARATION EQUIPMENT SUCH AS AUTOMATIC ROLL DOWN OR ACCORDION DOORS.
      2. DRAWINGS SHALL INCLUDE LOCATIONS WHERE 120 VOLT POWER IS REQUIRED AND INDICATE CONNECTED ELECTRICAL LOAD.
      3. RISER DIAGRAMS FOR COMPLETE SYSTEM.
      4. ELEVATIONS FOR WALL MOUNTED EQUIPMENT AND AT EACH CABINET OR ANNUNCIATION PANEL SHOWING EQUIPMENT IN RELATION TO ARCHITECTURAL AND STRUCTURAL ELEMENTS AND WORK OF OTHER TRADES.
      5. INSTALLATION AND WIRING DIAGRAM FOR ALL DEVICES AND CABINETS.
      6. PENETRATION DETAILS AND LOCATION.
   c. 100% SUBMISSION:
      1. INCORPORATE ALL COMMENTS FROM 50% AND 90% SUBMISSION REVIEW.
      2. COMPLETED PLANS SHOWING CONNECTIONS REQUIREMENTS, RACEWAYS AND CONDUCTORS BETWEEN FIRE ALARM DEVICES, LIGHTING FIXTURES, SPRINKLER SYSTEM, SPEAKERS AND OTHER CEILING MOUNTED DEVICES AND EQUIPMENT. INCLUDE FLOOR PLANS INDICATING CONNECTIONS FOR ALL WALL MOUNTED INITIATION AND ANNUNCIATION DEVICES, DUCT DETECTORS, FIRE SMOKE DAMPERS, DOOR HOLD OPEN DEVICES, FIRE SEPARATION EQUIPMENT SUCH AS AUTOMATIC ROLL DOWN OR ACCORDION DOORS AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
      3. DRAWINGS SHALL INCLUDE PANEL AND CIRCUIT INFORMATION WHERE 120 VOLT POWER IS REQUIRED.
      4. COMPLETED RISER DIAGRAMS FOR COMPLETE SYSTEM.
      5. COMPLETED INSTALLATION AND WIRING DIAGRAMS FOR ALL DEVICES AND CABINETS.
   d. PENETRATION DETAILS AND LOCATIONS
10. CATHODIC PROTECTIONS FOR METALLIC RACEWAYS, RACEWAY FITTINGS, SUPPORTS AND BOXES.

E. INFORMATION COORDINATION DOCUMENTS REQUIRED TO DEMONSTRATE COORDINATION BETWEEN ELECTRICAL AND WORK OF OTHER TRADES.
1. 1/4" SCALE EQUIPMENT LAYOUT DRAWINGS FOR ALL ELECTRICAL SPACES. DRAWING SHALL INCLUDE THE FOLLOWING INFORMATION:
   a. FLOOR PLANS LOCATING ALL EQUIPMENT, HOUSEKEEPING PADS, CEC REQUIRED WORKING SPACE AND MANUFACTURERS REQUIREMENTS.
   b. ARCHITECTURAL, STRUCTURAL ELEMENTS AND WORK OF OTHER TRADES THAT ARE LOCATED WITHIN THE ELECTRICAL SPACES.
   c. WALL ELEVATIONS OF ALL WALL THAT INCLUDE ELECTRICAL EQUIPMENT AND ATTACHMENT RECOMMENDATION FOR MOUNTING EQUIPMENT TO WALLS.

F. DESIGN FOOTINGS FOR POLE MOUNTED FIXTURES CONSIDERING FORCES IMPOSED ON THE POLE AND FIXTURES FROM WIND, ICE OR SEISMIC FORCES.

GENERAL NOTES

A. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THE CONTRACT. TOWARD THIS END, CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS NECESSARY, FURNISH AND INSTALL ALL APPARATUS, MATERIALS, AND EQUIPMENT IN A MANNER COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.

B. ALL CONDUCTORS SHALL BE COPPER, TYPE "THWN/THNN" 90 DEGREE INSULATION. ALL LUGS SHALL BE 75 DEGREE MINIMUM. ALL CONDUIT SHALL BE EMT OF RIGID STEEL. USE OF FLEX IS NOT ALLOWED TO BE USED FOR HOME RUNS.

C. BEFORE SUBMITTING THE BID PROPOSAL, CONTRACTOR SHALL VISIT THE JOB SITE TO FULLY FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS. REQUIREMENTS, INCLUDING ALL NECESSARY ADDITIONAL SCOPE OF WORK, WHETHER SHOWN ON DRAWING(S) OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.

D. CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND WIRING DIAGRAMS FOR ITEMS AND DEVICES TO BE FURNISHED, INSTALLED AND/OR CONNECTED FOR A COMPLETE AND OPERABLE HEATING, VENTILATION AND AIR CONDITIONING (HVAC) SYSTEM. VERIFY EXACT LOCATION OF THE HVAC EQUIPMENT AND CONDUIT TERMINATION AT EQUIPMENT WITH MECHANICAL CONTRACTOR.

E. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS. THE DRAWINGS SHALL BE FOLLOW AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULLBOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS.

F. ALL PERMITS SHALL BE PROCURED FROM ALL LEGALLY CONSTITUTED AUTHORITIES, ARRANGED FOR ALL INSPECTION AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH, COMPLY WITH CODES. PRESENT THE SIGNED CERTIFICATE OF FINAL INSPECTION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRESENTING THE WORK FOR FINAL ACCEPTANCE.

G. CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING.

H. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND ILLUMINATION FOR ALL TRADES. ALL COST OF LABOR AND COST OF MATERIAL REQUIRED FOR THE TEMPORARY ELECTRICAL SERVICE SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.

I. ELECTRICAL ROOM HAVING A TRANSFORMER(S) RATED 112.5KVA OR ABOVE SHALL BE PROVIDED WITH 1-HOUR FIRE-RATED ENCLOSURE.

J. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS, ACCEPTABLE MATERIALS, COORDINATION REQUIREMENTS, TESTING, STARTUP, TRAINING AND PROJECT CLOSEOUT.

K. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR. FOR LOCATION OF DISCONNECT SWITCH, COORDINATE WITH DIVISION 15 CONTRACTOR TO DETERMINE THE BEST LOCATION ON SITE WHILE REMAINING ACCESSIBLE.

L. CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.

M. PROVIDE PULL ROPE IN ALL EMPTY CONDUITS.

N. COORDINATE ROUTING OF RACEWAYS FEEDERS AND HOMERUNS IN COOPERATION WITH THE WORK OF OTHER TRADES.

O. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING AND POWER CONDUITS.

P. EXPOSED RACEWAY ON ROOF SHALL BE AMBIENT TEMPERATURE COMPENSATED PER NEC TABLE 310-15(B)(2)(C) BASED UPON DISTANCE RACEWAY IS MOUNTED ABOVE ROOF AND DESIGN TEMPERATURE OF ROOF.

Q. LIGHTING:
1. ALL LIGHTING FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING. COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING ALL FIXTURES MOUNTING HARDWARE TO FIT CEILING CONDITIONS AT NO EXTRA COST TO THE OWNER.
3. SEE ARCHITECTURAL CEILING PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION, LIGHTING PLACEMENT AND QUANTITIES.
4. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHTING FIXTURES.
5. LIGHTING IN ELECTRICAL, MECHANICAL TELE/COM AND EQUIPMENT ROOMS ARE SHOWN FOR QUANTITY ONLY. ACTUAL FIXTURE LOCATIONS TO BE DETERMINED AFTER COORDINATING WITH WORK OF ALL OTHER TRADES. FIXTURES TO BE LOCATED SO THAT MAINTENANCE AND LIGHT OUTPUT ARE NOT OBSTRUCTED. FIXTURES ARE TO BE INSTALLED AFTER ALL OTHER WORK IS SUBSTANTIALLY COMPLETE.
6. LIGHTING FIXTURES WEIGHING MORE THAN 20 POUNDS, BUT LESS THAN 56 POUNDS, SHALL HAVE TWO #12 GAUGE STEEL HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE CEILING SYSTEM, OR TO THE STRUCTURE ABOVE. (CEC 314.27(B))
7. WHEN INTERMEDIATE CEILING SYSTEMS ARE USED, #12 GAUGE STEEL HANGERS SHALL BE INSTALLED TO THE GRID MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE. (CEC 314.23 & 410.16)
8. ONLY INTERMEDIATE AND HEAVY-DUTY CEILING SYSTEMS MAY BE USED FOR THE SUPPORT OF LIGHTING FIXTURES. ALL LIGHTING FIXTURES SHALL BE PERMANENTLY ATTACHED TO THE CEILING SYSTEM. (CEC 410.16)

R. NO MORE THAN THREE CIRCUITS PER HOMERUN. DO NOT COMBINE HOMERUNS WITHOUT PRIOR APPROVAL.

S. NO INTERMEDIATE SPLICING OF FEEDERS OR BRANCH CIRCUITS SHALL BE DONE WITHOUT PRIOR APPROVAL.

T. POWER:
1. PROVIDE CONCRETE PADS (MINIMUM 4" HIGH OR AS INDICATED) FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT INSTALLED IN EQUIPMENT ROOMS AND IN AREAS SUSCEPTIBLE TO BEING WET OR HOSED DOWN. SUBMIT PAD DETAIL PLANS INCLUDING DIMENSION FOR APPROVAL.
2. THE LOCATION OF ALL OUTLETS SHALL BE COORDINATED WITH MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, WIRING DEVICES, AND DEDICATED EQUIPMENT OUTLETS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
3. ALL DISCONNECT SWITCHES SHALL BE PAD-LOCKABLE IN THE "OFF" POSITION.
4. ALL FEEDER LENGTH SHOWN ON SINGLE LINE DIAGRAM ARE FOR VOLTAGE DROP CALCULATION ONLY. DO NOT USE FOR ANY OTHER PURPOSES.
5. VERIFY AND COORDINATE EXACT LOCATION, POWER REQUIREMENTS AND METHOD OF CONNECTION OF ALL MECHANICAL EQUIPMENT AND PERTINENT ITEMS ARE DEVICES PRIOR TO INSTALLATION OF ELECTRICAL SYSTEM.
6. PROVIDE MINIMUM OF 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS, WHERE THEY ARE INSTALLED IN PARALLEL OR IN THE SAME TRENCH.
7. LABEL ALL RECEPTACLES, J-BOXES, DISCONNECT SWITCHES AND CONTROL DEVICES WITH THEIR SERVING CIRCUIT NUMBERS. LABELS SHALL BE PER THE SPECIFICATION.
8. PROVIDE A MINIMUM 24" HORIZONTAL SEPARATION THAT USUALLY APPLIES BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF THE WALL IN ORDER TO MAINTAIN THE FIRE-RESISTIVE RATING OF ASSEMBLIES WHERE PENETRATION OR OPENINGS ARE MADE.

U. GROUNDING:
1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED TO BOX AND DEVICE. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS.
2. GROUNDING OF CABLE TRAY SHALL BE PER NEC 392-7.

V. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENING MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL IN ACCORDANCE WITH CBC SECTION 709.6. SPACE BETWEEN PENETRATING MATERIAL (DESCRIBED BELOW) MUST BE DESIGNED TO PREVENT THE SPREAD OF HOT FLAME OR GASES.
1. COPPER OR FERROUS PIPES OR CONDUITS MAY PENETRATE THE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRESTOPPED.
2. OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES OR 100 SQUARE FEET OF WALL OF PARTITIONS. OUTLET BOXES ON OPPOSITE SIDES OF WALL OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" INCHES.

W. AESTHETIC CRITERIA NOTES:
1. ALL EXPOSED CONDUIT, RACEWAYS AND BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT BUILDING ELEMENTS AND FASTENED NEATLY AND CONSISTENTLY. IN PUBLIC AREAS, GROUP RACEWAYS IN MINIMUM GROUPS OF THREE RACEWAYS ON A COMMON SUPPORT SYSTEM.
2. MANUFACTURERS LABELS SHALL BE TURNED AWAY FROM PUBLIC VIEW. NO CONSTRUCTION NOTATIONS SHALL BE VISIBLE IN AREAS EXPOSED TO PUBLIC VIEW.
3. ALL NEW DEVICES, OUTLETS, SWITCHES, CONTROLS, ETC. SHALL BE INSTALLED WITH CONCERN FOR ALIGNMENT WITH WORK OF OTHER TRADES. PROVIDE VERTICAL AND HORIZONTAL ALIGNMENT WITH EQUAL SPACING BETWEEN CENTER LINES. IF DOCUMENTS DO NOT INDICATE ALIGNMENT AND/OR SPACING CONSULT WITH ARCHITECT PRIOR ROUGH IN.

X. ACOUSTICAL NOTES:
1. ALL PENETRATIONS INTO SOUND RATED PARTITIONS OR FLOOR-CEILING ASSEMBLES WITH BE SEALED, LINED OR INSULATED WITH APPROVED PERMANENT RESILIENT ACOUSTIC SEALANT AND FIRE CAULK (WHERE APPLIES).
2. ALL RIGID CONDUIT LOCATED IN SOUND ASSEMBLIES WILL BE ISOLATED FROM THE BUILDING CONSTRUCTION BY MEANS OF RESILIENT SLEEVES, MOUNTS OR MINIMUM 1/4" THICK APPROVED RESILIENT MATERIAL.
3. ELECTRICAL OUTLET BOXES IN OPPOSITE FACES OF SEPARATION WALLS WILL BE SEPARATED HORIZONTALLY BY 24" AND NOTE THAT BACK AND SIDES OF BOXES WILL BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED BY MINIMUM OF 2" THICK MATERIAL FIBER INSULATION. TV, TELEPHONE AND INTERCOM OUTLETS MUST BE INSTALLED IN BOXES ACCORDINGLY.
4. NO ELECTRICAL PANEL SHALL BE INSTALLED IN SOUND RATED PARTITIONS.

Y. COORDINATION:
1. THERE IS NO ASSURANCE THAT THE LOCATION OF SUBSTRUCTURES SHOWN ON THE DRAWING ARE ACCURATE, OR THAT ALL EXISTING SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SUBSTRUCTURES WHETHER SHOWN OR NOT. ANY DAMAGE TO THE EXISTING SUBSTRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITIES, STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLANS.
3. COORDINATE WITH LANDSCAPE CONSULTANT FOR THE TREE LOCATIONS. DO NOT DISTURB ROOT BALL.

Z. STRUCTURAL NOTES:
1. DO NOT EMBED CONDUITS OR SLEEVES IN STRUCTURAL CONCRETE, INCLUDING CONCRETE ON METAL DECK WITHOUT SPECIFIC ACCEPTANCE FROM ARCHITECT. LOCATE ELECTRICAL CONDUIT MINIMUM OF 3" APART AND WITHIN MIDDLE 1/3 OF MEMBER.
2. CONDUITS MUST BE SUPPORTED ON APPROVED CHAIRS AFFIXED TO THE SLAB FORMWORK, AND TIGHTLY SECURED TO ADJACENT REINFORCING STEEL WHERE FEASIBLE SO AS TO ASSURE NO MOVEMENT DURING CONCRETE PLACEMENT.
3. MULTIPLE LAYERS OF CONDUIT CROSSING EACH OTHER WITHIN THE 1/3" PLACEMENT ZONE IS ACCEPTABLE; HOWEVER, NO LESS THAN 3/4" VERTICAL CLEARANCE BETWEEN STACKED CONDUITS IS ALLOWED, AND NO MORE THAN THREE LAYERS OF CONDUIT WITHIN THE 1/3" PLACEMENT ZONE ARE ALLOWED AT ANY ONE LOCATION.
4. MULTIPLE CONDUITS PLACED SIDE-BY-SIDE MUST MAINTAIN AT LEAST 1 CONDUIT DIAMETER HORIZONTAL CLEARANCE, BASE ON THE LARGER OF THE ADJACENT CONDUITS.
5. CONDUIT "BANKS" CONSISTING OF 4 OR MORE CONDUITS MUST BE PLACED IN PLAN VIEW WITHIN THE MIDDLE THIRD OF THE DISTANCE BETWEEN COLUMNS OR BETWEEN COLUMNS AND ENDS/FACES OF WALLS. NO SINGLE "BANK" OF CONDUITS SHALL EXCEED 25 CONDUITS OR A TOTAL WIDTH OF 5 FEET, INCLUDING REQUIRED SPACING BETWEEN CONDUITS.
6. NO CONDUITS ARE ALLOWED TO CROSS OVER THE STUD RAILS/ BETWEEN STUDS LOCATED AT COLUMNS AND CERTAIN WALL LOCATIONS. CONDUITS RUNNING ADJACENT TO STUD RAILS MUST HAVE AT LEAST 12" CLEARANCE BETWEEN STUDS AND CONDUIT.
7. JUNCTION BOXES ARE NOT ALLOWED IN THE ZONE AROUND COLUMNS OR ENDS OF WALLS WHERE STUD RAILS ARE LOCATED. THE OUTER PERIMETER OF THE ZONE OF EXCLUSION IS DEFINED BY CONNECTING THE ENDS OF ALL STUD RAILS BY A STRAIGHT LINE.
8. WHERE NO STUD RAILS ARE SHOWN NEAR COLUMNS OR ENDS OF WALL, JUNCTION BOXES ARE NOT ALLOWED WITHIN 18" OF THE COLUMN FACE OR WITHIN A ZONE DEFINED BY A 36" DIAMETER CIRCLE CENTERED ON THE FACE OF THE WALL AT THE CENTER OF THE WALL.
9. JUNCTION BOXES MAY NOT BE PLACED CLOSER TO EACH OTHER THAN THE LARGEST PLAN DIMENSION OF THE BOX IN EITHER DIRECTION. NO MORE THAN TWO JUNCTION BOXES MAY BE PLACED ADJACENT TO EACH OTHER.
10. THE CONTRACTOR MUST SUBMIT FOR APPROVAL A DETAILED LAYOUT OF CONDUIT BANKS. THE LOCATIONS OF INDIVIDUAL CONDUIT RUNS OR RUNS OF UP TO THREE ADJACENT CONDUITS DO NOT NEED TO BE PRE-APPROVED, BUT MUST FOLLOW ALL APPLICABLE REQUIREMENTS SET FORTH IN THE DOCUMENTS.
11. NO CONCRETE FLOOR SLABS ARE ALLOWED TO BE POURED WITHOUT APPROVAL OF THE CONDUIT LAYOUT PLAN.
12. EXCEPTIONS TO THE ABOVE RULES WILL BE EVALUATED BY THE STRUCTURAL ON CASE-BY-CASE BASIS.

SPECIFIC NOTES

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

APPLICABLE CODE: 2022 CBC PER IR 16-13.
MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 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 SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	(E)	OPTION 1: PROJECT-SPECIFIC DESIGN.
MP	MD	PP	E	OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.
MP	MD	PP	E	OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

ACCEPTANCE TESTS:
ACCEPTANCE TESTS SHALL 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.

SCOPE OF WORK

NEW 2-STORY BUILDING AND STORAGE BUILDING. PROVIDE NEW POWER, LIGHTING AND DATA.

CALIFORNIA CODE STANDARDS

2022 CALIFORNIA BUILDING CODE

2022 CALIFORNIA MECHANCIAL CODE

2022 CALIFORNIA PLUMBING CODE

2022 CALIFORNIA ELECTRICAL CODE

2022 CALIFORNIA GREEN CODE

2022 CALIFORNIA ENERGY CODE

2022 CALIFORNIA FIRE CODE

ELECTRICAL SHEET INDEX

Sheet Number	Sheet Name
E001-02	GENERAL NOTES AND SPECIFICATIONS
E002-02	SYMBOLS AND ABBREVIATIONS
E003-02	LIGHTING FIXTURE SCHEDULE AND CONTROLS
E004-02	SINGLE LINE AND PANEL SCHEDULE
E005-02	TITLE 24 LIGHTING
E006-02	TITLE 24 LIGHTING
E007-02	TITLE 24
E008-02	LOW VOLTAGE RISER DIAGRAM
E009-02	TWO WAY COMMUNICATION DIAGRAM AND DETAIL
E101-02	ELECTRICAL SITE PLAN
E200-02	ELECTRICAL PLANS
E201-02	LIGHTING PLANS
E202-02	ELECTRICAL PARTIAL PLANS
E300-02	STORAGE BUILDING ELECTRICAL PLAN
E400-02	ELECTRICAL DETAILS
E401-02	ELECTRICAL DETAILS
E402-02	ELECTRICAL DETAILS

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ABBREVIATIONS

A; AMPS	AMPERES
BOD; TOD	BOTTOM DEVICE; TOP OD DEVICE
C	CONDUIT DIAMETER IN INCHES; ALSO MEANS CIRCUIT FOR DOOR SECURITY MONITORING SYMBOL
CAB	CABINET
CATV	CABLE TELEVISION
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CKT	CIRCUIT
CU	COPPER
D	DRYER (IF NEXT TO A RECEPTACLE)
DW	DISHWASHER
E	INDICATES LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP, AND UNSWITCHED CIRCUIT.
E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQPT	EQUIPMENT
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FAULT CURRENT
F & IBO	FURNISHED AND INSTALLED BY OTHERS
FLA	FULL LOAD AMPERES
FXTR	FIXTURE
GD	GARBAGE DISPOSER (IF NEXT TO A RECEPTACLE)
GND; GRD	GROUND
HP	HORSEPOWER
HU	HEATING UNIT, WALL HEATER, PROVIDED UNDER MECHANICAL WORK, SEE MECHANICAL PLANS FOR COMPLETE INFO.
KWHR	KILOWATT HOUR
LC	LIGHTING CONTACTORS
LV	LOW VOLTAGE
MCA	MINIMUM CIRCUIT AMPACITY (IN AMPERES)
MTD	MOUNTED
MTG HT.	MOUNTING HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NON-FUSED SWITCH
NL	NIGHTLIGHT
PG&E	PACIFIC GAS & ELECTRIC
PNL; PNLBD	PANEL; PANELBOARD
PRI	PRIMARY
PROVIDE	FURNISH & INSTALL FOR A COMPLETE AND OPERABLE SYSTEM
R	ELECTRIC RANGE (IF NEXT TO A RECEPTACLE)
REC.	RECESSED
RECEP	RECEPTACLE
RLA	RUNNING LOAD AMPERS
SEC	SECONDARY; ALSO MEANS SECURITY FOR SECURITY CAMERA SYMBOL
SWBD	SWITCHBOARD
TEL	TELEPHONE
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
KVA	KILOVOLT AMPERES
W	WATTS; ALSO MEANS WASHER IF NEXT TO A RECEPTACLE
WP	WEATHERPROOF

SYMBOLS

———	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING SPACE OR WALL.
- - - - -	
———→	BRANCH CIRCUIT HOMERUN TO PANEL AS INDICATED.
——//—— G	CONDUIT, 1/2"- 2 # 12 MINIMUM. HASHMARKS INDICATE NUMBER OF WIRES AND SIZE OTHER THAN # 12. "G" ON HASHMARKS INDICATES INSULATED/ISOLATED GROUND WIRE.
——✕——	FLASHED ROOF JACK
~~	FLEXIBLE CONDUIT
——○	CONDUIT UP
——●	CONDUIT DOWN
——⊣	CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION.
----S----	SECONDARY RACEWAY DOWN 36" MINIMUM PER LOCAL UTILITY CO. REQUIREMENTS.
——T——	TELEPHONE SYSTEM CONDUIT WITH PULLCORD, 3/4" EXCEPT AS NOTED.
——T——→	TELEPHONE SYSTEM CONDUIT HOMERUN WITH PULLCORD, 1"C. MINIMUM (UON).
	DUPLEX RECEPTACLE 15A, 125V, 3W, NEMA 5-15R, +15" BOD (UON). (WP= WEATHERPROOF, D= DEDICATED)
	DUPLEX RECEPTACLE 20A, 125V, 3W, NEMA 5-20R, +15" BOD (UON). (WP= WEATHERPROOF, D= DEDICATED, S= WITH SURGE SUPPRESSOR), M= MOUNT IN MILLWORK AFTER CABINET IS SET).
	DUPLEX RECEPTACLE 20A, 125V, NEMA 5-20R, WITH ISOLATED GROUND, +15" BOD (UON).
	DUPLEX RECEPTACLE 20A, 125V, NEMA5-20R, WITH GROUNDFAULT CIRCUIT INTERRUPTER, +15" BOD (UON) (WP= WEATHERPROOF). COVER - TAYMAC #10510 OR ACCEPTED EQUIVALENT.
	DUPLEX RECEPTACLE 20A, 125V, 3W, NEMA 5-20R, MOUNT ABOVE COUNTER (UON).
	DOUBLE DUPLEX RECEPTACLES (2) NEMA 5-20R, +15" BOD (UON).
	DUPLEX RECEPTACLE SPLIT WIRED, 1/2 SWITCHED 20A, 125V, 3W, NEMA 5-20R, +15" BOD (UON).
	FLUSH FLOOR BOX WITH FLUSH COVER, WITH COMBINATION POWER AND SIGNAL SYSTEMS AS INDICATED - SEE SPECIFICATIONS.
	CEILING MOUNTED DUPLEX RECEPTACLE 20A, 125V, 3W. MOUNT ABOVE SHOW WINDOW. RECEPTACLE AND PLATE COVER SHALL MATCH CEILING COLOR (UON).
	WALL MOUNTED POWER OR SIGNAL DEVICES WITH AN ANGLED LINE THRU THEM INDICATES DEVICE TO BE MOUNTED ABOVE THE COUNTER SPLASH. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
	FLUSH FLOOR OUTLET WITH BRASS COVERPLATE AND PULL RING, WITH DUPLEX RECEPTACLE, 20A, 125V, 3W, NEMA 5-20R. HEAVY DUTY COVER (+/-4000 LBS.)
J	JUNCTION OR OUTLET BOX - MOUNT ABOVE CEILING WITH BLANK COVER. (F= FLUSH IN FINISHED CEILING)
JH	WALL MOUNTED JUNCTION OR OUTLET BOX WITH BLANK COVER, FLUSH, HEIGHT AS INDICATED.
	FLOOR MOUNTED JUNCTION BOX WITH BLANK COVER (FLUSH OR SURFACE AS INDICATED). IF NO INDICATION INSTALL FLUSH.
PB	PULLBOX, SIZE AS REQUIRED (WP-WHERE INDICATED OUTDOORS).
	DATA OUTLET, FLUSH MOUNT IN WALL, +15" BOD WITH 3/4"C. AND PULLCORD (CABLING) UP TO ABOVE ACCESSIBLE CEILING SPACE.
	TELEPHONE OUTLET, FLUSH MOUNT IN WALL, +15" BOD WITH 3/4"C. AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE (W=+44").
	COMBINATION VOICE AND DATA OUTLET IN WALL, +15" BOD (UON) WITH 3/4"C. AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE.
	CEILING MOUNTED FLUORESCENT FIXTURE AND BOX.
	PENDANT MOUNTED FLUORESCENT FIXTURE AND BOX.
	WALL MOUNTED FLUORESCENT FIXTURE AND BOX.
	CEILING OR PENDANT MOUNTED FLUORESCENT STRIPLIGHT AND BOX.
	EXTERIOR WALL MOUNTED FIXTURE AND BOX. +84" AFF (UON).
	EMERGENCY BATTERY PACK WITH FIXTURES AND BOX, +7'-6" AFF (UON)
$	SINGLE POLE, SINGLE THROW SWITCH AND BOX, +46" TO CENTERLINE OF DEVICE AFF.
$a	SINGLE POLE SWITCH AND BOX, LOWER CASE LETTER INDICATES CIRCUIT OR LAMPS CONTROLLED BY SWITCH, +46" TO CENTERLINE OF DEVICE AFF.
PC	ADJUSTABLE PHOTOCELL AND MOUNTING ASSEMBLY, MOUNT ON ROOF (UON), ON RIGID CONDUIT THRU FLASHED ROOF JACK, AIM TOWARDS NORTH.
a	MOTION DETECTOR AND BOX, CEILING, WALL MOUNTED, +44" AFF (UON). LOWER CASE LETTER INDICATES CIRCUIT OR FIXTURE CONTROLLED BY DETECTOR. AIM ADJUSTABLE SENSORS PER DIRECTIONAL ARROWS WHERE INDICATED.
	NON-FUSED DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSES (UON).
$T	HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
M	MOTOR OUTLET AND FLEX CONNECTION TO MOTOR.
	PANELBOARD, 120/208V, 3 PHASE, 4W U.O.N. FLUSH, SURFACE.
KP	WALL MOUNTED JUNCTION BOX FOR ACCESS CONTROL SYSTEM. (ROUTE 3/4" CONDUIT FROM DEVICE TO NEAREST ACCESSIBLE CEILING SPACE)

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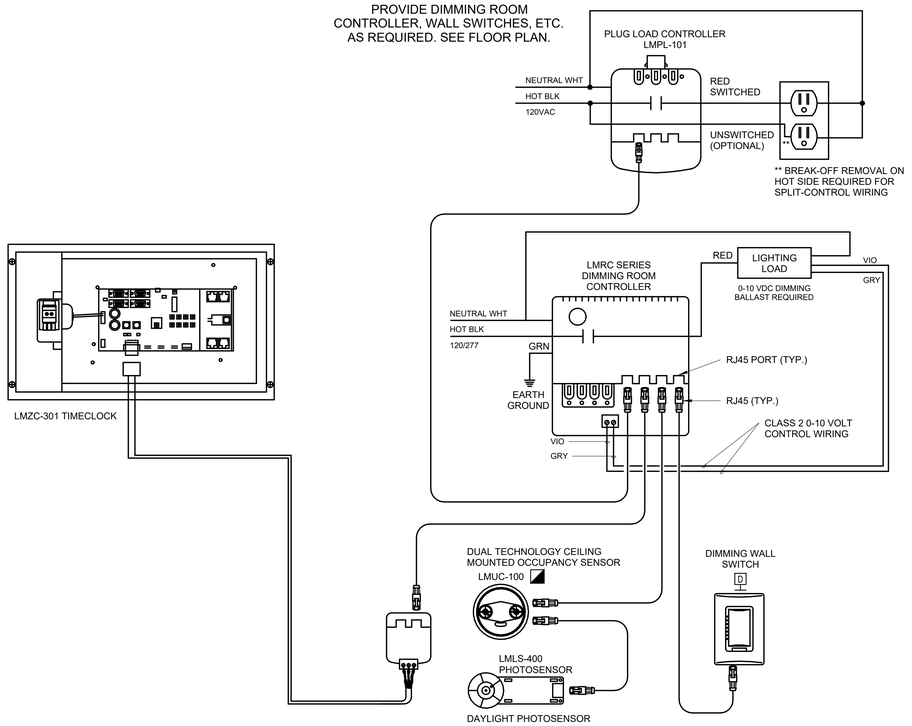
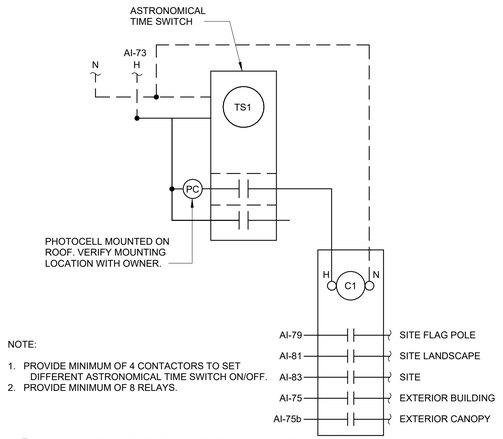
SHEET TITLE
SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
E002-02



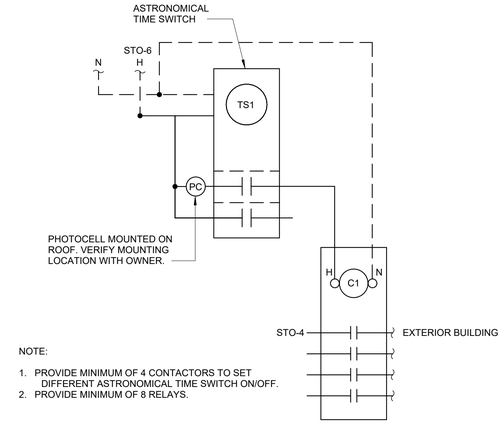
1 CONTROLLER WITH AUTO TIMESWITCH
NO SCALE



NOTE:

1. PROVIDE MINIMUM OF 4 CONTACTORS TO SET DIFFERENT ASTRONOMICAL TIME SWITCH ON/OFF.
2. PROVIDE MINIMUM OF 8 RELAYS.

3 LIGHTING CONTROL DIAGRAM (LCP-1)
NO SCALE

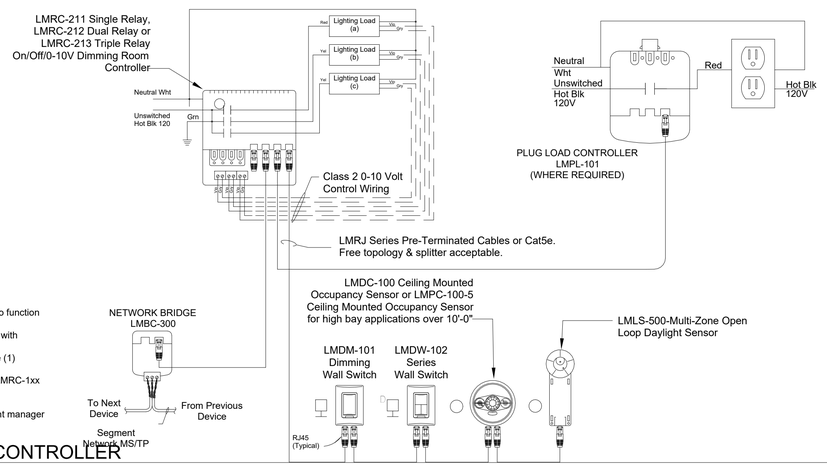


NOTE:

1. PROVIDE MINIMUM OF 4 CONTACTORS TO SET DIFFERENT ASTRONOMICAL TIME SWITCH ON/OFF.
2. PROVIDE MINIMUM OF 8 RELAYS.

4 LIGHTING CONTROL DIAGRAM (LCP-2)
NO SCALE

NOTE:
One, two or three zone 0-10v dimmed application with wall or ceiling mounted occupancy sensor(s) for shut off and manual dimming. Lights will turn on automatically from the occupancy sensor upon entering the space and can be dimmed or switched manually from the device on the wall. Lights will be turned off automatically by the occupancy sensor. Time-out of sensor to be set at 20 minutes.



Notes:
- LMDW-102 buttons will configure to function as a dimmer, as well as On/Off switch
- Feed Room/Plug Load Controllers with Constant Hot (unswitched) circuit
- When networking, ensure only one (1) Network Bridge per room
- Rooms can have no more than 4 LMRC-1xx series controllers on the Cat 5e Room Network.
- Connect network bridge to segment manager located at IT room.

2 LIGHTING ROOM CONTROLLER
NO SCALE

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	LAMP	MTG	LOCATION	MANUFACTURER CATALOG NO.
A	HIGH BAY LUMINAIRE	79.6W LED 4000K	PENDANT	MPR-PERFORMANCE SPACE	PRENTALUX PRLX-UHBS-1218-MV-L84050
AE	SIMILIAR TO TYPE A, HOWEVER PROVIDE REMOTE 90 MINIUTE MINIMUM EMERGENCY BATTERY BACKUP	79.6W LED 4000K	PENDANT	MPR-PERFORMANCE SPACE	PRENTALUX PRLX-UHBS-1218-MV-L84050-E BP-RM4OR
B	2X4 RECESSED LIGHT FIXTURE	38.5W LED 4000K	RECESSED MOUNTED	KITCHEN	METALUX 24CGTS-L3C3-MID-4000K
C	2X4 RECESSED LIGHT FIXTURE. LOW LUMEN OUTPUT.	23.9W LED 3500K	RECESSED MOUNTED	BATHROOM	METALUX 24CZSCT3-UNV-LOW-3500K
C1	2X4 RECESSED LIGHT FIXTURE. MID LUMEN OUTPUT.	33.7W LED 3500K	RECESSED MOUNTED	OFFICES	METALUX 24CZSCT3-UNV-MID-3500K
C2	2X4 RECESSED LIGHT FIXTURE. HIGH LUMEN OUTPUT.	44.4W LED 3500K	RECESSED MOUNTED	OFFICES	METALUX 24CZSCT3-UNV-HIGH-3500K
D	6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM	14W LED 3500K	RECESSED MOUNTED	RESTROOMS	HALO HCOSS15D010MW-HM60525835 -61WDH
E	4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM	10W LED 3500K	RECESSED MOUNTED	HALLWAY	HALO HC410D010-HM412835-41WDH
EE	SIMILIAR TO TYPE E, HOWEVER PROVIDE INTEGRAL 90 MINIUTE MINIMUM EMERGENCY BATTERY BACKUP	10W LED 3500K	RECESSED MOUNTED	HALLWAY	HALO HC410D010-HM412835-41WDH-IEMV14
F	4' LINEAR STRIP	29.8W LED 3500K	SURFACE	STORAGE	METALUX 4SNX-45SL-SLW-UNV-L835-CD
FE	4' LINEAR STRIP PROVIDE INTEGRAL 90 MINUTE MINIMUM EMERGENCY BATTERY BACKUP	29.8W LED 3500K	SURFACE	ELECTRICAL, MACHINE ROOM	METALUX 4SNX-45SL-SLW-UNV-L835-CD-EL14W
BE	2x4 RECESSED LIGHT FIXTURE, HOWEVER PROVIDE WITH 90 MINUTE MINIMUM EMERGENCY BATTERY BACKUP	38.5W LED 4000K	RECESSED MOUNTED	KITCHEN	METALUX 24CGTS-L3C3-MID-4000K-EL14W
CE	2x4 RECESSED LIGHT FIXTURE. LOW LUMEN OUTPUT.	23.9W LED 3500K	RECESSED MOUNTED	BATHROOM	METALUX 24CZFCT3-UNV-LOW-3500K-EL14W
G1	4' LINEAR INDIRECT/ DIRECT PENDANT	20.5W LED 3500K	PENDANT	HALLWAY	NULITE RP13-B-BW-03L35-1C-U--D-W-4
G1E	SIMILIAR TO TYPE G1, HOWEVER PROVIDE INTEGRAL 90 MINIUTE MINIMUM EMERGENCY BATTERY BACKUP	20.5W LED 3500K	PENDANT	HALLWAY	NULITE RP13-B-BW-03L35-1C-U--D-W-4-B15
G2	2' LINEAR INDIRECT/ DIRECT PENDANT	18.85W LED 3500K	PENDANT	LOBBY RECEPTION	NULITE RP13-B-BW-05L35-1C-U--D-W-4
G2E	SIMILIAR TO TYPE G2, HOWEVER PROVIDE INTEGRAL 90 MINIUTE MINIMUM EMERGENCY BATTERY BACKUP	18.85W LED 3500K	PENDANT	LOBBY RECEPTION	NULITE RP13-B-BW-05L35-1C-U--D-W-4-B15
GW	4' DIRECT WALL MOUNT	21W LED 3500K	WALL MOUNTED	WOMENS RR, ELEV 111	NULITE RW13D-FRF-07-L35-4
H	4' DIRECT CELING FLANG MOUNT	14.6 LED LED 3500K	RECESSED MOUNTED	HALLWAY	NULITE RF1-FRF-05-L35-4
HE	SIMILIAR TO TYPE H, HOWEVER PROVIDE INTEGRAL 90 MINIUTE MINIMUM EMERGENCY BATTERY BACKUP	14.6 LED LED 3500K	RECESSED MOUNTED	HALLWAY	NULITE RF1-FRF-05-L35-4-B15
J	5-INCH CYLINDER, WIDE FLOOD OPTIC	22W LED 3500K	RECESSED MOUNTED	STAIRS	CSL LIGHTING S4021-ADJ-20-35-50-WT-2-S
K	4' INDUSTRIAL VAPORLITE STRIP	21.3 LED 4000K	SURFACE	ELEV	METALUX 4APVTLD-SL3C3-LOW POWER-400K
L	2X4 RECESSED LIGHT FIXTURE.	49.8 LED 3000K	RECESSED MOUNTED	OFFICE	NULITE #BRM4-24-55-H27
M	2X4 RECESSED LIGHT FIXTURE.	45.3W LED 3000K	RECESSED MOUNTED	BREAKROOM	NULITE #BRM4-24-50-H30
N	2X2 CELING MOUNT FIXTURE	28W LED 3500K	WALL MOUNTED	RESTROOMS	METALUX #22MMS-L3C3-UNV-MEDIUM-3500K
O	2X2 CEILING MOUNT FIXTURE	24.1 LED 3500K	WALL MOUNTED	HALLWAY	METALUX #22FPSL2SCT3-3500K-MID
OE	SIMILIAR TO TYPE O, HOWEVER PROVIDE INTEGRAL 90 MINIUTE MINIMUM EMERGENCY BATTERY BACKUP	24.1 LED 3500K	WALL MOUNTED	HALLWAY	METALUX #22FPSL2SCT3-3500K-MID-EL14W
P	4' LINEAR DIRECT	10.4W LED 3500K	WALL MOUNTED	HALLWAY	AXIS #SLTPD-350-SO-80-35-4-W
Q	HIGH BAY LUMINAIRE	111 W LED 4000K	PENDANT	STORAGE BULDING	METALUX OHB-18SE-W-UNV-L840-CD
W	EXTERIOR WALL SCONCE	26W LED 2700K	WALL MOUNTED	EXTERIOR BUILDING	PIL LIGHTING #MIMIC 20M 26W 730TYPE III 0-10V
WE	SIMILAR TO TYPE W, HOWEVER PROVIDE INTERGRAL 90 MINUTE MINIMUM EMERGENCY BATTERY BACKUP	26W LED 2700K	WALL MOUNTED	EXTERIOR BUILDING	PIL LIGHTING #MIMIC 20M 26W 730TYPE III 0-10V (ADD EMERGENCY BATTERY PACK
XE	EXTERIOR RECESSED DOWNLIGHT, PROVIDE INTEGRAL 90 MINUTE MINIMUM EMERGENCY BATTERY BACKUP	10W LED 2700K	RECESSED MOUNTED	EXTERIOR CANOPY	INTEGER LIGHTS #RPA-3S-8L-27-UNV-ID-27-NON E-IC-RF D-ERB-3RFO-CL-BZ-BZ-WL
EX	EXIT SIGN EMERGENCY BATTERY BACKUP MINIMUM 90 MINUTES	INCLUDED	SURFACE CEILING MOUNTED	THROUGHOUT	LITHONIA LQM-S-W-3-G-120
EM	EMERGENCY LIGHT FIXTURE BATTERY BACKUP MINIMUM 90 MINUTES	INCLUDED	SURFACE CEILING MOUNTED	THROUGHOUT	LITHONIA ELM4L

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
LIGHTING FIXTURE SCHEDULE AND CONTROLS

SHEET NUMBER:
E003-02

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LOCATION: FED FROM:

PANEL A1

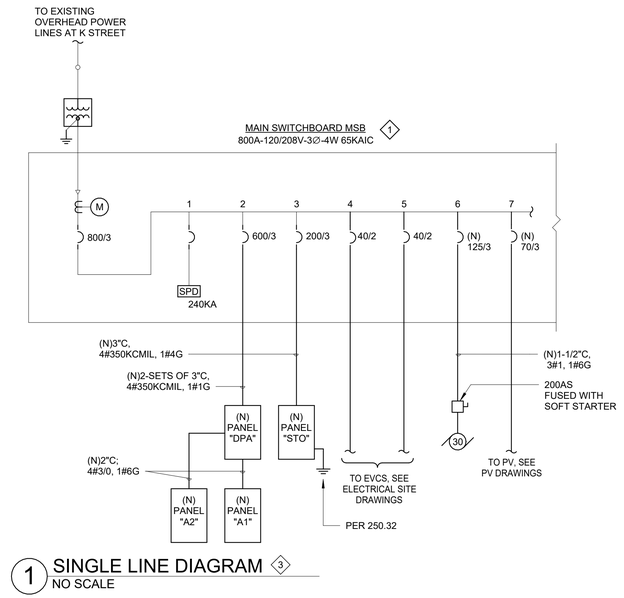
120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND
TYPE: BOLT-ON BUS: 225A
MINIMUM CB INTERRUPTING CAPACITY: 65,000 SYM AMPS

MAIN: [X] MLO [-] MCB
MOUNTING: [ ] SURFACE [ ] FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	NTS	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	NTS	BRKR P	BRKR T	REC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	REC - 1ST FL LOBBY			1	20		0.4	3.0			2	30			KITCHEN OVEN	2
3	REC - ELEVATOR PIT			1	20			0.2	3.0		-	-			-	4
5	REC - 1ST FL DRINKING FOUNTAIN			1	20				0.6	0.0					SHUNT TRIP SPACE	6
7	REC - 1ST FL HALLWAY			1	20		0.4	3.0			2	30			KITCHEN OVEN	8
9	REC - 1ST FL RR			1	20			0.4	3.0		-	-			-	10
11	REC - 1ST FL STORAGES			1	20				0.7	0.0					SHUNT TRIP SPACE	12
13	ELEVATOR CAB			1	20		1.0	0.5			1	20			REC - KITCHEN	14
15	REC - 1ST FL MACHINE RM			1	20			0.2	0.7		1	20			REC - MPR	16
17	REC - 1ST FL CLASSROOM			1	20				0.4	0.7	1	20			REC - MPR	18
19	REC - 1ST FL CLASSROOM			1	20		1.1	0.7			1	20			REC - MPR	20
21	REC - 1ST FL CLASSROOM			1	20			0.5	0.5		1	20			REC - MPR	22
23	REC - 1ST FL CLASSROOM			1	20				0.5	0.6	1	20			REC - MPR DUAL SHADES	24
25	REC - 1ST FL CLASSROOM			1	20		0.5	0.6			1	20			REC - MPR DUAL SHADES	26
27	REC - 1ST FL CLASSROOM			1	20			0.5	0.6		1	20			REC - MPR DUAL SHADES	28
29	REC - 1ST FL CLASSROOM			1	20				0.5	0.4	1	20			REC - 2ND FL MOTHERS ROOM	30
31	REC - 1ST FL CLASSROOM			1	20		0.5	0.7			1	20			REC - 2ND FL RR / HALLWAY	32
33	REC - 1ST FL TUTORIAL			1	20			0.5	0.5		1	20			REC - 2ND FL BREAK RM	34
35	SPARE			1	20				0.0	0.7	1	20			REC - 2ND FL OFFICE 1, 2	36
37	REC - KITCHEN RERIGERATOR			1	20		0.7	0.7			1	20			REC - 2ND FL OFFICE 3	38
39	REC - KITCHEN FREEZER			1	20			1.9	0.7		1	20			REC - 2ND FL OFFICE 4	40
41	REC - KITCHEN ICE MACHINE			1	20				1.2	1.0	1	20			REC - 2ND FL CONTROL BOOTH...	42
43	REC - KITCHEN			1	20		0.6	0.4			1	20			REC - 2ND FL CONTROL BOOTH	44
45	SHUNT TRIP							0.0	0.7		1	20			REC - 2ND FL OFFICE 5, 6	46
47	EXTERIOR			1	20				1.0	0.7	1	20			REC - 2ND FL OFFICE 7, 8	48
49	KITCHEN HOOD			1	20		1.0	0.4			1	20			REC - 2ND FL OFFICE 9	50
51	KITCHEN ANSUL			1	20			1.0	0.5		1	20			REC - 2ND FL STORAGE	52
53	REC - 201 REFRIG			1	20				1.0	1.0	1	20			REC - 2ND FL COPIER	54
55	REC - 204 REFRIG			1	20		1.0	1.0			1	20			REC - 2ND FL COPIER	56
57	CEF-1			1	20			0.2	0.6		1	20			REC - 2ND FL DRINKING FOUNTAIN	58
59	SPRINKLER			1	20				0.2	0.5	1	20			REC - 2ND FL HALLWAY/MEETING	60
61	PRINTER			1	20		1.0	1.0			1	20			MRP CEILING FANS	62
63	SPARE			1	20			0.0	1.0		1	20			MRP CEILING FANS	64
65	SPARE			1	20				0.0	1.0	1	20			MOTORIZED GATE #1	66
67	SPARE			1	20		0.0	1.0			1	20			MOTORIZED GATE #2	68
69	LTG - ELEVATOR PIT			1	20			0.2	0.2		1	20			GAS	70
71	SPARE			1	20				0.0	0.6	1	20			KITCHEN FAN CURTAIN	72
73	LCP-1			1	20		0.2	1.0			1	20			LTG - 1ST FL	74
75	LTG - EXTERIOR			1	20			1.0	1.0		1	20			LTG - 1ST FL	76
77	LTG - EM			1	20				1.0	1.0	1	20			LTG - 1ST AND 2ND FL	78
79	EXTERIOR LTG - FLAG POLE			1	20		1.0	1.0			1	20			LTG - 2ND FL	80
81	EXTERIOR LTG - LANDSCAPE			1	20			1.0	1.0		1	20			LTG - MPR	82
83	EXTERIOR LTG - SITE			1	20				1.0	1.0	1	20			LTG - MPR	84
	ISOLATED GROUND BUS	SUB TOTALS					24.4	21.8	17.4		CONNECTED KVA PER PHASE					
	200% RATED NEUTRAL						203.4	181.5	145.0		CONNECTED AMPS PER PHASE					
		TOTAL CONNECTED LOAD					63.6 KVA									
		TOTAL DEMAND LOAD					53.2 KVA+[0.1 (LML) KVA x 25%] = 53.3 KVA= 148.1 AMPS									

SHEET NOTES

1. NEW MAIN SWITCH BOARD INSTALLED UNDER ELECTRICAL SITE DRAWINGS. SEE E700-02 ELECTRICAL SITE DRAWING PACKAGE FOR REQUIREMENT.
2. PROVIDE NEW CIRCUIT BREAKER TO MATCH EXISTING FRAME STYLE AND AIC RATING.
3. PANELS SHALL BE CAPABLE OF EACH CIRCUIT BEING METERED INDIVIDUALLY TO SATISFY TITLE 24 REQUIREMENTS.



1 SINGLE LINE DIAGRAM ◇3
NO SCALE

LOCATION: FED FROM:

PANEL A2

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND
TYPE: BOLT-ON BUS: 225A
MINIMUM CB INTERRUPTING CAPACITY: 65,000 SYM AMPS

MAIN: [X] MLO [-] MCB
MOUNTING: [X] SURFACE [ ] FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	NTS	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	NTS	BRKR P	BRKR T	REC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	HIGH TEMP DISHWASHER			3	30		3.0	0.0			1	20			SUMP PUMP	2
3	-			-	-			3.0	0.0		1	20			SPARE	4
5	-			-	-				3.0	0.0	1	20			SPARE	6
7	SPARE			1	20		0.0	0.0			1	20			SPARE	8
9	SPARE			1	20			0.0	0.0		1	20			SPARE	10
11	SPARE			1	20				0.0	0.0	1	20			SPARE	12
13	SPARE			1	20		0.0	0.0			1	20			SPARE	14
15	SPARE			1	20			0.0	0.0		1	20			SPARE	16
17	SPARE			1	20				0.0	0.0	1	20			SPARE	18
19	SPARE			1	20		0.0	0.0			1	20			SPARE	20
21	SPARE			1	20			0.0	0.0		1	20			SPARE	22
23	SPARE			1	20				0.0	0.0	1	20			SPARE	24
25	SPARE			1	20		0.0	0.0			1	20			SPARE	26
27	SPARE			1	20			0.0	0.0		1	20			SPARE	28
29	SPARE			1	20				0.0	0.0	1	20			SPARE	30
31	SPACE						0.0	0.0							SPACE	32
33	SPACE							0.0	0.0						SPACE	34
35	SPACE								0.0	0.0					SPACE	36
37	SPACE						0.0	0.0							SPACE	38
39	SPACE							0.0	0.0						SPACE	40
41	SPACE								0.0	0.0					SPACE	42
	ISOLATED GROUND BUS	SUB TOTALS					3.0	3.0	3.0		CONNECTED KVA PER PHASE					
	200% RATED NEUTRAL						25.0	25.0	25.0		CONNECTED AMPS PER PHASE					
		TOTAL CONNECTED LOAD					9.0 KVA									
		TOTAL DEMAND LOAD					9.0 KVA+[0.0 (LML) KVA x 25%] = 9.0 KVA= 25.0 AMPS									

LOCATION: FED FROM:

PANEL STO

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND
TYPE: BOLT-ON BUS: 200A
MINIMUM CB INTERRUPTING CAPACITY: 42,000 SYM AMPS

MAIN: [-] MLO [X] MCB 200/3
MOUNTING: [X] SURFACE [ ] FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	NTS	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	NTS	BRKR P	BRKR T	REC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	REC - STORAGE			1	20		0.9	0.4			1	20			LTG - STORAGE	2
3	REC - STORAGE			1	20			0.9	1.0		1	20			LTG - EXTERIOR	4
5	REC - EXT STORAGE			1	20				0.4	0.2	1	20			LCP-2	6
7	EC-1			2	20		0.8	0.0			1	20			SPARE	8
9	-			-	-			0.8	0.0		1	20			SPARE	10
11	EC-2			2	20				0.8	0.0	1	20			SPARE	12
13	-			-	-		0.8	0.0			1	20			SPARE	14
15	ROOF PUMP			1	20			0.2	0.0		1	20			SPARE	16
17	EXTERIOR ROOF REC			1	20				0.2	0.0	1	20			SPARE	18
19	SPARE			1	20		0.0	0.0			1	20			SPARE	20
21	SPARE			1	20			0.0	0.0		1	20			SPARE	22
23	SPARE			1	20				0.0	0.0	1	20			SPARE	24
25	SPARE			1	20		0.0	0.0			1	20			SPARE	26
27	SPARE			1	20			0.0	0.0		1	20			SPARE	28
29	SPARE			1	20				0.0	0.0	1	20			SPARE	30
31	SPARE			1	20		0.0	0.0			1	20			SPARE	32
33	SPARE			1	20			0.0	0.0		1	20			SPARE	34
35	SPARE			1	20				0.0	0.0	1	20			SPARE	36
37	SPARE			1	20		0.0	0.0			1	20			SPARE	38
39	SPARE			1	20			0.0	0.0		1	20			SPARE	40
41	SPARE			1	20				0.0	0.0	1	20			SPARE	42
	ISOLATED GROUND BUS	SUB TOTALS					2.9	2.9	1.5		CONNECTED KVA PER PHASE					
	200% RATED NEUTRAL						24.4	24.1	12.6		CONNECTED AMPS PER PHASE					
		TOTAL CONNECTED LOAD					7.3 KVA									
		TOTAL DEMAND LOAD					7.7 KVA+[0.6 (LML) KVA x 25%] = 8.3 KVA= 23.0 AMPS									

LOCATION: FED FROM:

PANEL DPA

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND
TYPE: BOLT-ON BUS: 600A
MINIMUM CB INTERRUPTING CAPACITY: 65,000 SYM AMPS

MAIN: [-] MLO [X] MCB 600/3
MOUNTING: [X] SURFACE [ ] FLUSH

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	NTS	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	NTS	BRKR P	BRKR T	REC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	FCU-4-1			2	15		0.9	4.4			3	45			HP-1 (1 OF 2)	2
3	-			-	-			0.9	4.4		-	-			-	4
5	FCU-5-1			2	15				0.9	4.4	-	-			-	6
7	-			-	-		0.9	6.6			3	60			HP-1 (2 OF 2)	8
9	FCU-6-2			2	15			0.9	6.6		-	-			-	10
11	-			-	-				0.9	6.6	-	-			-	12
13	FCU-7-2			2	15		0.9	4.4			3	45			HP-2 (1 OF 2)	14
15	-			-	-			0.9	4.4		-	-			-	16
17	FCU-8-2			2	15				0.9	4.4	-	-			-	18
19	-			-	-		0.9	6.6			3	60			HP-2 (2 OF 2)	20
21	FCU-8-2			2	15			0.9	6.6		-	-			-	22
23	-			-	-				0.9	6.6	-	-			-	24
25	WATER HEATER (15 KW VERIFY)			3	60		5.0	0.9			2	15			FCU-1-1	26
27	-			-	-			5.0	0.9		-	-			-	28
29	-			-	-				5.0	0.9	2	15			FCU-2-1	30
31	CP-1			1	20		0.2	0.9			-	-			-	32
33	MXB			1	20			0.2	0.9		2	15			FCU-3-1	34
35	SPACE								0.0	0.9	-	-			-	36
37	PANEL A1			3	200		23.4	0.5			3	15			KEF-1	38
39	-			-	-			22.4	0.5		-	-			-	40
41	-			-	-				20.3	0.5	-	-			-	42
43	PANEL A2			3	200		3.0	0.7			3	15			MUA-1	44
45	-			-	-			3.0	0.7		-	-			-	46
47	-			-	-				3.0	0.7	-	-			-	48
49	MXB			1	20		0.2	0.9			2	15			CU-1	50
51	SPACE							0.0	0.9		-	-			-	52
53	SPACE								0.0	0.1	1	20			SF-1	54
	ISOLATED GROUND BUS	SUB TOTALS					61.5	60.3	57.2		CONNECTED KVA PER PHASE					
	200% RATED NEUTRAL						512.3	502.3	476.3		CONNECTED AMPS PER PHASE					
		TOTAL CONNECTED LOAD					178.9 KVA									
		TOTAL DEMAND LOAD					178.9 KVA+[5.0 (LML) KVA x 25%] = 183.9 KVA= 510.7 AMPS									

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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PROJECT:

MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

SINGLE LINE AND PANEL SCHEDULE

SHEET NUMBER:

E004-02

12/18/2025 10:01:10 AM© YC+D, 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Merced	**Report Page:**	**(Page 1 of 10)**
Project Address: 26th Street	**Date Prepared:**	10/13/2025

A. GENERAL INFORMATION				
01	Project Location (city)	Merced	04	Total Conditioned Floor Area (ft²)	11,352
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Convention Center ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	11352	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	11352		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Merced	**Report Page:**	**(Page 2 of 10)**
	Date Prepared:	10/13/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		6,932.4	0		=	6,932	6,045	0	=	6045	COMPLIES
Unconditioned					=				=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Merced	**Report Page:**	**(Page 3 of 10)**
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A	A - 80W LED	No	NA	80	Mfr. Spec	24	No	1,920	☐	☐
B	B - 39W LED	No	NA	39	Mfr. Spec	6	No	234	☐	☐
C	C - 24W LED	No	NA	24	Mfr. Spec	17	No	408	☐	☐
C1	C1 - 34W LED	No	NA	34	Mfr. Spec	12	No	408	☐	☐
C2	C2 - 45W LED	No	NA	45	Mfr. Spec	14	No	630	☐	☐
D	D - 14W LED	No	NA	14	Mfr. Spec	8	No	112	☐	☐
E	E - 10W LED	No	NA	10	Mfr. Spec	12	No	120	☐	☐
F	F - 30W LED	No	NA	30	Mfr. Spec	6	No	180	☐	☐
G1	G1 - 21W LED	No	NA	21	Mfr. Spec	16	No	336	☐	☐
G2	G2 - 19W LED	No	NA	19	Mfr. Spec	14	No	266	☐	☐
GW	GW - 21W LED	No	NA	21	Mfr. Spec	4	No	84	☐	☐
H	H - 15W LED	No	NA	15	Mfr. Spec	8	No	120	☐	☐
L	L - 50W LED	No	NA	50	Mfr. Spec	2	No	100	☐	☐
M	M - 46W LED	No	NA	46	Mfr. Spec	3	No	138	☐	☐
N	N - 28W LED	No	NA	28	Mfr. Spec	2	No	56	☐	☐
O	O - 25W LED	No	NA	25	Mfr. Spec	13	No	325	☐	☐
P	P - 11W LED	No	NA	11	Mfr. Spec	16	No	176	☐	☐
Q	Q - 108W LED	No	NA	108	Mfr. Spec	4	No	432	☐	☐
							Total Designed Watts: CONDITIONED SPACES	6,045		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

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F. INDOOR LIGHTING FIXTURE SCHEDULE

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Lobby, Main Entry	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage, Janitor	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Restrooms	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Classrooms, Lecture	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Kitchen/Food Preparation Area	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Corridor Area	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Electrical Room	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	NA: Elec. equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Stairwell	Stairwell	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Multipurpose and Meeting Area	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Office Area (<250 square feet)	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Breakroom	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

	13
	Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Lobby, Main Entry	All Other Space Types	0.7	235	164.5	No	No
All other	All Other Space Types	0.4	310	124	No	No
Restrooms	Restroom	0.65	384	249.6	No	No
Classroom, Lecture, Training, Vocational Areas	Classroom, Lecture, or Training Vocational	0.6	1,440	864	No	No
Kitchen/Foor Preparation Area	Kitchen/ Food Preparation	0.95	496	471.2	No	No
Corridor Area	Corridor	0.4	1,751	700.4	No	No
Electrical, Mechanical, Telephone Rooms	Electrical Mechancial Telephone Room	0.4	48	19.2	No	No
Multipurpose and Meeting Area	Convention, Conference, Multipurpose and Meeting Center	0.75	3,587	2,690.2	No	No
Office Area (<250 square feet)	Office (<=250 square feet)	0.65	1,507	979.6	No	No
Breakroom	Lounge	0.55	214	117.7	No	No
Storage	All Other Space Types	0.4	1,380	552	No	No
		TOTALS:	11,352	6,932.4	See Tables J, or P for detail	

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J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

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R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Merced	**Report Page:**	**(Page 9 of 10)**
	Date Prepared:	10/13/2025

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Lobby, Main Entry; Storage, Janitor; Restrooms; Classrooms, Lecture; Kitchen/Food Preparation Area; Corridor Area; Stairwell; Multipurpose and Meeting Area; Office Area (<250 square feet); Breakroom;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Lobby, Main Entry;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

CONSULTANT:

BELDEN CONSULTING ENGINEERS
6700 Koll Center Parkway, Suite 300
Pleasanton, California 94566
phone: (925) 621-5300 fax: (925) 203-5758
belden@beldeninc.com
25039 / MM

CONSULTANT'S SEAL:

THIS DRAWING AND THE DESIGNS, ARRANGEMENTS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE THE UNPUBLISHED WORK OF YC+D ARCHITECTS AND SHALL REMAIN THE PROPERTY OF YC+D ARCHITECTS IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, COPIED, DISCLOSED, DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF YC+D ARCHITECTS. VISUAL CONTACT WITH THE ABOVE DRAWINGS OR ANY PART THEREOF, SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24 LIGHTING

SHEET NUMBER:
E005-02

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Merced	**Report Page:**	**(Page 10 of 10)**
Project Address: 26th Street	**Date Prepared:**	10/13/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Belden Conlsulting Engineers	
Company:	Signature Date:
Belden Consulting Engineers	2025-10-13
Address:	CEA/ HERS Certification Identification (if applicable):
4457 Willow Road	
City/State/Zip:	Phone:
Pleasanton CA 94588	925-621-5300

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:	Responsible Designer Signature:
GERALD GONZALES	
Company:	Date Signed:
BELDEN CONSULTING ENGINEERS	2025-10-13
Address:	License:
4457 WILLOW RD, STE 100	E16961
City/State/Zip:	Phone:
PLEASANTON CA 94588	925-621-5300

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Merced	**Report Page:**	**(Page 1 of 8)**
Project Address: 26th Street	**Date Prepared:**	10/13/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Total Illuminated Hardscape Area (ft²)	4649
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval			
☐ LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas				
05	Occupancy Types within Project				

● Classroom ● Convention Center ● Office ● Support Areas ● Warehouse

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 2 of 8)**
	Date Prepared:	10/13/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
288	+	142	+	---	+	---	+	---	OR	---	=	430	≥	428	COMPLIES
										Shielding Compliance (See Table G for Details)					N/A
										Controls Compliance (See Table H for Details)					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 includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 3 of 8)**
	Date Prepared:	10/13/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
W	W - 26W LED	☐ Linear	26	Mfr. Spec	13	New	☐	338	NA: < 6200 lumens	☐	☐
XE	XE - 10W	☐ Linear	10	Mfr. Spec	9	New	☐	90	NA: < 6200 lumens	☐	☐
							Total Design Watts:	428			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 4 of 8)**
	Date Prepared:	10/13/2025

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	10/13/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
2 Story Pedestrian Hardscape	3544	0.019	67.3	0	0.2	0	67
Storage Pedestrian Hardscape	1105	0.019	21	0	0.2	0	21
						Initial Wattage Allowance for Entire Site (Watts):	200
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	288

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 6 of 8)**
	Date Prepared:	10/13/2025

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
2 Story Entrance/Exit	Building Entrance/Exit	10	15	150	XE	10	9	90	90
							Total Design Watts for this Area:	90	
Storage Entrance/Exit	Building Entrance/Exit	4	15	60	W	26	2	52	52
							Total Design Watts for this Area:	52	
							Total Allowance (Watts) All Areas:		142

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	10/13/2025

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Merced	**Report Page:**	**(Page 8 of 8)**
Project Address: 26th Street	**Date Prepared:**	10/13/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Belden Conlsulting Engineers	
Company:	Signature Date:
Belden Consulting Engineers	2025-10-13
Address:	CEA/ HERS Certification Identification (if applicable):
4457 Willow Road	
City/State/Zip:	Phone:
Pleasanton CA 94588	925-621-5300

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:	Responsible Designer Signature:
GERALD GONZALES	
Company:	Date Signed:
BELDEN CONSULTING ENGINEERS	2025-10-13
Address:	License:
4457 WILLOW RD, STE 100	E16961
City/State/Zip:	Phone:
PLEASANTON CA 94588	925-621-5300

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PROJECT:

MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE

DSA SUBMITTAL

SHEET TITLE

TITLE 24 LIGHTING

SHEET NUMBER:

E006-02

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: Merced	**Report Page:** (Page 1 of 6)
Project Address: 26th Street	**Date Prepared:** 10/13/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	02	Climate Zone	1
			03	Occupancy Types Within Project:	All Other OccupanciesClassroomConvention CenterOfficeSupport Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSB	New electrical service equipment and meter	288	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

STATE OF CALIFORNIA
Electrical Power Distribution
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CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Merced	**Report Page:** (Page 2 of 6)
	Date Prepared: 10/13/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03				04	05	
Electrical Service Designation/ Description	Rating[1] (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
MSB	288	☒	☒	☒	☐	E004	☐	☐

[1] *FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Merced	**Report Page:** (Page 3 of 6)
	Date Prepared: 10/13/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
MSB					
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E004	☐	☐
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E004	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E401	☐	☐
Charging stations for electrical vehicle	All loads in aggregate	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	E700-01	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Merced	**Report Page:** (Page 4 of 6)
	Date Prepared: 10/13/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.

01	02				03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
							Pass	Fail
MSB	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible	E004	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Merced	**Report Page:** (Page 5 of 6)
	Date Prepared: 10/13/2025

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
MSB	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E200	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .*

J. ELECTRIC READY BUILDINGS

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 selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Merced	**Report Page:** (Page 6 of 6)
Project Address: 26th Street	**Date Prepared:** 10/13/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Belden Conlsulting Engineers	Documentation Author Signature:
Company: Belden Consulting Engineers	Signature Date: 2025-10-13
Address: 4457 Willow Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Pleasanton CA 94588	Phone: 925-621-5300

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 conforms 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: GERALD GONZALES	Responsible Designer Signature:
Company: BELDEN CONSULTING ENGINEERS	Date Signed: 2025-10-13
Address: 4457 WILLOW RD, STE 100	License: E16961
City/State/Zip: PLEASANTON CA 94588	Phone: 925-621-5300

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belden@beldeninc.com

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MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

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PHASE

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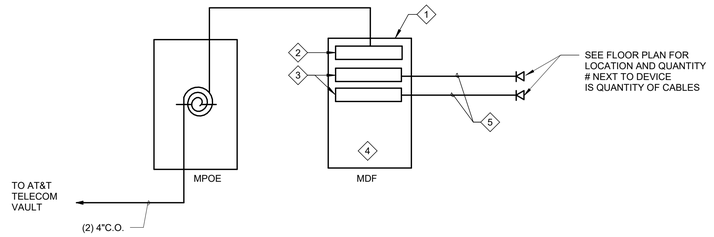
SHEET TITLE

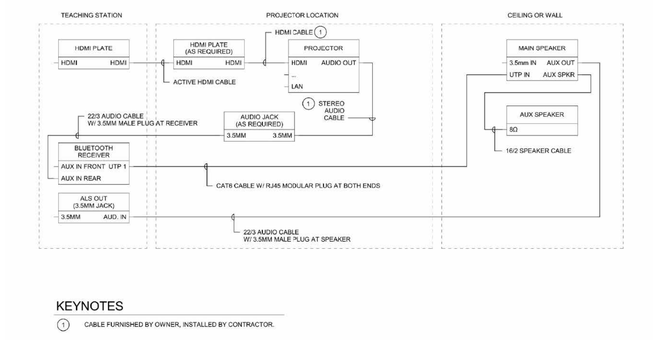
TITLE 24

SHEET NUMBER:

E007-02



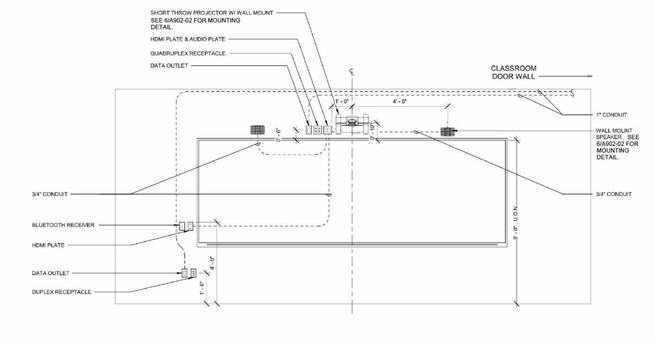
1 LOW VOLTAGE RISER DIAGRAM
NO SCALE



KEYNOTES

1 CABLE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

2 TYPICAL CLASSROOM AV WIRING DIAGRAM
12" = 1'-0"



3 TYPICAL CLASSROOM WALL ELEVATION - WALL MOUNT PROJECTOR AND SPEAKERS - CONDUIT
12" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY EXACT LOCATION OF CABINET WITH I.T. DEPARTMENT BEFORE ROUGH-IN. MOUNT SO THAT CABINET DOOR CAN SWING FULLY OPEN.
2. PROVIDE ALL MISCELLANEOUS CONNECTORS, WIRE MANAGEMENT, SHELF BRACKETS, CABLE SPLICE KITS, MOUNTING HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
3. PROVIDE PATCH PANELS FOR QUANTITY OF DATA OUTLETS IN PROHECT PLUS 20%.
4. LEAVE ADEQUATE CABLE LENGTH TO ALLOW DOOR TO SWING FULLY OPEN.
5. PROVIDE AND INSTALL #6 TO PANEL OR MAIN GROUND BUS BAR.

◇ SHEET NOTES

1. PROVIDE 48" BLACK WITH DOUBLE SWING CABINET WITH 19" WIDE EIA RACK MOUNT AND TINTED FLEXIGLASS FRONT DOOR, CHATSWORTH PRODUCT # 12419-748.
2. PROVIDE FIBER PATCH PANEL.
3. PROVIDE PATCH PANEL.
4. PROVIDE 2U HORIZONTAL WIRE MANAGER.
5. PROVIDE CAT6 CABLE.

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SHEET TITLE
LOW VOLTAGE RISER DIAGRAM

SHEET NUMBER:
E008-02

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RATH® Communications
N56W24720 N Corporate Circle
Sussex, WI 53089
800-451-1460
info_rath@rathcommunications.com

Project Name: *MARS/ELO-P FACILITY* **Date:** *10/14/2025*
Contractor Name: *BELDEN CONSULTING*

Base Station Size	Call Box Count
12 Zone	1

Supervisor Boards	Standby Hours	Alarm Hours
1 (1-16 Call Box System)	24	4

Safety Margin
None

Standby AH Required	23.6
Alarm Adder	6.1
Safety Margin Adder	0.0
Total AH Required	**29.7**

*2500-PWRUPS Standard Battery Size = 82AH
*This is a guide, results may vary by installation
*Runtime data based off of quarterly lab testing

Select System Size	None	None
12 Zone	5%	1 (1-16 Call Box System)
16 Zone	10%	2 (28-36 Call Box System)
28 Zone	15%	3 (56-92 Call Box System)
36 Zone	20%	5 (92+ Call Box System)
56 Zone	25%	
76 Zone	30%	
96 Zone		
116 Zone		

Base Station	Standby	Active
DC Amps	1.3	1.3
Watts	8.4	10.4

Supervisor	Standby	Active
DC Amps	1.5	2.3
Watts	1.4	1.96

Call Box	Standby	Active
DC Amps	0.001	0.1
Watts	0.03	3

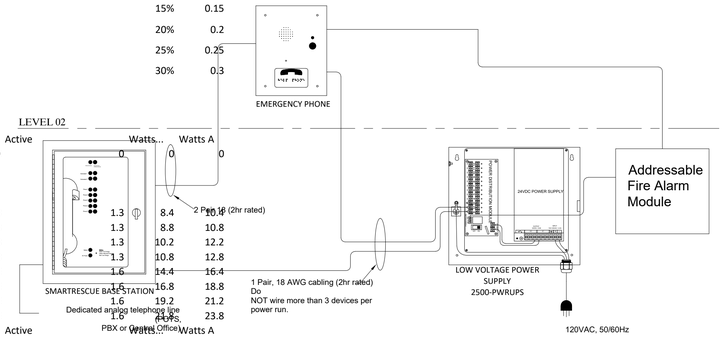
DC AMP x time x inefficiency factor = Run Time
DC AMP = Current * 120/Battery Voltage

Inverter Factor	1.3	None	0
Active Call Box Adder	0.1	5%	0.05
		10%	0.1
		15%	0.15
		20%	0.2
		25%	0.25
		30%	0.3

AH=Hours x Watts/10

Base	Standby	Active	Watts...	Watts A
Select System Size	0	0	0	0
12 Zone	1.3	1.3	8.4	10.4
16 Zone	1.3	1.3	8.8	10.8
28 Zone	1.3	1.3	10.2	12.2
36 Zone	1.3	1.3	10.8	12.8
56 Zone	1.6	1.6	14.4	16.4
76 Zone	1.6	1.6	16.8	18.8
96 Zone	1.6	1.6	19.2	21.2
116 Zone	1.6	1.6	21.8	23.8

Supervisor	Standby	Active	Watts...	Watts A
None	0	0	0	0
1 (1-16 Call Box System)	1.5	2.3	1.4	1.8
2 (28-36 Call Box System)	1.5	2.3	1.4	1.8
3 (56-92 Call Box System)	4.5	5.3	5.1	5.5
5 (92+ Call Box System)	4.5	5.3	7.9	8.3



LEGEND

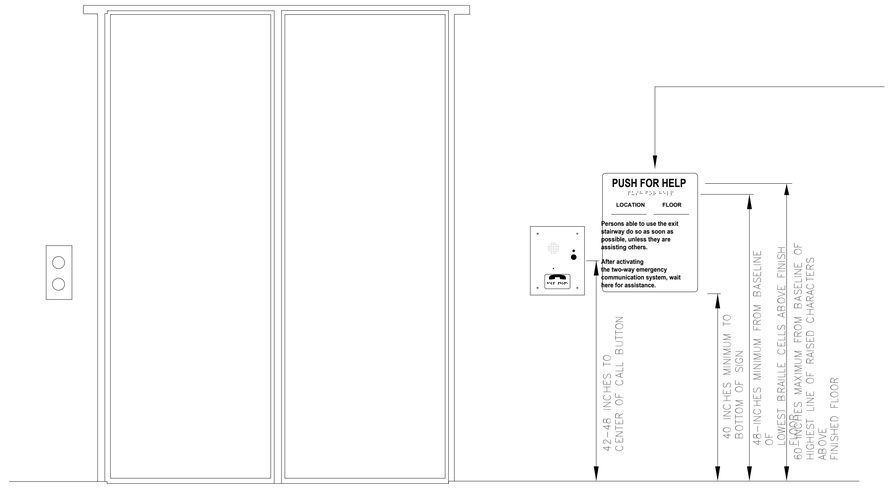
QTY	SYM	DESCRIPTION	PART NO.	MANUFACTURER
1	MCP	SMARTRESCUE BASE STATION	2500-210D	RATH
1	PS	POWER SUPPLY	2500-PWRUPS	RATH
1		12 ZONE SUPERVISOR BOARD	2500-12SPRVSR	RATH
1	IC	CALL STATIONS	2400-805SSPC2	RATH
1		SIGNAGE	7049SS	RATH

WIRE LEGEND

MNF	TAG	DESCRIPTION	PART NO.	DEVICES
RATH	A	18AWG 2 CONDUCTORS SOLID (2HR RATED)	RP66010001 OR EQUIVALENT	SUPERVISORY
RATH	C	18AWG 4 CONDUCTORS SOLID (2HR RATED)	66102 OR EQUIVALENT	2-WAY COMM

SEQUENCE OF OPERATION MATRIX

1. THE TWO WAY EMERGENCY COMMUNICATION SYSTEM IS MONITORED BY THE FIRE ALARM SYSTEM FOR TROUBLES. THIS INCLUDE THE COMMAND BASE STATION, THE POWER SUPPLY AND ALL CALL STATIONS. IF A TROUBLE OCCURS THE FIRE ALARM SYSTEM WILL DISPLAY A SUPERVISORY SIGNAL ON THE FACU AND REMOTE ANNUNCIATOR AND SEND A SIGNAL TO THE 24 HOUR CENTRAL STATION.
2. THE CALL BOXES SHALL BE HANDS-FREE AND BE A PUSH-BUTTON-ONCE TO TALK SYSTEM. ONCE THE BUTTON HAS BEEN PUSHED, THE CALL BOX WILL CALL THE BASE STATION. IF NO ANSWER AT THE BASE STATION, IT WILL AUTOMATICALLY CALL PREPROGRAMMED EMERGENCY NUMBERS. THE CALL BOX MUST BE CAPABLE OF BEING PROGRAMMED WITH UP TO 5 EMERGENCY NUMBERS.
3. CALL BOX SHALL HAVE LOCATION MESSAGE CAPABILITY. CALL BOX MUST HAVE A MINIMUM 18 SECOND RECORDABLE MESSAGE CAPABILITY, PROGRAMMABLE TO PLAY 1 OR 2 TIMES. CALL BOX SHALL NOTIFY CALLED PARTY OF THE LOCATION OF THE CALL UPON BEING RECEIVED AT THE EMERGENCY DISPATCH CENTER.
4. CALL BOX SHALL BE CAPABLE OF ALLOWING THE CALLED PARTY TO REPLAY THE LOCATION MESSAGE IF NECESSARY TO ENSURE AN UNDERSTANDING OF THE CALLER LOCATION.
5. IF SYSTEM IS NOT ATTENDED 24 HOURS A DAY, THE CALL BOX MUST DIAL A SECONDARY LOCATION OUTSIDE THE BUILDING TO ACTIVATE TWO WAY OFF-SITE PERSON TO PERSON VOICE COMMUNICATIONS.
6. ONCE CALL HAS BEEN MADE (BUTTON PUSHED), THE CALL CAN ONLY BE TERMINATED BY THE CALLED PARTY.
7. CALL BOX MUST HAVE A RED LED THAT WILL LIGHT UP UPON PUSH OF THE BUTTON. THE LIGHT SHALL BE A SOLID COLOR WHEN THE CALL BOX IS ACTIVATED, AND WILL FLASH WHEN CALL HAS BEEN ANSWERED.



TWC DEVICE ELEVATION DETAIL
SCHEMATIC
3
E4.2

PUSH FOR HELP

LOCATION **FLOOR**

Persons able to use the exit stairway do so as soon as possible, unless they are assisting others.

After activating the two-way emergency communication system, wait here for assistance.

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

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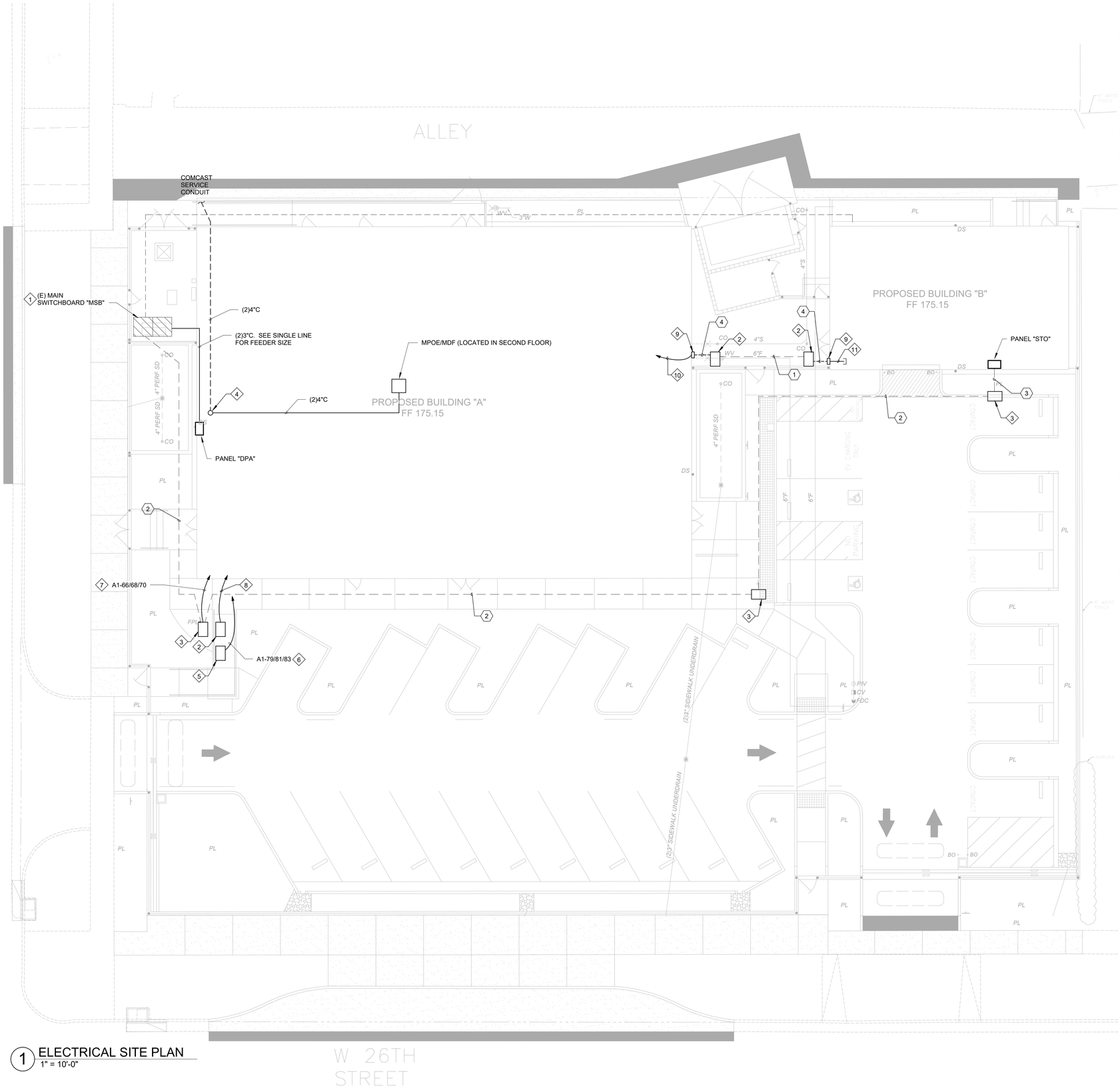
SHEET TITLE
TWO WAY COMMUNICATION DIAGRAM AND DETAIL

SHEET NUMBER:
E009-02



1 ELECTRICAL SITE PLAN
1" = 10'-0"

GENERAL NOTES

1. SEE ELECTRICAL SITE DRAWING PACKAGE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SHEET NOTES

1. NEW MAIN SWITCHBOARD INSTALLED UNDER ELECTRICAL SITE DRAWINGS. SEE E101-02 ELECTRICAL SITE DRAWING PACKAGE FOR REQUIREMENTS.
2. NEW SIGNAL PULLBOX INSTALLED UNDER ELECTRICAL SITE DRAWINGS. SEE E101-02 ELECTRICAL SITE DRAWING PACKAGE FOR REQUIREMENTS.
3. NEW POWER PULLBOX INSTALLED UNDER ELECTRICAL SITE DRAWINGS. SEE E101-02 ELECTRICAL SITE DRAWING PACKAGE FOR REQUIREMENTS.
4. RISE UP IN ELECTRICAL ROOM.
5. NEW LIGHTING PULLBOX INSTALLED UNDER ELECTRICAL SITE DRAWINGS. SEE E101-02 ELECTRICAL SITE DRAWING PACKAGE FOR REQUIREMENTS.
6. INTERCEPT LIGHTING CIRCUITS INSTALLED UNDER E101-02 ELECTRICAL SITE DRAWING PACKAGE. EXTEND 1-1/4"C WITH 4 #10 CU THWN, 1 #10 CU GROUND TO PANEL INDICATED. ROUTE VIA TIMECLOCK.
7. INTERCEPT MOTORIZED GATE CIRCUITS INSTALLED UNDER E101-02 ELECTRICAL SITE DRAWING PACKAGE. EXTEND 1-1/4"C WITH 4 #10 CU THWN, 1 #10 CU GROUND TO PANEL INDICATED.
8. ROUTE 2"C TO 2-STORY AND STUB CONDUIT INTO ACCESSIBLE CEILING SPACE.
9. PROVIDE NEMA 3R PULL CAN. SIZE PER CEC.
10. ROUTE (1)2"C TO FACP AND ROUTE (1)2"C TO MDF.
11. STUB CONDUIT INTO STORAGE BUILDING.

CONDUIT SCHEDULE

1. (2)2" C.O. FOR SIGNAL UNDER E101-02 ELECTRICAL SITE DRAWING PACKAGE. UTILIZE TO RUN CABLES.
2. (1)3" C.O. FOR PANEL "STO" UNDER E101-02 ELECTRICAL SITE DRAWING PACKAGE. UTILIZE TO RUN CABLES.
3. (N)(1)3"C - PANEL "STO"
4. (N)(2)2"C - SIGNAL

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MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER:

E101-02

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GENERAL NOTES

A. MAXIMUM VOLTAGE DROP FOR BRANCH CIRCUITING SHALL BE LESS THAN 3%. CONTRACTOR TO UPSIZE CONDUCTORS AND FEEDER ACCORDINGLY.

B. ALL RECEPTACLES, F.A. DEVICES, ETC. THROUGHOUT (OTHER THAN ELECTRICAL AND MECHANICAL) SHALL BE COORDINATED WITH ARCHITECT'S DRAWINGS PRIOR TO ROUTING ANY CONDUITS.

C. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT, DEVICES, OUTLETS AND RECEPTACLES PER ARCHITECTURAL DRAWINGS PRIOR TO ROUTING THE CONDUIT.

D. VERIFY EXACT LOCATION OF J-BOXES (POINT OF CONNECTION) FOR DIRECT CONNECTED EQUIPMENT WITH EQUIPMENT MANUFACTURER. VERIFY THEIR REQUIREMENTS PRIOR TO ROUTING ANY CONDUIT.

E. PROVIDE J-BOX WHERE CONDUIT IS RUNNING TO EQUIPMENT.

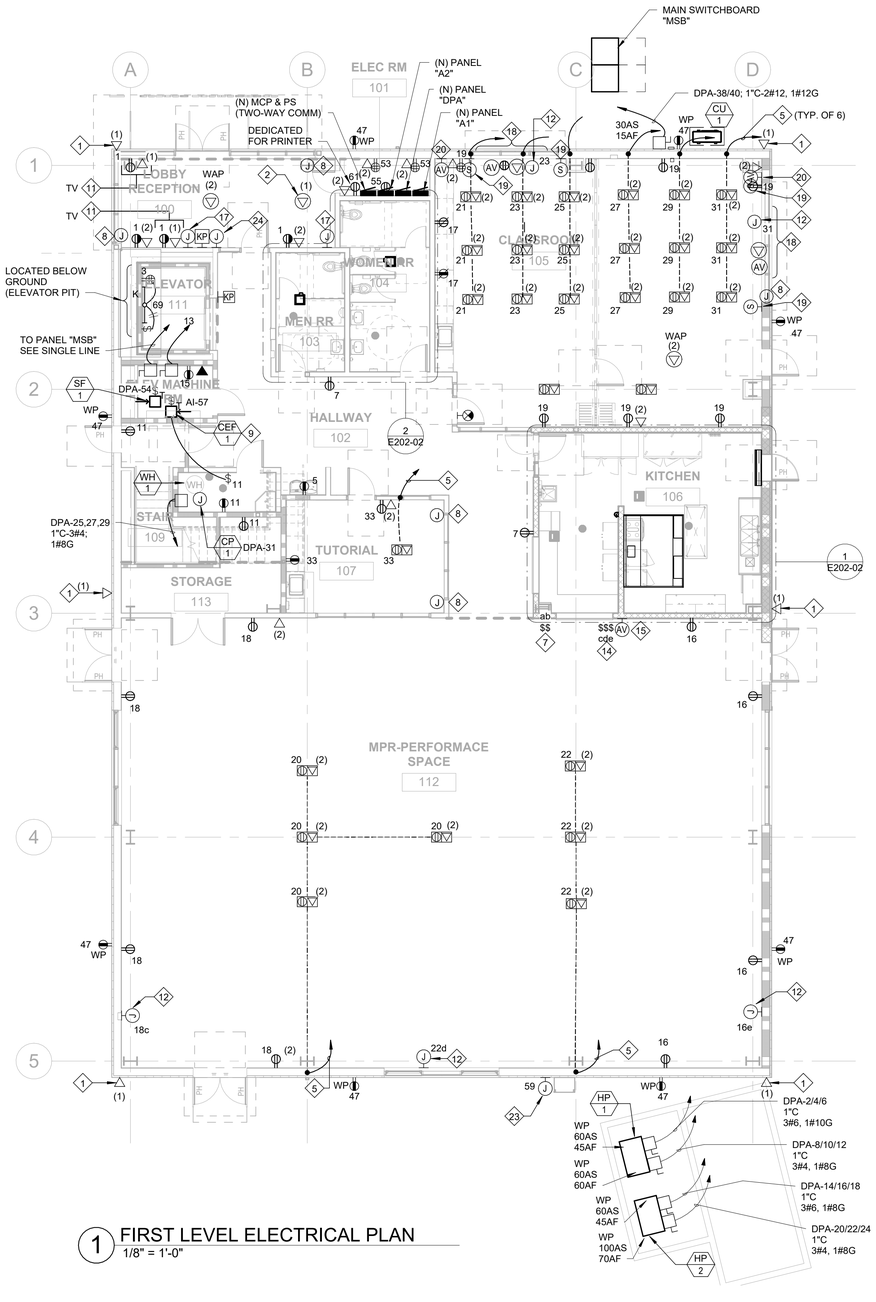
F. ALL MULTIWIRE BRANCH CIRCUIT HOME RUNS SHALL COMPLY WITH THE PROVISIONS OF ARTICLE 210.4(B). BY MEALS OF PROVIDING DEDICATED NEUTRAL FOR EACH CONDUIT.

G. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

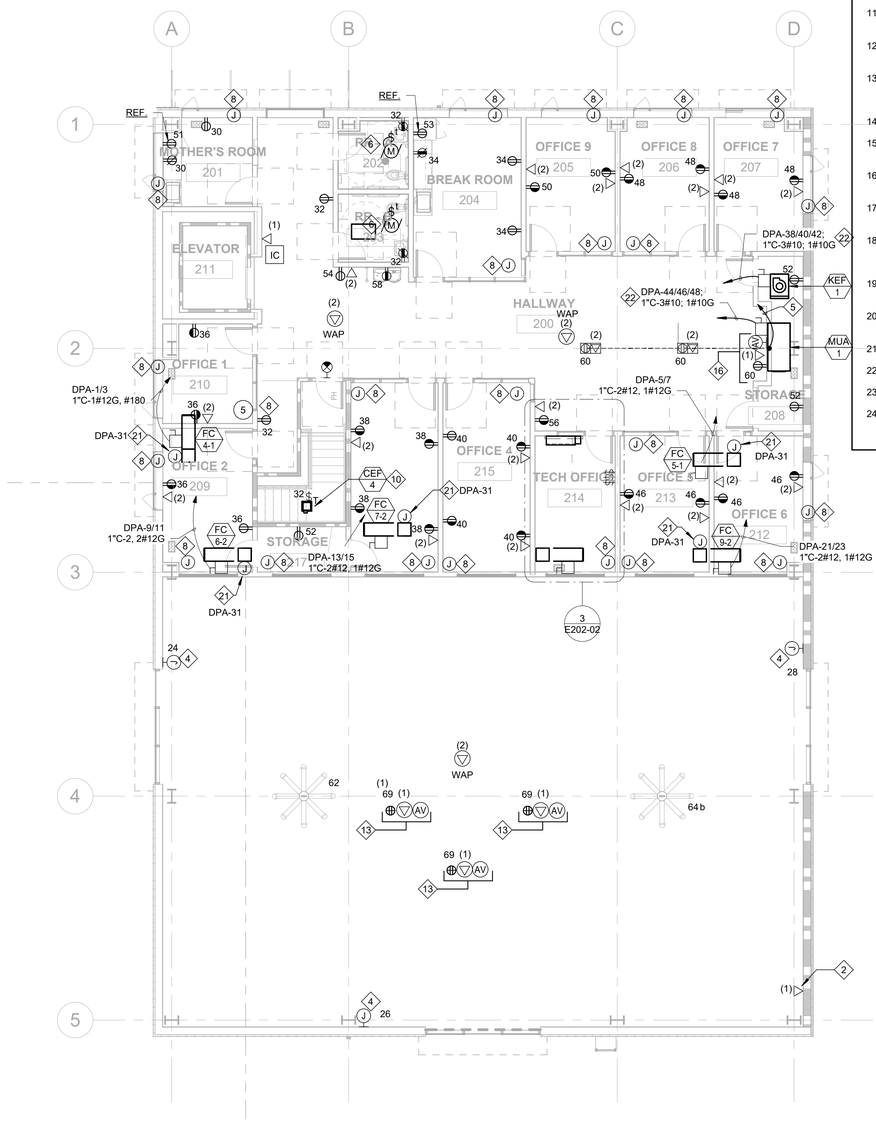
H. CONNECT ALL CIRCUITS SHOWN TO PANEL A1 UNLESS OTHERWISE NOTED.

SHEET NOTES

1. PROVIDE CAT6A CABLES TO EXTERIOR SECURITY CAMERA LOCATIONS. BOX SHALL BE WEATHER PROOF. PROVIDE 10' OF COILED CABLE COORDINATE WITH DISTRICT FOR EXACT HEIGHT AND LOCATION OF CAMERA.
2. PROVIDE CAT6A CABLES TO INTERIOR SECURITY CAMERA LOCATIONS. PROVIDE 10' OF COILED CABLE. COORDINATE WITH DISTRICT FOR EXACT HEIGHT AND LOCATION OF CAMERA.
3. NOT USED.
4. PROVIDE HARDWIRE CONNECTION TO MOTORIZED SHADES. COORDINATE EXACT HEIGHT AND LOCATION WITH SHADE INSTALLER. COORDINATE LOCATION OF BATTERY OPERATED SHADE CONTROLLER AND PROGRAMMING WITH OWNER.
5. PROVIDE (1)1"C FOR POWER AND (1)1-1/4"C FOR LOW VOLTAGE.
6. CONNECT EXHAUST FAN TO OCCUPANCY CONTROLLED RESTROOM CIRCUIT. PROVIDE RELAY AS REQUIRED.
7. PROVIDE SWITCH FOR CONTROL OF MPR CEILING FANS.
8. PROVDE JBOX FOR FUTURE MOTORIZED SHADE. ROUTE 3/4" CONDUIT TO PANEL A2. WALL MOUNT AT HEIGHT NEAR OR ABOVE TOP WINDOW HEADER.
9. CONNECT EXHAUST FAN TO SWITCH CONTROLLED CIRCUIT.
10. ROUTE THROUGH DEDICATED SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS.
11. PROVIDE POWER AND DATA CONNECTION TO MONITOR. COORDINATE EXACT HEIGHT AND LOCATION WITH INSTALLER.
12. PROVIDE 120V POWER TO MOTORIZE PROJECTOR SCREEN. RUN 3/4"C TO CONTROL SWITCH LOCATION. COORDINATE WITH OWNER FOR FINAL SWITCH LOCATION.
13. PROVIDE POWER, DATA AND AV CONTROLS TO PROJECTOR. COORDINATE EXACT LOCATION WITH INSTALLER. COORDINATE LOCATION OF AV CONTROLS WITH DISTRICT.
14. PROVIDE SWITCH FOR CONTROL OF MPR PROJECTION SCREEN.
15. AV INPUT FOR MPR PROJECTORS. PROVIDE MIN. 1-1/4"C BETWEEN EACH PROJECTOR AND INPUT LOCATION.
16. PROVIDE POWER, DATA AND HDMI CONNECTION TO MONITOR. COORDINATE EXACT HEIGHT AND LOCATION WITH INSTALLER.
17. JUNCTION BOX FOR ACCESS BUZZER AT RECEPTION DESK. COORDINATE EXACT LOCATION WITH ARCHITECT.
18. CEILING MOUNTED QUAD OUTLET, DATA OUTLET AND HOMI PLATE & AUDIO PLATE OUTLET. LOCATE ADJACENT TO SHORT THROW PROJECTOR. SEE AV RISER DIAGRAM AND WALL ELEVATION FOR ADDITIONAL REQUIREMENTS.
19. WALL MOUNTED AV SPEAKERS. SEE AV RISER DIAGRAM AND WALL ELEVATION FOR ADDITIONAL REQUIREMENTS.
20. WALL MOUNTED BLUETOOTH RECEIVER AND HOMI PLATE. SEE AV RISER DIAGRAM AND WALL ELEVATION FOR ADDITIONAL REQUIREMENTS.
21. PROVIDE 120V POWER TO MECHANICAL "MXB" UNIT LOCATED NEAR FAN COIL.
22. ROUTE POWER THROUGH KITCHEN HOOD CONTROL PANEL.
23. PROVIDE 120V POWER TO FIRE SPRINKLER BELL.
24. JUNCTION BOX FOR ACCESS BUZZER AT DOOR LOCATION. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.



1 FIRST LEVEL ELECTRICAL PLAN
1/8" = 1'-0"



2 SECOND LEVEL ELECTRICAL PLAN
1/8" = 1'-0"

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MCSD - 26TH ST.

CLIENT:
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SHEET TITLE
ELECTRICAL PLANS

SHEET NUMBER:
E200-02

SHEET NOTES

1. DIMMER SWITCH FOR MPR HIGH BAY LIGHT FIXTURES
2. CONNECT SWITCH LEG Z TO AUTOMATIC TIME SWITCH CONTROL.
3. EXTERIOR WALL LIGHT. ROUTE THROUGH LIGHTING CONTROL PANEL TO CIRCUIT INDICATED.
4. EXTERIOR CANOPY DOWNLIGHT. ROUTE THROUGH LIGHTING CONTROL PANEL TO CIRCUIT INDICATED.

GENERAL NOTES

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B. ALL RECEPTACLES, F.A. DEVICES, ETC. THROUGHOUT (OTHER THAN ELECTRICAL AND MECHANICAL) SHALL BE COORDINATED WITH ARCHITECT'S DRAWINGS PRIOR TO ROUTING ANY CONDUITS.

C. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT, DEVICES, OUTLETS AND RECEPTACLES PER ARCHITECTURAL DRAWINGS PRIOR TO ROUTING THE CONDUIT.

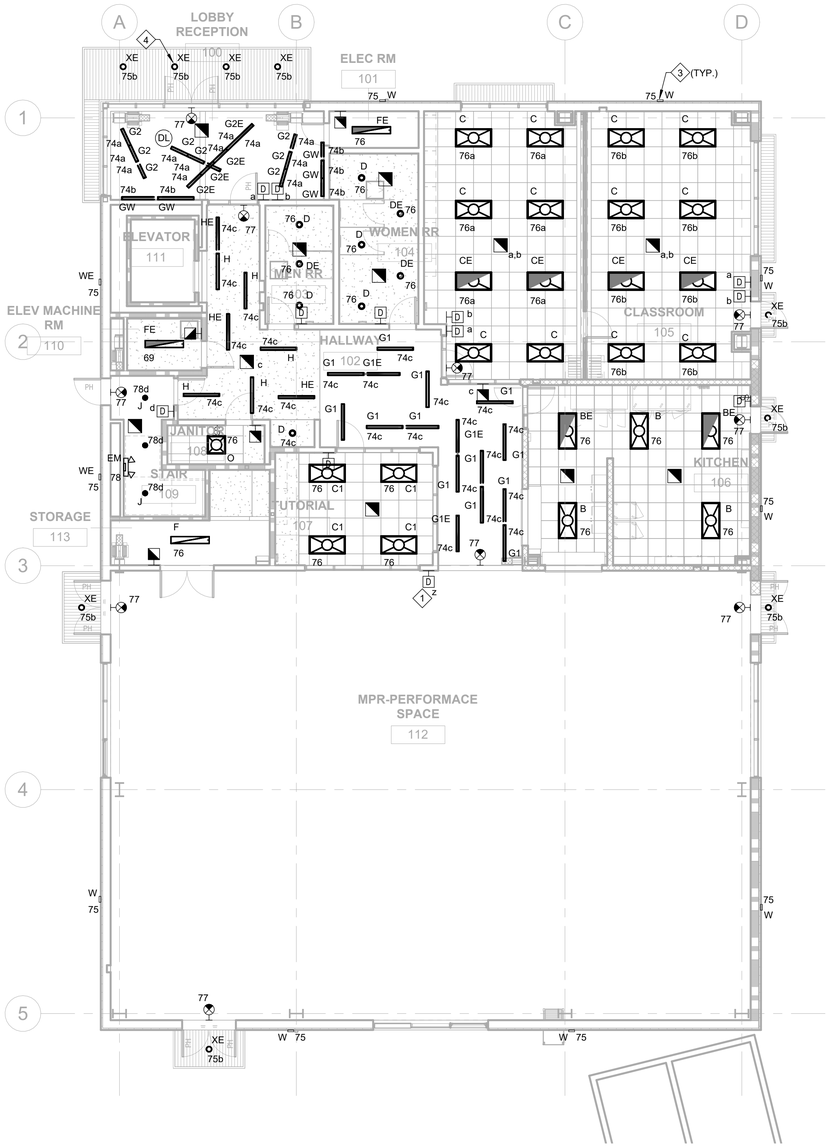
D. VERIFY EXACT LOCATION OF J-BOXES (POINT OF CONNECTION) FOR DIRECT CONNECTED EQUIPMENT WITH EQUIPMENT MANUFACTURER. VERIFY THEIR REQUIREMENTS PRIOR TO ROUTING ANY CONDUIT.

E. PROVIDE J-BOX WHERE CONDUIT IS RUNNING TO EQUIPMENT.

F. ALL MULTIWIRE BRANCH CIRCUIT HOME RUNS SHALL COMPLY WITH THE PROVISIONS OF ARTICLE 210.4(B). BY MEALS OF PROVIDING DEDICATED NEUTRAL FOR EACH CONDUIT.

G. PROVIDE LOW VOLTAGE WIRING CONNECTIONS TO ALL T-24 CONTROL DEVICES SHOWN ON PLAN.

H. ALL LIGHT FIXTURES INSTALLED OVER UTENSILS WASHING AREAS, FOOD HANDLING OR FOOD PREPARATION AREAS, OR OPEN FOOD STORAGE AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.



1 FIRST LEVEL LIGHTING PLAN
1/8" = 1'-0"

2 SECOND LEVEL LIGHTING PLAN
1/8" = 1'-0"

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MCSD - 26TH ST.

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MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

LIGHTING PLANS

SHEET NUMBER:

E201-02

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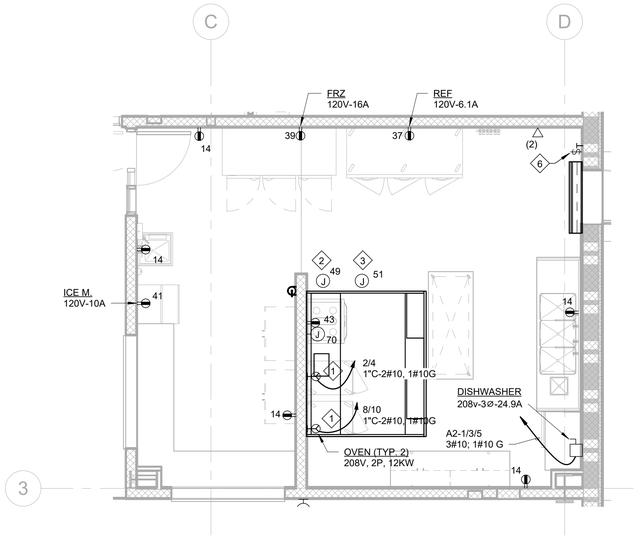
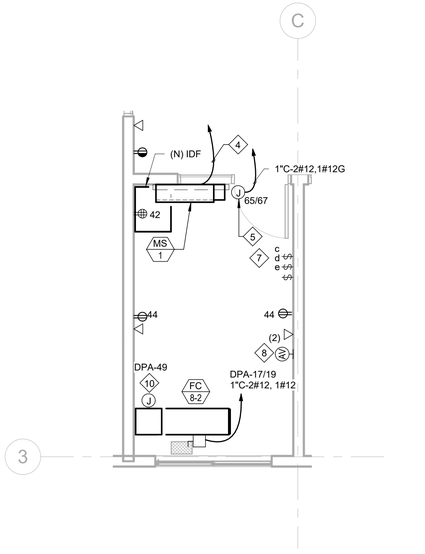
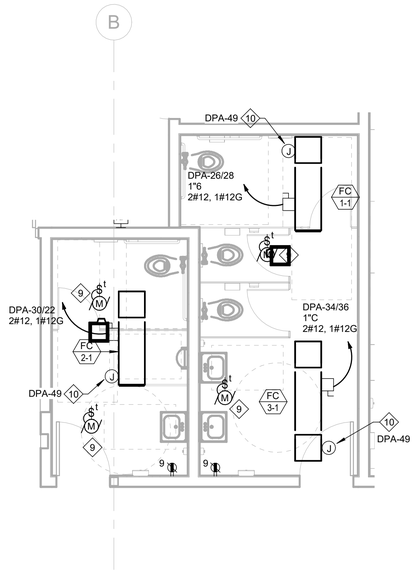


1 KITCHEN 106
1/4" = 1'-0"



3 CONTROL BOOTH 214
1/4" = 1'-0"



2 MENS RR 103, WOMEN RR 104
1/4" = 1'-0"

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D. VERIFY EXACT LOCATION OF J-BOXES (POINT OF CONNECTION) FOR DIRECT CONNECTED EQUIPMENT WITH EQUIPMENT MANUFACTURER. VERIFY THEIR REQUIREMENTS PRIOR TO ROUTING ANY CONDUIT.

E. PROVIDE J-BOX WHERE CONDUIT IS RUNNING TO EQUIPMENT.

F. ALL MULTIWIRE BRANCH CIRCUIT HOME RUNS SHALL COMPLY WITH THE PROVISIONS OF ARTICLE 210.4(B). BY MEALS OF PROVIDING DEDICATED NEUTRAL FOR EACH CONDUIT.

G. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

H. CONNECT ALL CIRCUITS SHOWN TO PANEL A1 UNLESS OTHERWISE NOTED.

I. ALL 125-VOLT, SINGLE PHASE, 15- AND 20- AMPERE RECEPTACLES, INSTALLED IN KITCHENS, SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.

J. ALL POWER LOCATED UNDER THE HOOD SHALL BE SHUNT TRIPPED WITH HOOD ANSUL SYSTEM.

K. ALL SINGLE PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN OR AREAS WITH A SINK AND PERMANENT PROVISIONS FOR EITHER FOOD PREPARATION OR COOKING SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL. THE GFCI SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE RECEPTACLES WILL BE LOCATED BEHIND EQUIPMENT THAT IS EITHER FIXED IN PLACE OR DIFFICULT TO MOVE, THE GFCI PROTECTION MAY BE PART OF EITHER THE CICUIT BREAKER OR ANOTHER REMOTE GFCI DEVICE.

SHEET NOTES

1. PROVIDE 208V-30A-1PHASE, NEMA 6-30P.
2. PROVIDE 120V POWER TO KITCHEN HOOD.
3. PROVIDE 120V POWER TO ANSUL SYSTEM.
4. MS-1 POWER IS FED FROM OUTDOOR UNIT CU-1. RUN 1"C - 2#12, 1#12G BETWEEN THE UNITS.
5. PROVIDE 208V,1Ø POWER FOR CONDENSATE PUMP.
6. PROVIDE 120V POWER TO FAN CURTAIN. COORDINATE EXACT HEIGHT AND LOCATION WITH INSTALLER.
7. PROVIDE SWITCH FOR CONTROL OF MPR PROJECTION SCREEN.
8. AV INPUT FOR MPR PROJECTION SCREENS.
9. CONNECT EXHAUST FAN TO OCCUPANCY CONTROLLED RESTROOM CIRCUIT. PROVIDE RELAY AS REQUIRED.
10. PROVIDE 120V POWER TO MECHANICAL "MXB" UNIT LOCATED NEAR FAN COIL.
11. PROVIDE 120V POWER TO GAS VALVE. COORDINATE EXACT HEIGHT AND LOCATIONS WITH INSTALLER.

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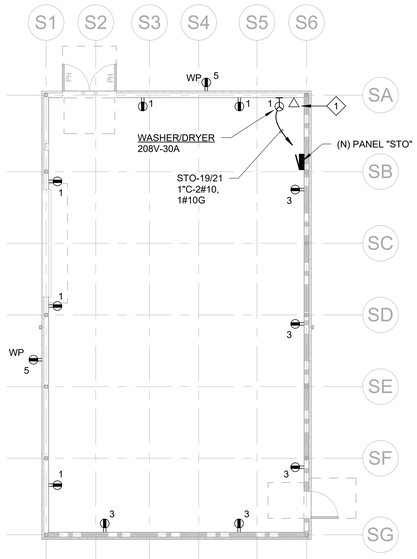
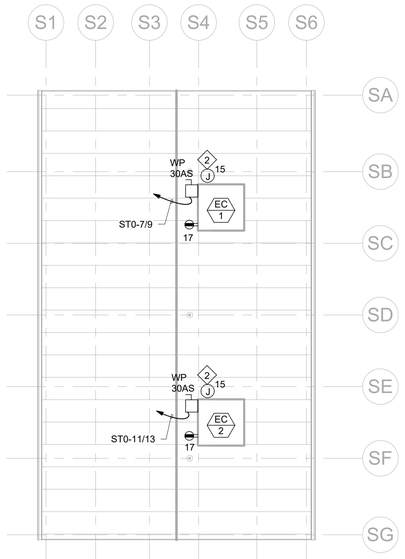
SHEET TITLE
ELECTRICAL PARTIAL PLANS

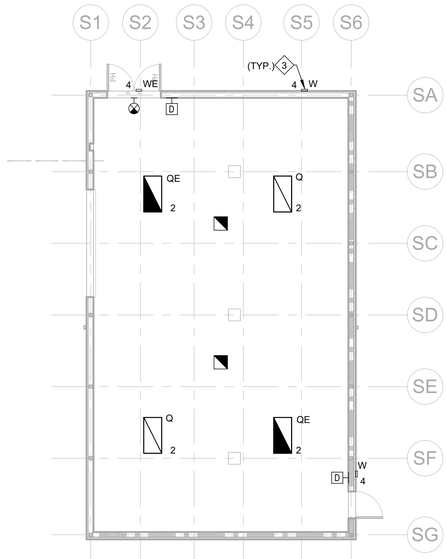
SHEET NUMBER:
E202-02



1 STORAGE BUILDING ELECTRICAL PLAN
1/8" = 1'-0"



2 STORAGE BUILDING ELECTRICAL ROOF PLAN
1/8" = 1'-0"



3 STORAGE BUILDING LIGHTING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. MAXIMUM VOLTAGE DROP FOR BRANCH CIRCUITING SHALL BE LESS THAN 3%. CONTRACTOR TO UPSIZE CONDUCTORS AND FEEDER ACCORDINGLY.

B. ALL RECEPTACLES, F.A. DEVICES, ETC. THROUGHOUT (OTHER THAN ELECTRICAL AND MECHANICAL) SHALL BE COORDINATED WITH ARCHITECT'S DRAWINGS PRIOR TO ROUTING ANY CONDUITS.

C. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT, DEVICES, OUTLETS AND RECEPTACLES PER ARCHITECTURAL DRAWINGS PRIOR TO ROUTING THE CONDUIT.

D. VERIFY EXACT LOCATION OF J-BOXES (POINT OF CONNECTION) FOR DIRECT CONNECTED EQUIPMENT WITH EQUIPMENT MANUFACTURER. VERIFY THEIR REQUIREMENTS PRIOR TO ROUTING ANY CONDUIT.

E. PROVIDE J-BOX WHERE CONDUIT IS RUNNING TO EQUIPMENT.

F. ALL MULTIWIRE BRANCH CIRCUIT HOME RUNS SHALL COMPLY WITH THE PROVISIONS OF ARTICLE 210.4(B). BY MEALS OF PROVIDING DEDICATED NEUTRAL FOR EACH CONDUIT.

G. PROVIDE LOW VOLTAGE WIRING CONNECTIONS TO ALL T-24 CONTROL DEVICES SHOWN ON PLAN.

◇ SHEET NOTES

1. PROVIDE CATOA CABLES TO SECURITY CAMERA LOCATIONS. BOX SHALL BE WEATHER PROOF. PROVIDE 10' OF COILED CABLE COORDINATE WITH DISTRICT FOR EXACT HEIGHT AND LENGTH OF CAMERA.
2. PROVIDE 120V CONVERTER TO PUMP.
3. EXTERIOR WALL LIGHT. ROUTE THROUGH LIGHTING CONTROL PANEL TO CIRCUIT INDICATED.

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SHEET TITLE
STORAGE BUILDING
ELECTRICAL PLAN

SHEET NUMBER:
E300-02

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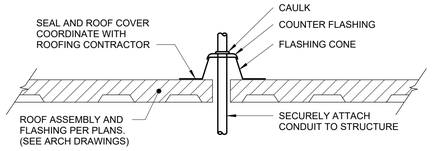
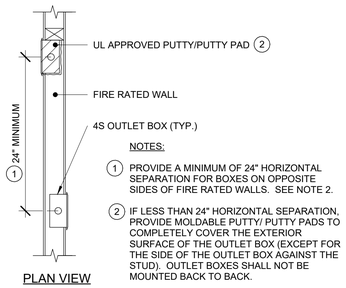


5 FLASHED ROOF JACK DETAIL
12" = 1'-0"



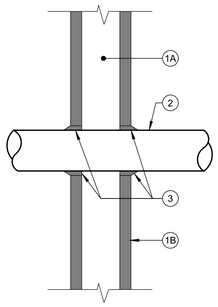
NOTES:

1. PROVIDE A MINIMUM OF 24" HORIZONTAL SEPARATION FOR BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS. SEE NOTE 2.
2. IF LESS THAN 24" HORIZONTAL SEPARATION, PROVIDE MOLDABLE PUTTY/ PUTTY PADS TO COMPLETELY COVER THE EXTERIOR SURFACE OF THE OUTLET BOX (EXCEPT FOR THE SIDE OF THE OUTLET BOX AGAINST THE STUD). OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK.

6 SEPARATION OF BOXES IN FIRE RATED WALL
12" = 1'-0"

SYSTEM NO. WL1001
(FORMERLY SYSTEM NO. 147)

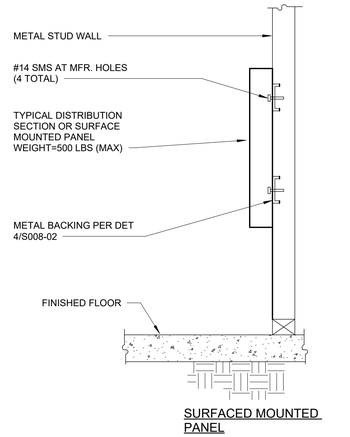
F RATING - 1, 2, 3 OR 4 HOUR (SEE ITEMS 2 & 3)
T RATING - 0, 1, 2, 3 & 4 HOUR (SEE ITEM 3)
L RATING AT AMBIENT -- LESS THAN 1 CFM/SQ FT
L RATING AT 400°F -- LESS THAN 1 CFM/SQ FT



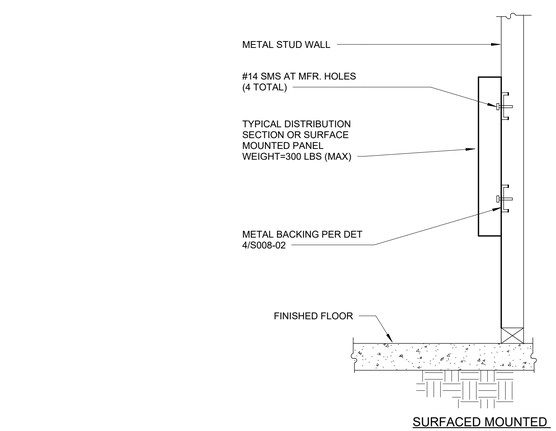
1. WALL ASSEMBLY -- THE 1, 2, 3, OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 LF U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS -- STEEL STUDS TO MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
   B. WALLBOARD, GYPSUM -- NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
2. PIPE OR CONDUIT -- NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL -- CAULK -- CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY, THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM. IN.	ANNULAR SPACE IN.	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	0 TO 3/16	3 OR 4	3OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1OR 2	0

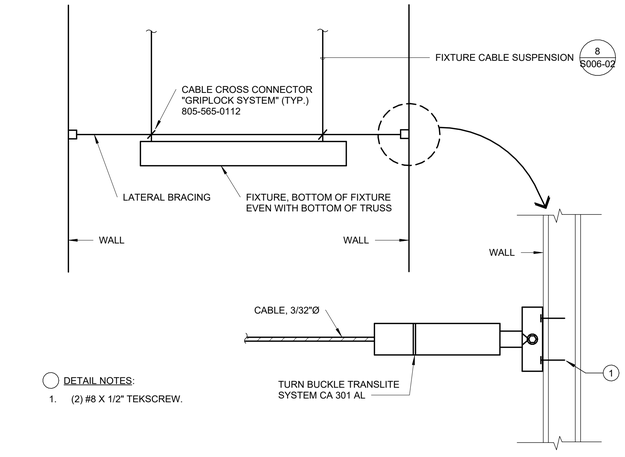
3 FIRE STOP CONDUIT WALL PENETRATION - STEEL STUDS ONLY
NO SCALE



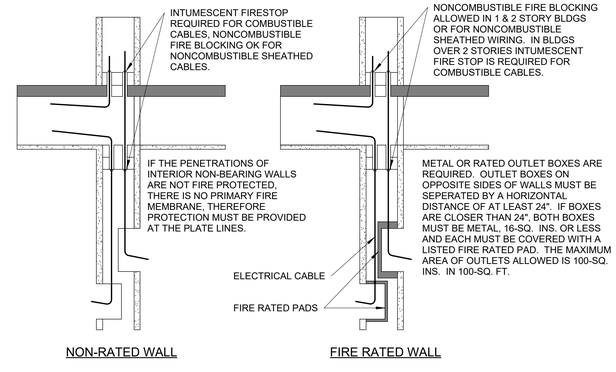
1 ELECTRICAL EQUIPMENT ANCHORAGE METAL DETAIL
12" = 1'-0"



7 IDF EQUIPMENT ANCHORAGE METAL DETAIL
12" = 1'-0"



4 SUSPENDED LIGHT FIXTURE LATERAL BRACING METAL
NO SCALE



2 ELECTRICAL PENETRATION DETAIL
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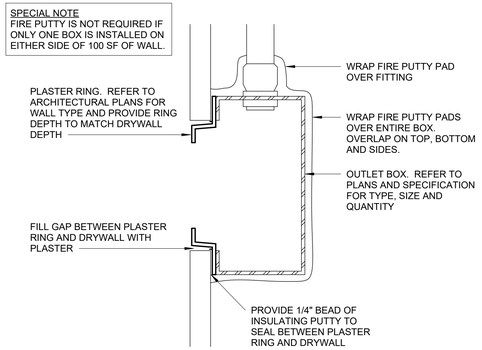
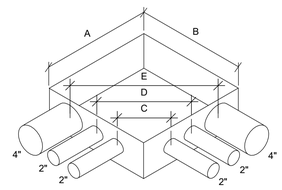


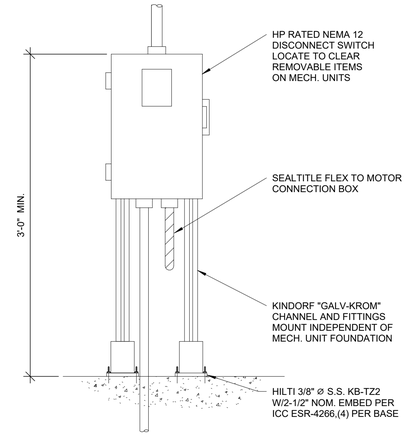
5 TYPICAL FIRE RATED JUNCTION BOX INSTALLATION
NO SCALE



EXAMPLE:
A = (6 x 4") + 2" + 2" = 28"
B = (6 x 4") + 2" + 2" = 28"
C = (6 x 2") = 12" MINIMUM
D = (6 x 2") = 12" MINIMUM
E = (6 x 4") = 24"

NOTE:
SIZE MAY NEED TO BE INCREASED TO MEET REQUIREMENTS OF CEC, COMPLY WITH STANDARD BOX SIZES OR FOR SHIELDED CABLES.

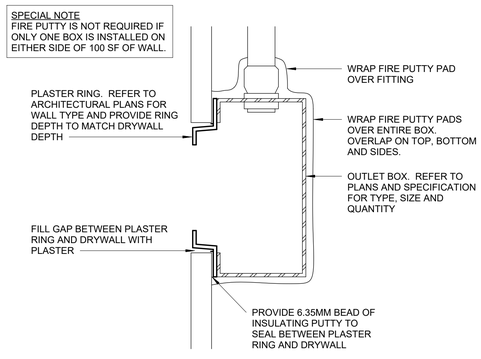
3 PULL BOX SIZING ('L' PULLS) LESS THAN 600V
12" = 1'-0"



NOTE:

SUPPORT AND LOCATE INCOMING CONDUIT TO SUIT ACTUAL CONDITIONS ENCOUNTERED.

1 TYPICAL DISCONNECT SWITCH DETAIL
1/8" = 1'-0"



4 OUTLET BOX INSTALLATION IN FIRE RATED PARTITION DETAIL
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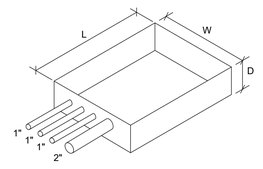

EXOTHERMIC

SIZING JUNCTION BOXES FOR 'U' PULLS

L = LARGEST RACEWAY x DIAMETER OF ALL OTHER RACEWAYS IN ONE ROW

W = TOTAL DIAMETER OF ALL RACEWAYS IN ONE ROW IN THAT ROW x 2

D = LARGEST RACEWAY IN EACH ROW x 1.5

EXAMPLE:
L = 6 x 2" = 12" + 1" + 1" = 15"
W = 2" + 1" + 1" + 1" = 5 x 2 = 10"
D = 2" x 1.5 = 3"

NOTE:
SIZE MAY NEED TO BE INCREASED TO MEET REQUIREMENTS OF CEC, COMPLY WITH STANDARD BOX SIZES OR FOR SHIELDED CABLES.

2 PULL BOX SIZING ('U' PULLS) LESS THAN 600V
12" = 1'-0"

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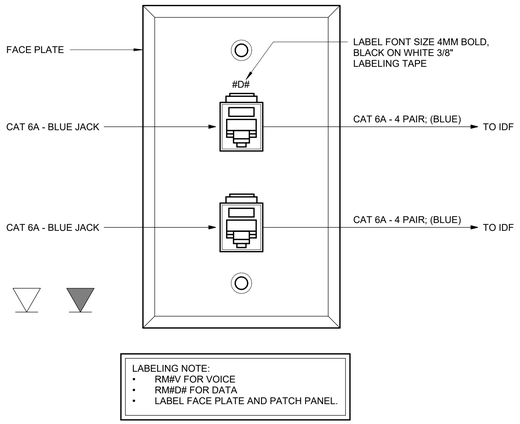
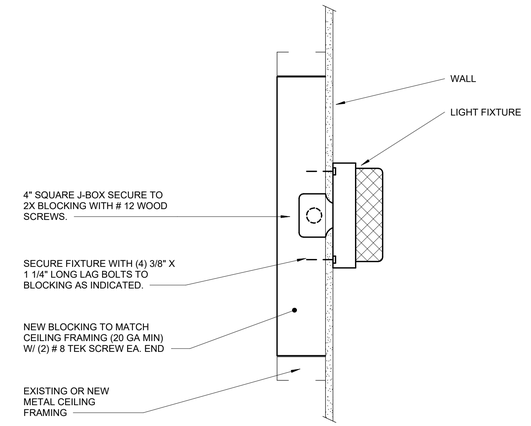
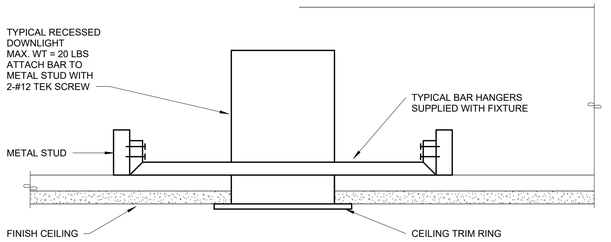


3 DATA/VOICE OUTLET DETAIL
NO SCALE



1 WALL MOUNTED LIGHTING DETAIL
12" = 1'-0"



2 RECESSED DOWNLIGHT AT GYP BOARD CEILING
NO SCALE

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MCSD - 26TH ST.

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SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER:
E402-02

SCOPE OF WORK

1. NEW 2-STORY BUILDING AND STORAGE BUILDING IS BEING INSTALLED. NEW FULLY AUTOMATIC AND ADDRESSABLE SYSTEM IS TO PROVIDED. NEW INITIATING DEVICES (SMOKES, MONITOR MODULES, ETC.) NOTIFICATION DEVICES (SPEAKERS, STROBES, ETC.) AND WIRING TO BE PROVIDED.

TYPE OF SYSTEM

1. CLASS 'B' INITIATING
2. SYSTEM IS A PROTECTED PREMISIS AND REQUIRES 24 HOUR STANDBY.
3. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFC OR INITIATING
4. DEVICES FOR AREA OF WORK SHALL BE AUTOMATIC TYPE AS REQUIRED BY FIRE PROTECTION ACT (SB575) GREEN OAKS FAMILY ACADEMY MIDDLE SCHOOL.
5. BUILDINGS ARE TYPE 'E' OCCUPANCY.
6. SYSTEM DESIGNER: GERALD GONZALES, BELDEN CONSULTING ENGINEERS

APPLICABLE CODES

1. CBC 2022; CEC 2022, CMC 2022
2. TITLE 19 PUBLIC SAFETY - CALIFORNIA STATE FIRE MARSHAL REQUIREMENTS
3. NFPA 72 (NATIONAL FIRE ALARM CODE) 2022 EDITION WITH CALIFORNIA AMENDMENTS

FIRE ALARM SYMBOLS

- WALL MOUNTED JUNCTION OR OUTLET BOX WITH BLANK COVER, FLUSH, HEIGHT AS INDICATED.
- JUNCTION OR OUTLET BOX - MOUNT ABOVE CEILING WITH BLANK COVER. (F= FLUSH IN FINISHED CEILING)
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING SPACE OR WALL.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.
- BRANCH CIRCUIT HOMERUN TO PANEL. (FOR MECHANICAL EQUIPMENT SEE "MECHANICAL EQUIPMENT SCHEDULE")
- FLEXIBLE CONDUIT
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION.
- 1 — GENERAL SHEET NOTES
- MECHANICAL UNIT TAG. SEE MECHANICAL EQUIPMENT SCHEDULE.
- 1 / E0.1 — DETAIL TAG.
- (E) EXISTING TO REMAIN
- (N) NEW
- FACP FIRE ALARM CONTROL PANEL
- RPS REMOTE POWER SUPPLY
- NTS NOT TO SCALE
- WP WEATHERPROOF

FIRE ALARM SYSTEM NOTES

1. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA PROJECT INSPECTOR (PI). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
2. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS. (CEC 110-11 AND 300-6)
3. FIRE ALARM DEVICE MOUNTING HEIGHTS:
   - PULL STATION: 48" TO TOP OF HANDLE ABOVE FINISHED FLOOR. (CEC 380-8C)
   - HORN INTERIOR: MINIMUM 90" TO TOP OF DEVICE ABOVE FINISHED FLOOR, NOT LESS THAN 6" FROM CEILING. (2022 NFPA72-18.4.8.1)
   - WALL MOUNTED STROBE OR HORN/STROBE: MINIMUM 80" TO BOTTOM OF STROBE LENS AND NOT GREATER THAN 96" TO TOP OF STROBE LENS, ABOVE FINISHED FLOOR, NOT LESS THAN 6" FROM CEILING. (2022 NFPA72-18.5.5.1)
4. TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE PERMITTED BY 2022 NFPA72-18.4.3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST 15db ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5db ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FT (1.5M) ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (dBA).
5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
6. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. (2022 NFPA72-18.5.3.1)
7. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE PROJECT INSPECTOR (PI) / DSA AFTER COMPLETION OF OPERATION ACCEPTANCE TESTS. (2022 NFPA 72-14.6.2.4 AND FIGURE 14.6.2.4)
8. ALL CIRCUITS SHALL BE SUPERVISED AGAINST OPENS, SHORTS AND GROUNDS.
9. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
10. MARK ALL WIRES IN ACCORDANCE WITH 760-10.
11. ALL OUTSIDE FIRE ALARM DEVICES SHALL BE CSFM LISTED AS WEATHER PROOF TYPE.
12. EXISTING CAMPUS FIRE ALARM SYSTEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE WITHOUT WRITTEN PERMISSION FROM SCHOOL DISTRICT. 48 HOUR NOTICE SHALL BE PROVIDED TO LOCAL FIRE AUTHORITY PRIOR TO FIRE ALARM SYSTEM SHUTDOWN.
13. ALL FIRE ALARM WIRING SHALL BE CONTINUOUS WITHOUT SPLICES AND TERMINATED IN TERMINAL BLOCKS OF THE DEVICE OR FIRE ALARM APPROVED TERMINAL BLOCKS IN TERMINAL CABINETS OR JUNCTION BOXES.
14. ALL FIRE ALARM WIRING INSTALLED IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.
15. ALL WIRING TO BE RUN IN FIRE ALARM DEDICATED CONDUIT IN EXPOSED AREAS. ALL NEW FA WIRING SHALL BE INSTALLED IN CONDUIT MINIMUM SIZE 3/4" U.O.N. USE EXISTING FIRE ALARM CONDUITS WHERE PRACTICAL TO INSTALL A NEW FA WIRING. FIELD VERIFY EXACT EXISTING CONDUIT ROUTING IN ACCESSIBLE CEILINGS, FIRE POWER LIMITED PLENUM CABLE SUPPORTED BY J-HOOKS AND/OR D-RINGS IS ALLOWED.
16. ALL SHIELDS TO BE CONTINUOUS, DRY AND FREE FROM ALL GROUNDS AND SHORTS.
17. ELECTRICAL/FIRE ALARM CONTRACTOR SHALL VERIFY EXISTING AVAILABLE ADDRESSES ON EXISTING SYSTEM AND CORRECT ON AS-BUILT DRAWINGS FOR SUBMITTAL TO SCHOOL DISTRICT AT END OF PROJECT.
18. THIS CAMPUS HAS AN EXISTING UL LISTED CENTRAL MONITORING STATION: SUPERVISING STATION: AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UUFC OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
19. A DOCUMENTATION CABINET SHALL BE INSTALLED PROXIMAL TO THE FACP PER 2022 NFPA 72, 7.7.2.1.
20. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET PER 2022 NFPA 72, 7.7.2.3.
21. THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED SYSTEM RECORD DOCUMENTS PER NFPA72, 7.7.2.5.
22. NFPA 72 2022 CODE SECTION 14.4.2 REACCEPTANCE TESTING REQUIREMENT. "10 PERCENT OR A MAXIMUM OF 50 DEVICES ALREADY INSTALLED."
23. UPON COMPLETION AND ACCEPTANCE OF THE PROJECT, A REPRODUCIBLE "AS-BUILT" SET OF DRAWINGS OF THE ENTIRE FIRE ALARM SYSTEM OR THE AREAS WORKED UPON SHALL BE PROVIDED TO THE OWNER OR THE OWNER'S REPRESENTATIVE.

ADDRESSABLE DEVICE LABEL

L1-01
- L1 — DEVICE ADDRESS
- 01 — ADDRESSABLE LOOP NUMBER

NOTICATION APPLIANCE LABEL

N1-01 / 15cd
- N1 — POWER SUPPLY NUMBER
- 01 — DEVICE ADDRESS
- 15cd — CANDELA RATING

FIRE ALARM SHEET INDEX

Sheet Number	Sheet Name
FA001-02	GENERAL NOTES, SYMBOLS AND SHEET INDEX
FA101-02	FIRE ALARM SITE PLAN
FA201-02	FIRE ALARM FLOOR PLANS
FA202-02	STORAGE BUILDING FIRE ALARM PLAN
FA301-02	FIRE ALARM RISER DIAGRAM
FA302-02	FIRE ALARM CALCULATIONS
FA401-02	FIRE ALARM DETAILS

FIRE ALARM SYMBOLS EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
'FACP' DACT-E3 ILI-MBE3 PM-9 PS12100 PS12250NB	FIRE ALARM CONTROL PANEL "FACP": GAMEWELL-FCI E3 SERIES W/ AUTOMATIC CHARGING SYSTEM CABINET D (DIMENSION: 41"H X 19 3/8"W X 4 1/2"D) C.S.F.M.#7165-1703:0125 DIGIAL DIALER C.S.F.M. #7165-1703:0125 INTELIGENT LOOP MOTHER BOARD C.S.F.M #7165-1703:0125 POWER SUPPLY C.S.F.M. #7165-1703:0125 POWER SONIC BATTERIES 10AH POWER SONIC BATTERIES 25AH		WALL MOUNTED SPEAKER-STROBE (MULTI CANDELA) HONEYWELL SPSWL SYSTEM SENSOR 7320-1653:0505
			WALL MOUNTED STROBE (MULTI CANDELA) HONEYWELL SWL SYSTEM SENSOR 7125-1653:0504
			WEATHERPROOF SPEAKER HONEYWELL SPWK SYSTEM SENSOR 7320-1653:0201
'FABP'	FIRE ALARM BOOSTER PANEL 'FABP (DIMENCION: 15"H x 14.5"W x 2.75"D): HONEYWELL #HPF24S8 W/ AUTOMATIC CHARGING SYSTEM C.S.F.M. #7135-1637:0102	AM	ADDRESSABLE SUPERVISED INPUT MODULE: GAMEWELL-FCI #AMM-4F C.S.F.M. #7300-1703:0102
AMP	TRANSPONDER VOICE GATEWAY - FIRE ALARM AMPLIFIER GAMEWELL-FCI #IN1-VGX AM 50-70 C.S.F.M. #7165-1703:0125	CR	CONTROL RELAY MODULE: GAMEWELL-FCI #AOM-2RF C.S.F.M. #7300-1703:0102
ANN	FIRE ALARM LCD ANNUNCIATOR: GAMEWELL-FCI #NGA AND CABINET C.S.F.M. #7165-1703:0125	DD	INTELLIGENT PHOTOELECTRIC DUCT SMOKE DETECTOR: GAMEWELL-FCI #DNR/ASD-PL2FR C.S.F.M. #7272-1703:0121
'FA-DOC'	DOCUMENTS CABINET: SPACE AGE ELECTRONICS #SRD ACE-11 C.S.F.M. #7300-0553-0110	RTS	REMOTE TEST STATION: SYSTEM SENSOR #RTS151 C.S.F.M. #7300-1653:0212
F	DOUBLE ACTION MANUAL PULL STATION: GAMEWELL-FCI #MS-7AF C.S.F.M. #7150-1703:0119	SM	SYNCHRONIZATION MODULE WHEELOCK #SM-24-R C.S.F.M.#7300-0785:132
	ADDRESSABLE SMOKE DETECTOR: GAMEWELL-FCI #ASD-PL2F INTELLIGENT BASE GAMEWELL-FCI #210LP C.S.F.M. #7272-1703:0121/BASE C.S.F.M. #7300-1653.0109		END OF LINE RESISTOR: SYSTEM SENSOR #EOLA-1 C.S.F.M. #7300-1653:0103
A	ADDRESSABLE HIGH HEAT DETECTOR (ATTIC) GAMEWELL-FCI #ATD-L3H INTELLIGENT BASE GAMEWELL-FCI #210LP CSFM #7270-1703-0502 / BASE CSFM #7300-1653:0109		
	ADDRESSABLE HEAT DETECTOR GAMEWELL-FCI #ATD-L3R INTELLIGENT BASE GAMEWELL-FCI #210LP CSFM #7270-1703-0502 / BASE CSFM #7300-1653:0109		

FIRE ALARM SYSTEM MATRIX

SYSTEM OUTPUTS

SYSTEM INPUTS		CONTROL UNIT ANNUNCIATOR: A ACTUATE COMMON ALARM SIGNAL INDICATOR	B ACTUATE AUDIBLE ALARM SIGNAL	C ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D ACTUATE AUDIBLE SUPERVISORY SIGNAL	E ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F ACTUATE AUDIBLE TROUBLE SIGNAL	G ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	H ACTUATE EVACUATION SIGNAL	I DISPLAY/PRINT CHANGE OF STATUS	J TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	K TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	L TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	NOTIFICATION: M RECALL ELEVATORS TO PRIMARY RECALL FLOOR	N SHUTDOWN HVAC EQUIPMENT	REQUIRED FIRE SAFETY CONTROL	SUPPLEMENTARY	
1	MANUAL FIRE ALARM BOXES	●	●					●	●	●	●							1
2	SMOKE DETECTOR	●	●					●	●	●	●				●			2
3	IN-DUCT SMOKE DETECTOR	●	●					●	●	●	●					●		3
4	HEAT DETECTORS	●	●					●	●	●	●				●			4
5	WATERFLOW SWITCH	●	●					●	●	●	●				●			5
6	VALVE TAMPER SWITCH			●	●					●		●						6
7	HOOD OR ROOM FIRE SUPPRESSION SYSTEM	●	●					●	●	●	●				●			7
8	AREA OF REFUGE 2-WAY COMM. STATUS			●	●			●				●						8
9	FIRE ALARM SYSTEM AC POWER FAILURE					●	●						●					9
10	FIRE ALARM SYSTEM LOW BATTERY					●	●						●					10
11	OPEN CIRCUIT					●	●						●					11
12	GROUND FAULT					●	●						●					12
13	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●						●					13
14																		24

FIRE ALARM CABLE SCHEDULE

CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
A	1 PR, #16 AWG SOLID UNSHIELDED FPL	CORNING WEST PENN #6990 OR EQUIVALENT	RED	FIRE ALARM	ADDRESSABLE SLC LOOP CABLE-INTERIOR
AS	1 PR, #16 AWG STRANDED UNSHIELDED AQUASEAL FPL	WEST PENN #AQC225	BLACK	FIRE ALARM	SITE ADDRESSABLE SLC LOOP CABLE-EXTERIOR/OUTDOOR
B	1 PR, #14 AWG SOLID SHIELDED, FPLP	WEST PENN #609928	RED	FIRE ALARM	AUDIBLE (SPEAKER) NOTIFICATION APPLIANCE CIRCUIT-INTERIOR
BS	1 PR, #14 AWG SOLID SHIELDED, FPL	WEST PENN #AQC295	BLACK	FIRE ALARM	AUDIBLE (SPEAKER) NOTIFICATION APPLIANCE CIRCUIT-EXTERIOR/OUTDOOR
C	1 PR, #12 SOLID UNSHIELDED FPLP	WEST PENN #60996B	RED	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT-INTERIOR
CS	1 PR, #12 STRANDED UNSHIELDED FPL	WEST PENN #AQ227	BLACK	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT-EXTERIOR/OUTDOOR

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GENERAL NOTES, SYMBOLS AND SHEET INDEX

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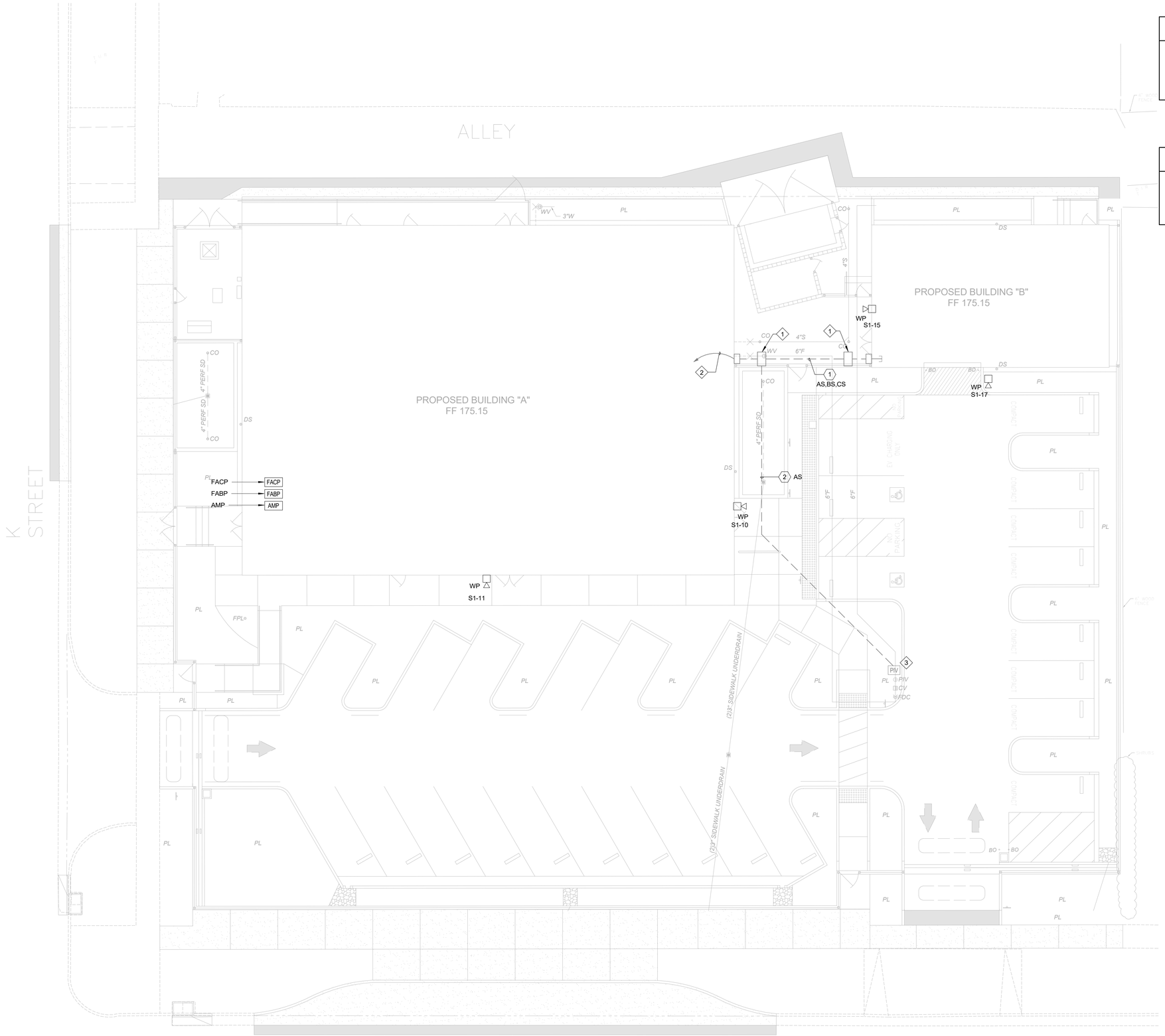

1 FIRE ALARM SITE PLAN
1" = 10'-0"

SHEET NOTES

1. SIGNAL PULLBOX PER INCREMENT 1 DRAWINGS.
2. (1)2"C ROUTED TO FACP. SEE ELETRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. SEE FIRE PROTECTION DRAWING FOR EXACT LOCATION OF PIV.

CONDUIT SCHEDULE

1. (2)2" C.O. FOR SIGNAL PER INCREMENT 1 DRAWINGS. UTILIZE FOR THIS INCREMENT.
2. (1)1" C.O. FOR PIV SWITCH.

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FIRE ALARM SITE PLAN

SHEET NUMBER:
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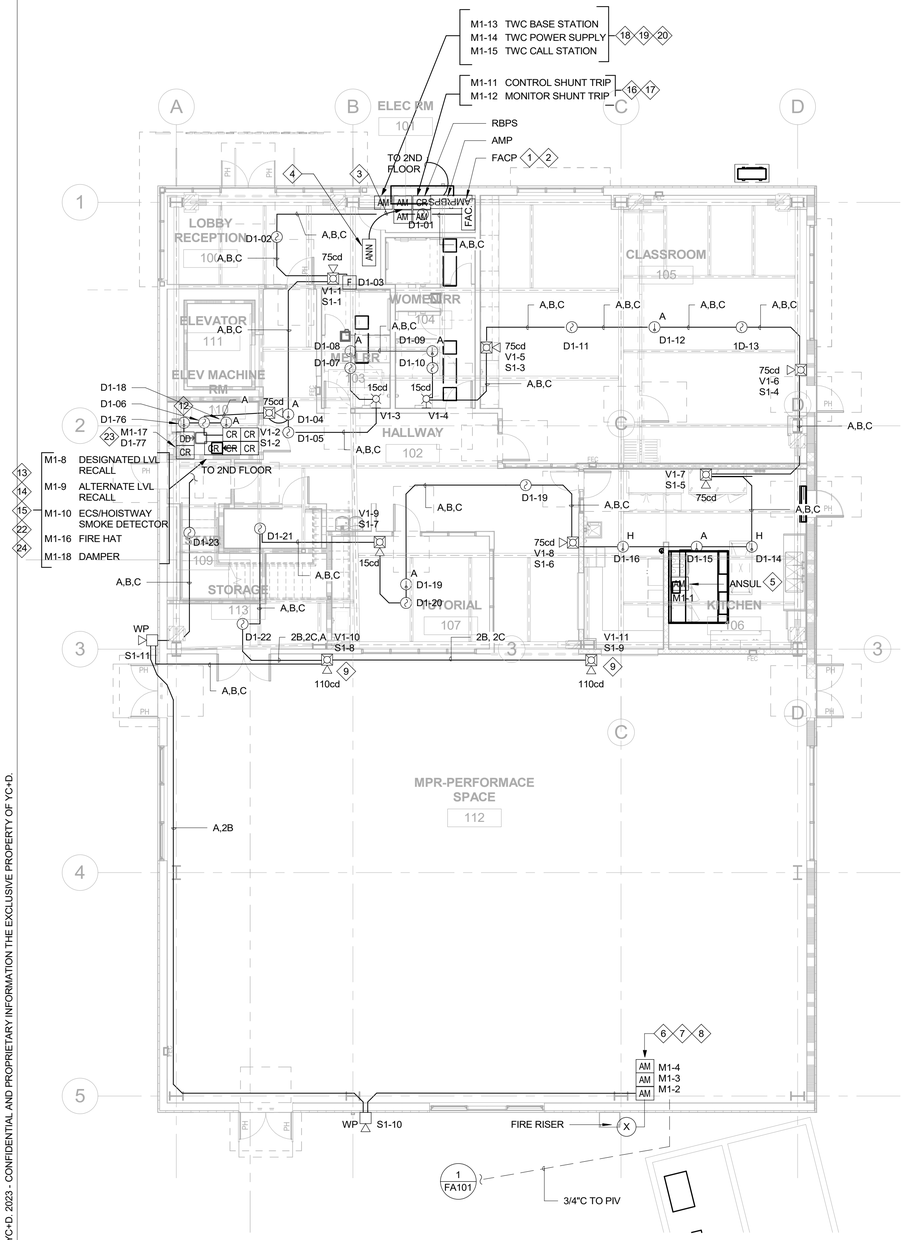
GENERAL NOTES

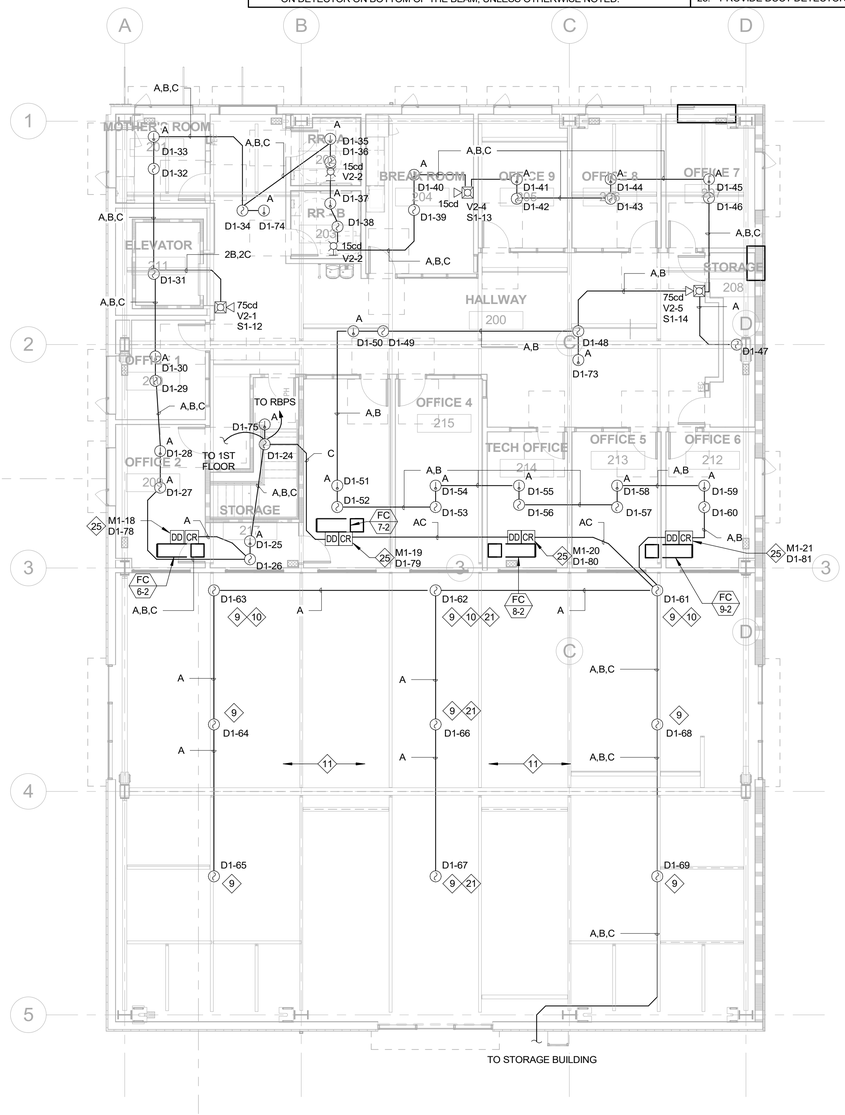
A. FOR SLOPED CEILINGS SMOKE AND HEAT DETECTORS SHALL BE INSTALLED PER NFPA 72 FIGURE A17.6.3.4(a), A17.6.3.4(b) AND 17.6.3.4.

SHEET NOTES

1. INSTALL NEW FIRE ALARM CONTROL PANEL "FACP" GAMEWELL - FCI #E3 SERIES.
2. INSTALL NEW DOCUMENTS CABINET ADJACENT TO FACP.
3. PROVIDE (1) 3/4"C WITH 2#12CU THWN. 1#12CU GND CABLE + (1) TYPE "FA" CABLE TO LCD REMOTE ANNUNCIATOR PER MANUFACTURES REQUIREMENTS.
4. INSTALL LCD REMOTE ANNUNCIATOR POWER AND COMMUNICATION CABLE IN CONDUIT BACK TO FACP PER MANUFACTURES REQUIREMENTS. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS "11B-305 AND 11B-308."
5. PROVIDE ADDRESSABLE SUPERVISED INPUT MODULE AND CONNECT TO ANSUL FIRE SUPPRESSION CONTROL PANEL FOR MONITORING BY FACP.
6. PROVIDE ADDRESSABLE SUPERVISED INPUT MODULE AND CONNECT TO CONTROL VALVE SWITCH FOR MONITORING BY FACP.
7. PROVIDE ADDRESSABLE SUPERVISED INPUT MODULE AND CONNECT TO FLOW SWITCH FOR MONITORING BY FACP.
8. PROVIDE ADDRESSABLE SUPERVISED INPUT MODULE AND CONNECT TO PIV FOR MONITORING BY FACP.
9. PROVIDE PROTECTIVE WIRE CAGE FOR INITIATING AND NOTIFICATION DEVICES INSTALLED IN MPR SPACE.
10. FOR SLOPED CEILINGS SMOKE AND HEAT DETECTORS SHALL BE INSTALLED PER NFPA 72 FIGURE A17.6.3.4(a), A17.6.3.4(b) AND 17.6.3.4.
11. BEAM DEPTHS ARE LESS THAN 10% OF CEILING HEIGHT AND MPR SPACE SHALL USE SMOOTH CEILING SPACING FOR SMOKE DETECTORS NFPA 72 17.7.4.2.4.6. INSTALL ON DETECTOR ON BOTTOM OF THE BEAM, UNLESS OTHERWISE NOTED.
12. LOCATE HEAT DETECTOR WITHIN 2' FIRE SPRINKLER HEAD.
13. PROVIDE ADDRESSABLE CONTROL RELAY MODULE FOR ELEVATOR DESIGNATED LEVEL RECALL.
14. PROVIDE ADDRESSABLE CONTROL RELAY MODULE FOR ELEVATOR ALTERNATE LEVEL RECALL.
15. PROVIDE ADDRESSABLE CONTROL RELAY MODULE FOR ELEVATOR CONTROL ROOM / HOISTWAY SMOKE DETECTOR RECALL.
16. PROVIDE ADDRESSABLE CONTROL RELAY MODULE FOR ELEVATOR SHUNT TRIP.
17. PROVIDE ADDRESSIBLE SUPERVISED INPUT MODULE FOR ELEVATOR SHUNT TRIP MONITORING.
18. PROVIDE ADDRESSIBLE SUPERVISED INPUT MODULE FOR TWO WAY COMMUNICATION SYSTEM COMMAND BASE STATION.
19. PROVIDE ADDRESSABLE SUPERVISED INPUT MODULE FOR TWO WAY COMMUNICATION SYSTEM POWER SUPPLY.
20. PROVIDE ADDRESSABLE SUPERVISED INPUT MODULE FOR CALL STATION.
21. PLACE SMOKE DETECTOR IN BEAM POCKET
22. PROVIDE ADDRESSABLE CONTROL RELAY MODULE FOR ELEVATOR FIRE HAT.
23. PROVIDE DUCT DETECTOR AND CONTROL RELAY FOR ELEVATOR MACHINE ROOM FAN.
24. PROVIDE ADDRESSABLE CONTROL RELAY MODULE FOR MOTORIZED DAMPER.
25. PROVIDE DUCT DETECTOR AND CONTROL RELAY MODULE FOR FC SHUTDOWN.



1 FIRST LEVEL FIRE ALARM PLAN
1/8" = 1'-0"



2 SECOND LEVEL FIRE ALARM PLAN
1/8" = 1'-0"

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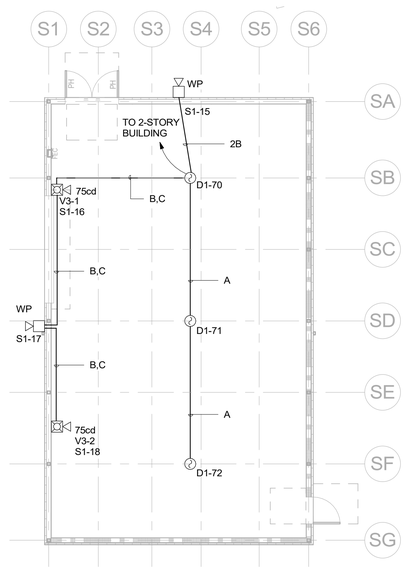
FIRE ALARM FLOOR PLANS

SHEET NUMBER:
FA201-02



1 STORAGE BUILDING FIRE ALARM PLAN
1/8" = 1'-0"

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SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

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E16961
Exp: 6/30/27
ELECTRICAL
STATE OF CALIFORNIA

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

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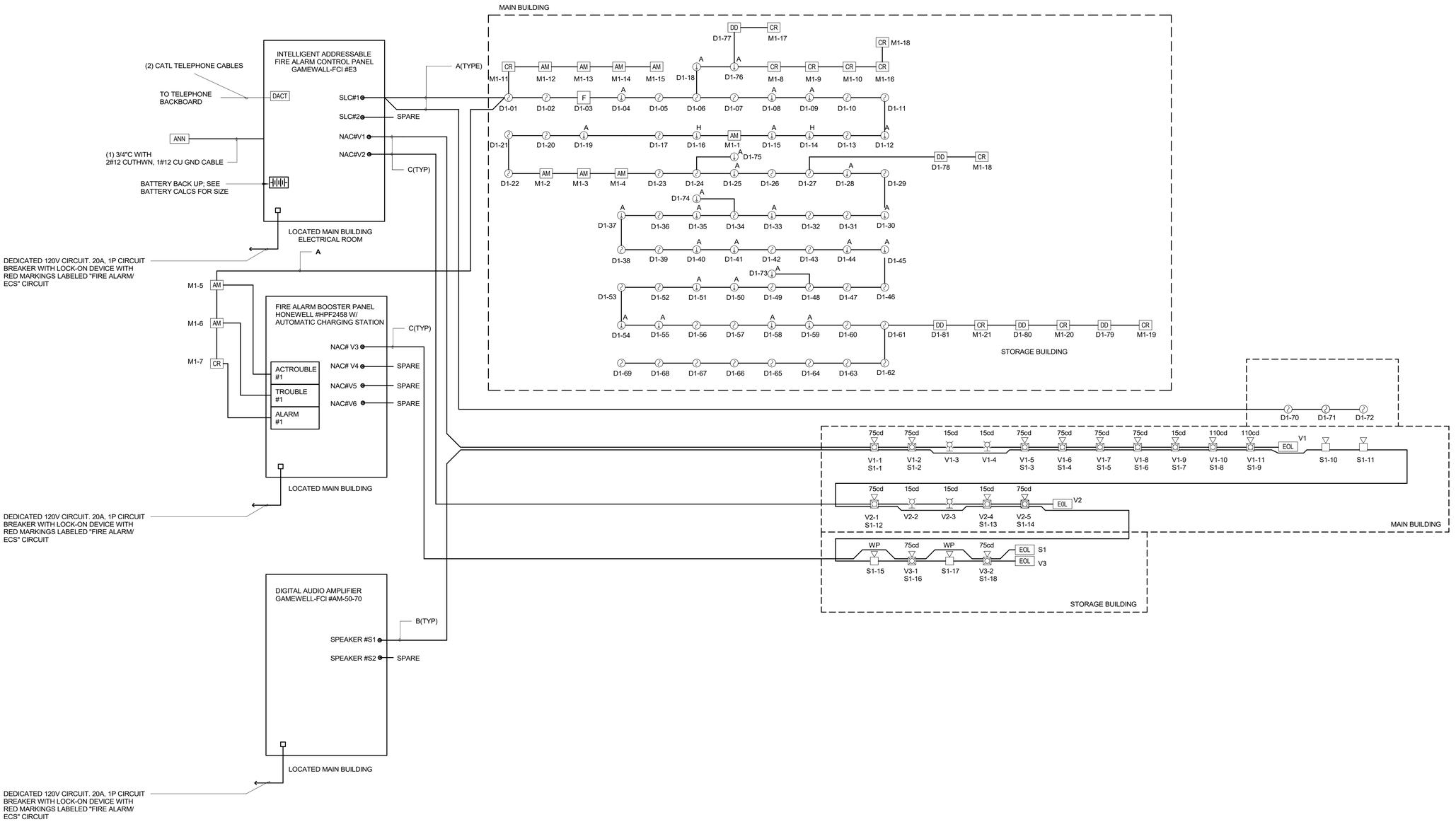
SHEET TITLE
STORAGE BUILDING FIRE ALARM PLAN

SHEET NUMBER:
FA202-02



1 FIRE ALARM RISER DIAGRAM
12" = 1'-0"

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SHEET TITLE
FIRE ALARM RISER DIAGRAM

SHEET NUMBER:
FA301-02

VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: MERCED
SIGNAL CIRCUIT #: V1

DEVICE #	1	2	3	4	5	6	7	8	9	10
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	56	40	33	25	33	57	45	45	65	60
AMPS OF DEVICE	0.107	0.107	0.0430	0.0430	0.107	0.107	0.107	0.107	0.043	0.148
TOTAL AMPS@DEV.	1.067	0.96	0.853	0.81	0.767	0.66	0.553	0.446	0.339	0.296
VOLT. DROP @ DEV.	0.19764...	0.12701...	0.09311...	0.06698...	0.08372...	0.12443...	0.08231...	0.06638...	0.07288...	0.05874...

DEVICE #	11	12	13	14	15	16	17	18	19	20
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	50	0	0	0	0	0	0	0	0	0
AMPS OF DEVICE	0.148	0	0	0	0	0	0	0	0	0
TOTAL AMPS@DEV.	0.148	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0.02447...	0	0	0	0	0	0	0	0	0

TOTAL CKT. AMPS 1.067 AMPS

TOTAL CKT V DRO... 0.997... VDC

CKT VOLTAGE = 20.4

% VOLTAGE DROP= 4.9%

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.24	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020

** FORMULA **
I * FEET * 21.6
-
C.M.

VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: MERCED
SIGNAL CIRCUIT #: V2

DEVICE #	1	2	3	4	5	6	7	8	9	10
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	150	85	30	50	70	0	0	0	0	0
AMPS OF DEVICE	0.107	0.043	0.043	0.043	0.107	0	0	0	0	0
TOTAL AMPS@DEV.	0.343	0.236	0.193	0.15	0.107	0	0	0	0	0
VOLT. DROP @ DEV.	0.17018...	0.06635...	0.01915...	0.02480...	0.02477...	0	0	0	0	0

DEVICE #	11	12	13	14	15	16	17	18	19	20
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS OF DEVICE	0	0	0	0	0	0	0	0	0	0
TOTAL AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0

TOTAL CKT. AMPS 0.376 AMPS

TOTAL CKT V DRO... 0.305... VDC

CKT VOLTAGE = 20.4

% VOLTAGE DROP= 1.5%

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.24	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020

** FORMULA **
I * FEET * 21.6
-
C.M.

VOLTAGE DROP (VD) CALCULATION

VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: MERCED
SIGNAL CIRCUIT #: V3

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	200	50	0	0	0	0	0	0	0	0
AMPS OF DEVICE	0.107	0.107	0	0	0	0	0	0	0	0
TOTAL AMPS@DEV.	0.214	0.107	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0.14157...	0.01769...	0	0	0	0	0	0	0	0

DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS OF DEVICE	0	0	0	0	0	0	0	0	0	0
TOTAL AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0

TOTAL CKT. AMPS 0.214 AMPS

TOTAL CKT V DRO... 0.159... VDC

CKT VOLTAGE = 20.4

% VOLTAGE DROP= 0.8%

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.24	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020

** FORMULA **
I * FEET * 21.6
-
C.M.

VOLTAGE DROP (VD) CALCULATION

PROJECT NAME: MERCED
SIGNAL CIRCUIT #: S1

DEVICE #	1	2	3	4	5	6	7	8	9	10
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	56	40	55	57	50	55	65	70	50	165
AMPS OF DEVICE	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0071	0.0283
TOTAL AMPS@DEV.	0.2409	0.2338	0.2267	0.2196	0.2125	0.2054	0.1983	0.1912	0.1841	0.177
VOLT. DROP @ DEV.	0.04462...	0.03093...	0.04124...	0.04140...	0.03514...	0.03736...	0.04263...	0.04427...	0.03044...	0.09660...

DEVICE #	11	12	13	14	15	16	17	18	19	20
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	110	100	130	70	130	50	45	45	50	0
AMPS OF DEVICE	0.0283	0.0071	0.0071	0.0071	0.0283	0.0071	0.0283	0.0071	0.0283	0
TOTAL AMPS@DEV.	0.1487	0.1204	0.1133	0.1062	0.0991	0.0708	0.0637	0.0354	0.0283	0
VOLT. DROP @ DEV.	0.05410...	0.03982...	0.04872...	0.02459...	0.04261...	0.01170...	0.00948...	0.00526...	0.00468...	0

TOTAL CKT. AMPS 0.2409 AMPS

TOTAL CKT V DRO... 0.685... VDC

CKT VOLTAGE = 20.4

% VOLTAGE DROP= 3.4%

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
10	1.24	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020

** FORMULA **
I * FEET * 21.6
-
C.M.

FIRE ALARM CONTROL PANEL BATTERY CALCULATIONS (GAMEWELL-FCI #E3)

NEW MODULES

QTY	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	LOOP INTERFACE MAIN BOARD #ILI-MB-E3	0.081000	0.0810	0.150000	0.1500
1	LOOP INTERFACE SUPPLEMENT BOARD #ILI-S-E3	0.081000	0.0810	0.150000	0.1500
1	POWER SUPPLY #PM9	0.050000	0.0500	0.050000	0.0500
1	LCD DISPLAY AND SWITCH CONTROL #LCD-E3	0.024000	0.0240	0.028000	0.0280
1	DIGITAL COMMUNICATOR #DACT-E3	0.018000	0.0180	0.018000	0.0180
5	AUXILLIARY SWITCH ASSEMBLY #ASM-16	0.011000	0.0550	0.011000	0.0550
5	LED DRIVE MODULE #ANU-48	0.011000	0.0550	0.011000	0.0550
1	NODE EXPANDER #ANX	0.065000	0.0650	0.065000	0.0650
1	NETWORK COMMAND CENTER #INI-VGC	0.150000	0.1500	0.150000	0.1500
1	NETWORK VOICE GATEWAY #INI-VGX	0.150000	0.1500	0.050000	0.0500
1	VOICE PAGING MICROPHONE #MICROPHONE	0.020000	0.0200	0.020000	0.0200
1	CELL BACKUP COMMUNICATOR #SLE-LTEV-CFB-PS	0.085000	0.0850	0.085000	0.0850
	MODULE STANDBY CURRENT		0.834000		
	MODULE ALARM CURRENT				0.876000

NEW FIELD DEVICES

QTY	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
46	ADDRESSABLE SMOKE DETECTOR #ASD-PL2F	0.0004	0.0166	0.0065	0.2990
27	ADDRESSABLE HIGH HEAT DETECTOR #ATD-L3H	0.0002	0.0054	0.0045	0.1215
1	ADDRESSABLE DOUBLE ACTION PULL STATION	0.0003	0.0003	0.0070	0.0070
10	ADDRESSABLE MONITOR MODULE #AMM-4F	0.0006	0.0060	0.0050	0.0500
12	ADDRESSABLE CONTROL MODULE #AOM-2SF	0.0004	0.0045	0.0065	0.0780
5	ADDRESSABLE DUCT DETECTOR	0.0002	0.0010	0.0045	0.0225
4	WALL STROBE 15CD #SWL	0.0000	0.0000	0.0430	0.1720
2	WALL SPEAKER-STROBE 15CD #SPSWL	0.0000	0.0000	0.0430	0.0860
8	WALL SPEAKER-STROBE 75CD #SPSWL	0.0000	0.0000	0.1070	0.8560
2	WALL SPEAKER-STROBE 110CD #SPSWL	0.0000	0.0000	0.1480	0.2960
2	WALL EXTERIOR SPEAKER #SPWK	0.0000	0.0000	0.0000	0.0000
	NEW STANDBY CURRENT		0.033760		
	NEW ALARM CURRENT				1.988000

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
NEW MODULES	0.834000	0.876000
NEW FIELD DEVICES	0.033760	1.988000
TOTAL STANDBY CURRENT	0.867760	
X 24 HOUR STANDBY	20.826240	
TOTAL ALARM CURRENT		2.864000
15 MINUTES OF ALARM (X .25)		0.716000
TOTAL BATTERY REQUIREMENT		21.542240
TOTAL BATTERY WITH 25% SAFETY MARGIN		26.9278
NEW BATTERY SUPPLIED		(2) 35AH

NEW DIGITAL AUDIO AMPLIFIER (GAMEWELL-FCI #AM-50-70)

PANEL MODULES

QTY	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	50 WATT AMPLIFIER	0.1100	0.1100	0.5810	0.5810
	PANEL STANDBY CURRENT		0.1100		
	PANEL ALARM CURRENT				0.5810

FIEL...

QTY	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
4	WALL STROBE 15CD (1/2 WATT)	0.0000	0.0000	0.0071	0.0284
2	WALL SPEAKER-STROBE 15CD (1/2 WATT)	0.0000	0.0000	0.0071	0.0142
10	WALL SPEAKER-STROBE 75CD (1/2 WATT)	0.0000	0.0000	0.0071	0.0710
2	WALL SPEAKER-STROBE 110CD (1/2 WATT)	0.0000	0.0000	0.0071	0.0142
5	WALL EXTERIOR SPEAKER (2 WATT)	0.0000	0.0000	0.0283	0.1415
	DEVICE STANDBY CURRENT		0.0000		
	DEVICE ALARM CURRENT				0.2693

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.1100	0.5810
FIELD DEVICES	0.0000	0.2693
TOTAL STANDBY CURRENT	0.1100	
X 24 HOUR STANDBY	2.6400	
TOTAL ALARM CURRENT		0.8503
15 MINUTES OF ALARM (X .25)		0.2126
TOTAL BATTERY REQUIREMENT		2.8526
TOTAL BAT. WITH 25% SAFETY MARGIN		3.5657
NEW BATTERY SUPPLIED		(2) 7AH

NEW REMOTE POWER SUPPLY (GAMEWELL-FCI HPF24S)

PANEL MODULES

QTY	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	REMOTE POWER SUPPLY #HPF2S	0.0910	0.0910	0.1450	0.1450
	PANEL STANDBY CURRENT		0.0910		
	PANEL ALARM CURRENT				0.1450

FIEL...

QTY	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
2	WALL SPEAKER-STROBE 75CD #SPSWL	0.0000	0.0000	0.1070	0.2140
3	WALL EXTERIOR SPEAKER #SPWK	0.0000	0.0000	0.1480	0.4440
	DEVICE STANDBY CURRENT		0.0000		
	DEVICE ALARM CURRENT				0.6580

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.0910	0.1450
FIELD DEVICES	0.0000	0.6580
TOTAL STANDBY CURRENT	0.0910	
X 24 HOUR STANDBY	2.1840	
TOTAL ALARM CURRENT		0.8030
15 MINUTES OF ALARM (X .25)		0.2008
TOTAL BATTERY REQUIREMENT		2.3848
TOTAL BAT. WITH 25% SAFETY MARGIN		2.9809
NEW BATTERY SUPPLIED		(2) 7AH

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DSA SUBMITTAL

SHEET TITLE

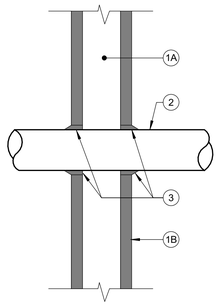
FIRE ALARM CALCULATIONS

SHEET NUMBER:

FA302-02

SYSTEM NO. WL1001
(FORMERLY SYSTEM NO. 147)

F RATING - 1, 2, 3 OR 4 HOUR (SEE ITEMS 2 & 3)
T RATING - 0, 1, 2, 3 & 4 HOUR (SEE ITEM 3)
L RATING AT AMBIENT -- LESS THAN 1 CFM/SQ FT
L RATING AT 400°F -- LESS THAN 1 CFM/SQ FT



1. WALL ASSEMBLY -- THE 1, 2, 3, OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 LF U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS -- STEEL STUDS TO MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
   B. WALLBOARD, GYPSUM -- NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
2. PIPE OR CONDUIT -- NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL -- CAULK -- CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

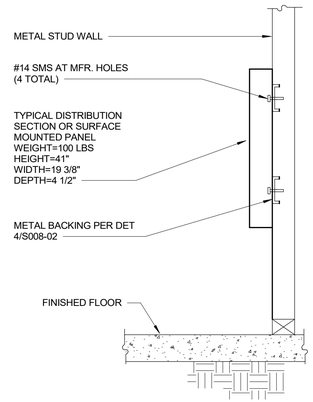
MAX PIPE OR CONDUIT DIAM. IN.	ANNULAR SPACE IN.	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	0 TO 3/16	3 OR 4	3OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1OR 2	0

3 FIRE STOP CONDUIT WALL PENETRATION
NO SCALE

FROM FIRE ALARM PANEL OR PREVIOUS INITIATION DEVICE

TO NEXT INITIATION DEVICE OR END-OF-LINE RESISTOR

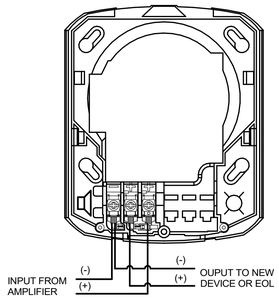
1 TYPICAL DETECTOR WIRING DIAGRAM (FIRE ALARM)
NO SCALE



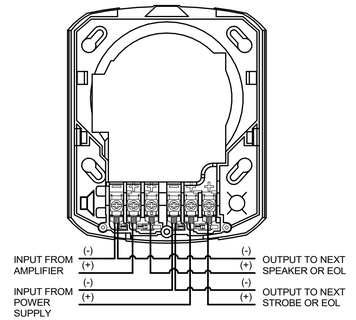
SURFACED MOUNTED PANEL

4 FACP EQUIPMENT ANCHORAGE METAL DETAIL
12" = 1'-0"

SEISMIC CERTIFICATE NO. VMA-45894-02C



TYPICAL STROBE WIRING DIAGRAM



TYPICAL SPEAKER STROBE WIRING DIAGRAM

2 TYPICAL STROBE AND SPEAKER/STROBE WIRING DIAGRAM (FIRE ALARM)
NO SCALE

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DIV. OF THE STATE ARCHITECT
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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
FIRE ALARM DETAILS

SHEET NUMBER:
FA401-02

LIST OF GOVERNING CODES

2025 BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24, C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

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

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECTION 4-335.
4. SPECIAL INSPECTION PER SECTION 4-333(c)
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.

SEISMIC BRACING:

SPECTRAL RESPONSE:
LATITUDE: 37.3098654° W
LONGITUDE: 120.476674° N
Ss = 0.554 (2016 ASCE 7 STANDARD)
SEE DESIGN CRITERIA ON STRUCTURAL DRAWING

SEISMIC COEFFICIENT:
DEFAULT Cp = 0.37 (2022 NFPA 13-TABLE 18.5.9.3)

USE Cp = 0.37
SEE DRAWING FP601 FOR SPECIFIC SEISMIC BRACING DETAILS AND FP602 FOR CALCULATIONS.

FIRE FLOW CALCULATIONS:

CODE REQUIREMENTS SITE FLOW:
CONSTRUCTION TYPE: II-B(WITH AUTOMATIC SPRINKLER SYSTEM)
FIRE FLOW CALCULATION AREA: 11,775 SF
2022 CFC FIRE FLOW(TABLE BB105.1) 2,250 GPM
2022 CFC MINIMUM FIRE FLOW: 1,500 GPM

AVAILABLE WATER SUPPLY:
MERCED FIRE DEPARTMENT PREVENTION BUREAU
OCTOBER 30, 2025
STATIC PRESSURE: 48 PSI, SEE FP101-02 FOR LOCATION
RESIDUAL PRESSURE: 32 PSI
OBSERVED FLOW: 1719 GPM
AVAILABLE FLOW: 2216 GPM @ 20 PSI RESIDUAL

UNDERGROUND FIRE SERVICE GENERAL NOTES:

NFPA 24 (2019) SEC. 10.4.1.1 ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION-RETARDING MATERIAL AFTER INSTALLATION. ALL METALLIC PIPE FITTINGS SHALL BE PROTECTED FROM CORROSIVE SOIL IN ACCORDANCE WITH SPECIFICATION 21 10 00.

NFPA 24 (2019) SEC. 10.6.2.5 AFTER INSTALLATION RODS, NUTS, BOLTS, WASHER, CLAMPS, AND OTHER RESTRAINING DEVICE, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIALS

NFPA 24 (2019) SEC. 10.6.1.2 THRUST BLOCKS SHALL BE OF A CONCRETE MIX NOT LEANER THAN ON PART CEMENT, TWO AND ONE-HALF PARTS SAND, AND FIVE PARTS STONE WITH A MINIMUM COMPRESSIVE STRENGTH (Fc) OF 2500 PSI. THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED AND SHALL BE OF SUCH BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THRUST TO BE ENCOUNTERED IN GENERAL, THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.

NFPA 24 (2019) SEC. 10.10.2.1 UNDERGROUND MAINS SHALL BE COMPLETELY FLUSHED TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION PER TABLE 10.10.2.1.3 TO PRODUCE A VELOCITY OF 10 FEET PER SECOND IN PIPES. LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING SO THEY MAY OBSERVE TESTING.

NFPA 24 (2019) SEC 10.10.2.2.1 ALL NEW PRIVATE UNDERGROUND FIRE SERVICE MAINS SHALL BE TESTED HYDROSTATICALLY AT NO LESS THAN 200-PSI PRESSURE FOR A MINIMUM OF TWO HOUR. LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING AND SHALL OBSERVE AND/OR ASSIST IOR WHENEVER POSSIBLE

THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURE AT THE SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED TWO QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVEGROUND PIPING. (ALSO SEE SEC. 10.10.2.6 FOR ALLOWABLE LEAKAGE)

HYDROSTATIC TESTS SHALL BE MADE BEFORE THE JOINTS ARE COVERED SO THAT ANY LEAKS MAY BE READILY DETECTED.

NFPA 24 (2019) SEC 10.10 BEFORE ASKING FINAL APPROVAL OF AN INSTALLATION BY THE INSPECTOR OF RECORD, THE INSTALLING COMPANY SHALL FURNISH A CONTRACTORS MATERIAL AND TEST CERTIFICATE TO BE SUBMITTED TO THE OWNER. A TYPICAL CERTIFICATE IS SHOWN IN FIGURE 10.10.1. THIS FORM SHALL BE GIVEN TO THE APPROVING AUTHORITY, OWNER, AND CONTRACTOR.

NFPA 24 (2019)SEC 10.4.2.2 THE DEPTH OF COVER OVER WATER PIPES SHALL BE NOT LESS THAN 2'-6" TO PREVENT MECHANICAL DAMAGE AD SHALL BE BURIED A MINIMUM OF 3'-0" UNDER DRIVEWAYS.

THE METHOD USED FOR UNDERGROUND FIRE LINES WHEN ENTERING BUILDING UNDER CONCRETE. NFPA 24(2019) SEC, 12.2.6, NFPA (2022) 18.4.2 REQUIRES A CLEARANCE BY A PIPE SLEEVE WITH A NOMINAL DIAMETER 4 IN. LARGER THAN THE NOMINAL DIAMETER OF THE SUPPLY PIPING 4 IN. NOMINAL AND LARGER. (I.E FIRE LINES NOMINAL 6IN, REQUIRES 10 IN. SLEEVE)

CPC SEC. 604.1 (2022) PVC PIPING MAY BE INSTALLED TO 5 FEET OUTSIDE THE FOUNDATION OF ANY BUILDING OR STRUCTURE OR PARTS THEROF. IT SHALL BE BURIED IN THE GROUND FOR IS ENTIRE LENGTH. IS SHALL NOT BE INSTALLED WITHIN OR UNDER ANY BUILDING OR STRUCTURE. (DUCTILE PIPE SHALL BE INSTALLED WITHIN 5 FEET OF BUILDING)

OVERHEAD FIRE SPRINKLER SYSTEM GENERAL NOTES:

NFPA 13 (2022) SEC, 17.4.1.3.3.4 WHERE FLEXIBLE SPRINKLER HOSE FITTINGS ARE USED TO CONNECT SPRINKLER TO BRANCH LINES IN SUSPENDED CEILINGS, A LABEL LIMITING RELOCATION OF THE SPRINKLER SHALL BE PROVIDED ON THE ANCHORING COMPONENT.

NFPA 13 (2022) SEC. 6.10.2.1 UNDERGROUND MAINS AND LEAD-IN CONNECTION MADE TO OVERHEAD SPRINKLER PIPING SYSTEMS SHALL BE COMPLETELY FLUSHED

NFPA 13(2022) SEC. 6.10.2.2 ALL INTERIOR PIPING AND APPURTENANCES SUBJECT TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. LOCAL FIRE DEPARTMENT SHOULD BE NOTIFIED OF DATE AND TESTING SO THEY MAY OBSERVE TESTING.

NFPA 13 (2022) SEC 6.2.9 PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAT A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS IN EACH PROTECTED BUILDING FOR SYSTEMS LESS THAN 300 SPRINKLERS AND FEWER THAN 12 FOR SYSTEMS HAVING 300 TO 1000 SPRINKLERS.

NFPA 13 (2022) SEC, 18.6.1 PROVIDE RESTRAINT OF BRANCH LINES BY USING ONE OF THE FOLLOWING:
(1) LISTED SWAY BRACE ASSEMBLY
(2) WRAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF 18.5.5.11
(3) NO. 12 440 LB (200 KG) WIRE INSTALLED AT LEAST 45 DEGREES FROM THE VERTICAL PLANE AND ANCHORAGE ON BOTH SIDES OF THE PIPE.
(4) CPVC HANGERS LISTED TO PROVIDE RESTRAINT
(5) HANGER NOT LESS THAN 45 DEGREES FROM VERTICAL INSTALLED WITHIN 6 IN. OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L/R DOES NOT EXCEED, WHERE THE ROD EXTENDS TO THE PIPE OR A SURGE CLOP HAS BEEN INSTALLED.

NFPA 72 (2022) SEC, 17.12.2 SPRINKLER FLOW SWITCH SHALL BE TESTED BY IOR TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND IN NOT MORE THAN 90 SECONDS.

NFPA 13 (2022) SEC. 7.7.2 FLOW SWITCH SHALL BE CONNECTED TO AN OUTSIDE ALARM BELL FOR EACH RISER. APPROVED IDENTIFICATION SIGN SHALL BE PROVIDED FOR OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM WHEN BELL RINGS CALL 911/FIRE DEPARTMENT.

THE PLANS SHALL INCLUDE THE INFORMATION ON THE HYDRAULIC DESIGN INFORMATION SIGN, IN COMPLIANCE WITH 2022 NFPA 13 SECTIONS 29.4.1 AND 29.4.3 AS AMENDED BY CBC CHAPTER 35.

NFPA 13 (2022) SEC. 29.1 SPRINKLER CONTRACTOR (C16) SHALL COMPLETE AND SIGH CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD SPRINKLER SYSTEM USING FORM IN FIGURE A.29.1 THIS COMPLETED FORM SHALL BE GIVEN TO THE APPROVING AUTHORITY, OWNER AND CONTRACTOR.

NFPA 13 (2022) SEC. 29.2.3.4.1 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPENED UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S TEST CERTIFICATE.

TITLE 19 ARTICLE (A) A LABEL OF SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR THE FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE OF INSTALLATION WAS PREFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.

THE SPRINKLER CONTRACTOR SHALL HAVE A REPRESENTATIVE PRESENT AT THE ROUGH-IN/HYDRO INSPECTION.

NFPA 13 (2022) SEC. 18.4.2 WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS, OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAN THE DIAMETER OF THE HOLE IS NOMINALLY 2' LARGER THAN THE PIPE 1" NOMINAL TO 3½" NOMINAL AND 4" LARGER THAN PIPE FOR PIPE 4" NOMINAL AND LARGER.

DSA GENERAL NOTES

1. THE INTENT OF THE CONTRACT DOCUMENTS IS NEW CLASROOMS ON THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. ALL HANGERS AND SEISMIC SWAY BRACING SHALL BE DESIGNED AND INSTALLED PER NFPA 13 AND CHAPTER 16A CALIFORNIA BUILDING CODE
3. ALL ANCHORAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS ON THE DSA APPROVED DRAWINGS
4. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
5. DEVIATION FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE DIVISION OF STAT ARCHITECT.

FIRE DEPARTMENT CONNECTIONS:

NFPA 13(2022) SEC. 16.12.6.1 CHECK-VALVE SHALL BE PROVIDED AT FIRE DEPARTMENT CONNECTION ASSEMBLY (FDC) TO PREVENT WATER (PRESSURE) AT INLET OF FDC INLET

TITLE 19 ARTICLE 906 (A) A LABEL OF THE SELF- ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEMS WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED ND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.

SYMBOL LEGEND

SYMBOL	ABBRV.	IDENTIFICATION
F	F	FIRE WATER
SPKR	SPKR	SPRINKLER
		PENDENT ON 401 EXTENSION
		RECESSED PENDENT
		UPRIGHT W/ 1" OUTLET BELOW
		UPRIGHT ON 1" SPRIG UP
		UPRIGHT ON BRANCH LINE
		UPRIGHT OVER PENDENT
		SIDEWALL
		GROOVED COUPLING
SB X		EQ BRACE LOCATION
		4WAY EQ BRACE LOCATION
		HANGER LOCATION
		BRANCH LINE RESTRAINT
X		HYDRAULIC CALCULATION NODE
	CHVA	CHECK VALVE
		GATE VALVE

SYMBOL	ABBRV.	IDENTIFICATION
	T&PRV	TEMP & PRESS RELIEF VALVE
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
		UNION
P		PRESSURE GAUGE
	FC	FLEXIBLE CONNECTION
	RPBP	REDUCE PRESS BACKFLOW PREVENTER
	FH	FIRE HYDRANT
P	PIV	POST INDICATING VALVE
	FDC	FIRE DEPARTMENT CONNECTION
AD	AD	ACCESS DOOR
		BACK OF ELBOW
Ø	DIA	DIAMETER
	P.O.C.	POINT OF CONNECTION
℄		CENTERLINE

ABBREVIATIONS

&	AND
°F	DEGREES FAHRENHEIT
AC	AIR CONDITIONER
AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AL	ACOUSTICALLY LINED
AMP	AMPERE
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	COMBUSTION AIR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	CEILING
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUED, CONTINUATION
COOL	COOLING
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DF	DRINKING FOUNTAIN
D/L	DOOR LOUVER
DN	DOWN
DWGS	DRAWINGS
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FEET	PER MINUTE FPM
FS	FLOOR SINK
FT	FEET
FT HD	FEET HEAD
FPM	FEET PER MINUTE
FTR	FLUE THRU ROOF
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCP	MECHANICAL CONTROL PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
P/T	PRESSURE/TEMPERATURE
QTY	QUANTITY
RA	RETURN AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
SA	SUPPLY AIR
SC	SENSIBLE COOLING
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
STRUCT	STRUCTURAL
TC	TOTAL COOLING
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLT
VTR	VENT THROUGH ROOF
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WH	WATER HEATER
WT	WEIGHT

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Industrial Refrigeration
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REGISTERED PROFESSIONAL ENGINEER STEVEN E. RAWSON MECHANICAL EXP: JUNE 30, 2026 STATE OF CALIFORNIA

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PROJECT:
MARS/ELOP FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
SYMBOL LEGENDS, ABBREVIATIONS, NOTES - FIRE PROTECTION

SHEET NUMBER:
FP001-02

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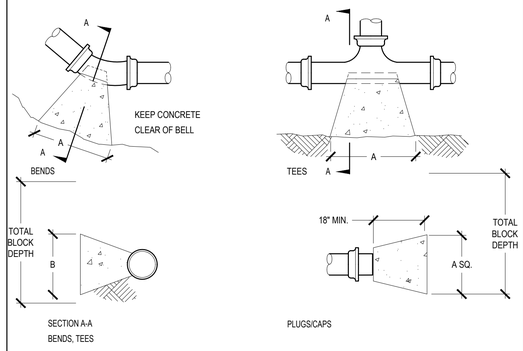


SOIL BEARING CAPACITY 2000 PSF FOR CLAYEY SAND SOILS TYPE ACCORDANCE WITH NFPA 13: TABLE A.6.6.1(c). SEE GEOTECHICAL REPORT FOR DESCRIPTION OF SOIL CONDITIONS.

THRUST BLOCK CALCULATIONS PER NFPA 13: A.6.6.1(b)
6"-90 BEND AREA = (7.9 S.F.)(225 PSI/100PSI)(1000 PSF/2000PSF) = 8.9 S.F.
6"-45 BEND AREA = 8.9 S.F. x 0.541 = 4.8 S.F.
6"-22.5 BEND AREA = 8.9 S.F. x 0.275 = 2.5 S.F.
6"-DEAD END AREA = (5.6 S.F.)(225 PSI/100 PSI)(1000 PSF/2000PSF) = 6.3 S.F.

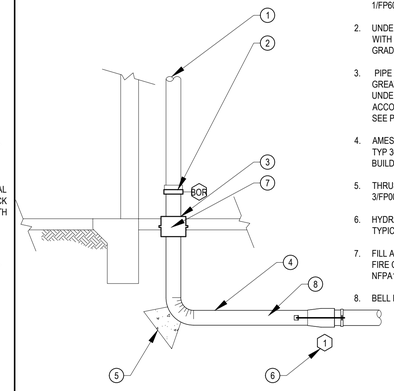
PIPE SIZE	90° BENDS			45° BENDS			22.5° BENDS			TEES AND PLUGS		
	SQ. FT.	"A"	"B"	SQ. FT.	"A"	"B"	SQ. FT.	"A"	"B"	SQ. FT.	"A"	"B"
6	8.9	53"	24"	4.8	39"	18"	2.5	30"	12"	6.3	43"	21"

BASED ON A WATER PRESSURE OF 200 POUNDS PER SQUIRE INCH AND A SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT, AND SAFETY FACTOR OF 1.5 IN ACCORDANCE WITH NFPA 13(2022) TABLE A.6.6.1(b).

TOTAL BLOCK DEPTH SHALL BE AT LEAST TWICE THE BLOCK DEPTH "B" IN ACCORDANCE WITH NFPA 24.

JOINT RESTRAINT SHALL UTILIZE BOTH THRUST BLOCKS AND MEGALUG MECHANICAL JOINT RESTRAINT FITTINGS PER LOCAL FIRE MARSHAL

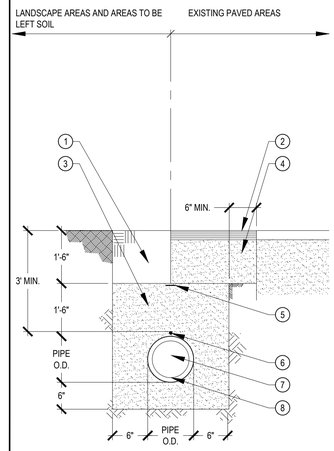
3 THRUST BLOCK N.T.S.



DETAIL NOTES:

1. FOR DETAIL OF OVERHEAD SPRINKLER SYSTEM RISER, SEE 1/FP601-02
2. UNDERGROUND WORK TO COUPLING WITH END CAP, 12" ABOVE FINISH GRADE
3. PIPE SLEEVE NOMINALLY 4" GREATER IN DIAMETER THAN THE UNDERGROUND RISER IN ACCORDANCE WITH NFPA 13 -18.4.2, SEE PLANS FOR SIZE
4. AMES IN-BUILDING RISER SERIES IBR TYP 304 SS TO 5'-0' OUTSIDE BUILDING, SEE PLANS FOR SIZE
5. THRUST BLOCK SEE DETAIL 3/FP002-02.
6. HYDRAULIC CALCULATION NODE, TYPICAL.
7. FILL ANNULAR SPACE WITH FLEXIBLE FIRE CAULK IN ACCORDANCE WITH NFPA13-18.4.8.
8. BELL RESTRAINT HARNESS.

1 EXTERIOR UNDERGROUND RISER N.T.S.



DETAIL NOTES:

1. SELECT NATIVE SOILS, 90% COMPACTION FOR AREAS TO BE LEFT IN NATIVE STATE ONLY. CAP AREAS IN UNPAVED ROADWAYS WITH 12" CLASS 2 AGGRERAGATE BASE, 95% COMPACTION
2. SAWCUT PAVEMENT EACH SIDE OF TRENCH 6' FROM TRENCH EDGE, REMOVE PAVEMENT AND BASEROCK, REPLACE AND RECOMPOST BASEROCK TACKCOAT EDGE AND REPAVE
3. SELECT SAND BACKFILL AT 95% COMPACTION
4. CLASS 2 AGGREGATE BASEROCK
5. PLASTIC WARNING TAPE MARKED "FIRE WATER"
6. 10 GA. COPPER TRACE WIRE COATED AND STRANDED TAPED ON TOP OF ALL NON-METALLIC PIPE
7. SAND BEDDING MATERIAL(95% COMPACTION)
8. FIRE SERVICE PIPING

2 UTILITY TRENCH N.T.S.

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DETAILS - FIRE PROTECTION

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FP002-02

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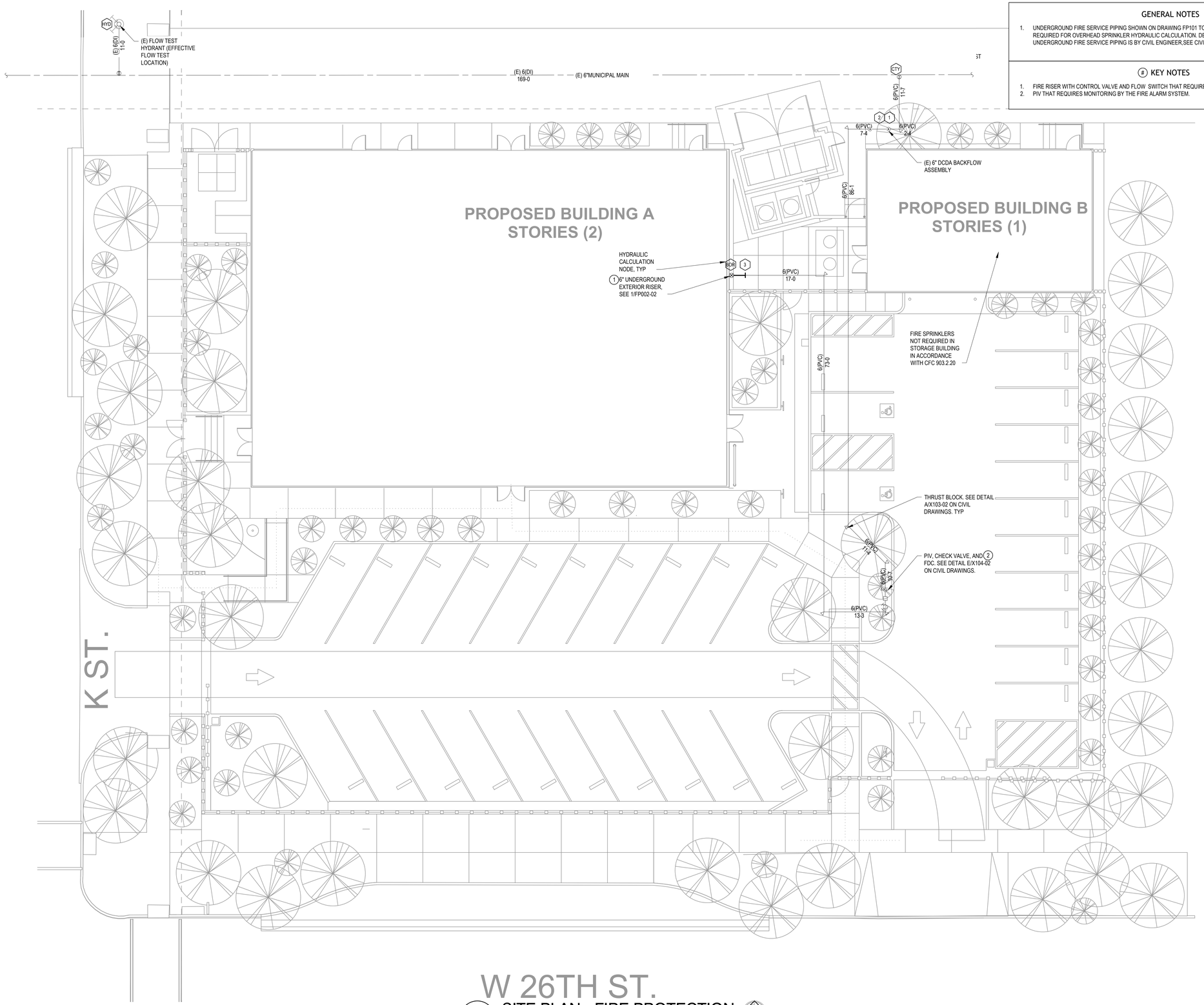

1 FP101-02 SITE PLAN - FIRE PROTECTION

SCALE: 1" =10'-0"

NORTH

GENERAL NOTES

1. UNDERGROUND FIRE SERVICE PIPING SHOWN ON DRAWING FP101 TO SHOW HYDRAULIC NODE LOCATIONS REQUIRED FOR OVERHEAD SPRINKLER HYDRAULIC CALCULATION. DESIGN AND SPECIFICATION FOR NEW UNDERGROUND FIRE SERVICE PIPING IS BY CIVIL ENGINEER,SEE CIVIL DRAWINGS AND SPECIFICATION.

(#) KEY NOTES

1. FIRE RISER WITH CONTROL VALVE AND FLOW SWITCH THAT REQUIRES MONITORING BY FIRE ALARM SYSTEM
2. PIV THAT REQUIRES MONITORING BY THE FIRE ALARM SYSTEM.

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SITE PLAN - FIRE PROTECTION

SHEET NUMBER:

FP101-02

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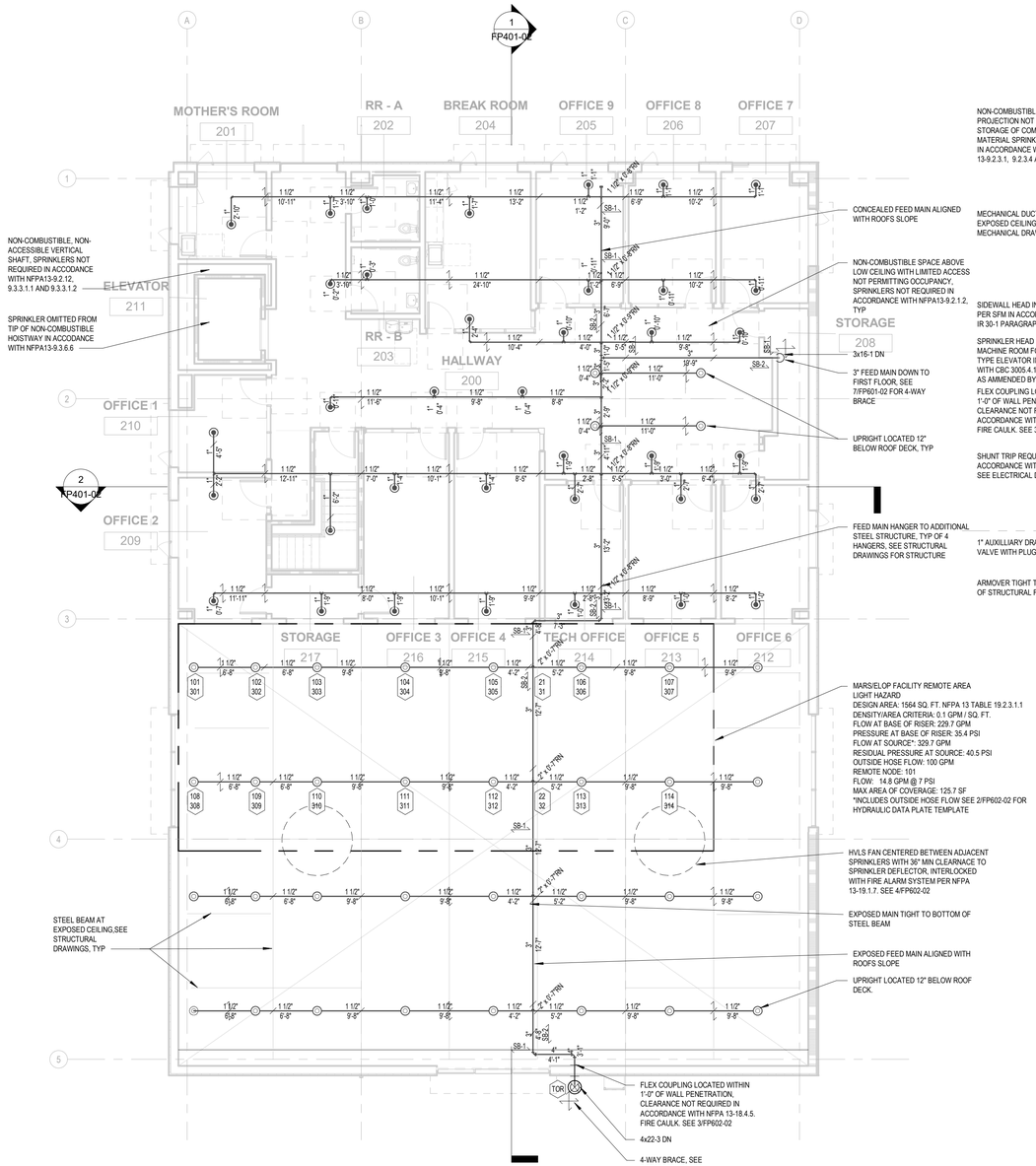
SPRINKLER SCHEDULE

SYMBOL	DISCRIPTION	MANF.	MODEL	SIN	TYPE	K FACTOR	TEMP RATING	QTY	NOTES
◉	RECESSED PENDENT	VIKING	MICROFAST PENDENT	VK302	SSP	5.6	155 °F	70	1, 2, 3, 4
✲	FLAT SPRAY UPRIGHT	VIKING	COIN UPRIGHT	VK950	SAU	5.6	200 °F	0	
○	UPRIGHT ON BRANCH LINE	VIKING	MICROFAST UPRIGHT	VK300	SSU	5.6	200 °F	0	
▽	SIDEWALL	VIKING	MICROFAST SIDEWALL	VK305	SSU	5.6	155 °F	0	
◎	UPRIGHT ON SPRIGUP	VIKING	MICROFAST UPRIGHT	VK300	SSU	5.6	200 °F	55	
TOTAL SPRINKLER (THIS SHEET)								125	
TOTAL SPRINKLERS (CLASSROOM BLDG)								125	

1. FINISH TO MATCH ADJACENT MATERIAL VERIFY WITH ARCHITECT.
2. PROVIDE WITH 401 EXTENSION.
3. PROVIDE STYLE 10 RECESSED ESCUTCHEON. FINISH TO MATCH ADJACENT MATERIAL VERIFY WITH ARCHITECT.
4. FOR LAY IN PANEL SUSPENDED PROVIDE 1" ANNULAR CLEARANCE AROUND RECESSED ESCUTCHEON. CONCEAL OVERSIZED HOLE WITH VIKING 1260 EXPANSION PLATE. FINISH TO MATCH ADJACENT MATERIAL VERIFY WIT ARCHITECT.

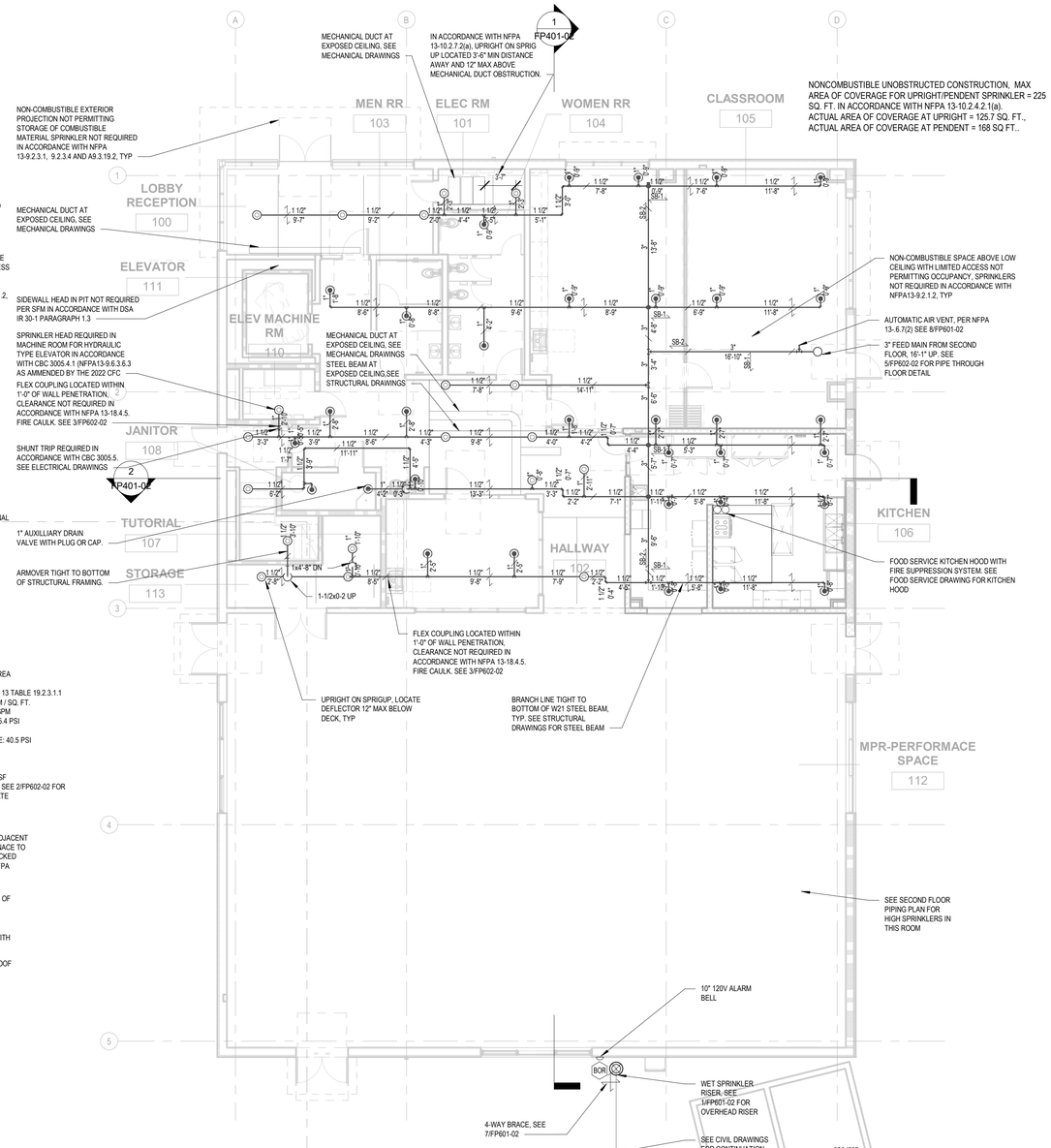
GENERAL NOTES:

1. ALL DIMENSIONS ARE FITTING TO FITTING UNLESS OTHERWISE NOTED. NOTE: CHANGE IN MODELED FITTING TYPE WILL AFFECT THESE DIMENSIONS CONTRACTOR SHALL VERIFY FITTTING TYPE AND CUT DIMENSIONS OF PIPE.
2. ALL PIPE 1-1/2" AND SMALLER SHALL BE SCHEDULED 40 BLACK STEEL WITH MALLEABLE IRON THREADED FITTINGS IN ACCORDANCE WITH ANSI B16.4
3. ALL PIPE 2" AND GREATER SHALL BE SCHEDULE 10 BLACK STEEL WITH GROOVED COUPLINGS AND WELDED OUTLETS.
4. ALL PIPE 1-1/2" AND SMALLER SHALL HAVE SUPPORT SPACING LESS THAN 12 FEET.
5. ALL PIPE 2" AND GREATER SHALL HAVE SUPPORT SPACING LESS THAN 15 FEET.
6. BRANCH LINES SHALL BE RESTRAINED AT THE END OF BRANCH LINE AND AT INTERVALS NOT EXCEEDING 33FT, SEE 3/FP601
7. PROVIDE 1" ANNULAR CLEARANCE AT ALL SPRINKLER PENETRATIONS OF LAY IN PANEL SUSPENDED CEILINGS.
8. FOR LAY IN PANEL SUSPENDED CEILINGS, PROVIDE 1" ANNULAR CLEARANCE AROUND RECESSED ESCHUTCHEON. CONCEAL OVERSIZED HOLE WITH VIKING 1260 EXPANSION PLATE, FINISH TO MATCH ADJACENT MATERIAL. VERIFY WITH ARCHITECT.



2 SECOND FLOOR PIPING PLAN - FIRE PROTECTION

2 FP201-02 1/8" = 1'-0"



1 FIRST FLOOR PIPING PLAN - FIRE PROTECTION

1 FP201-02 1/8" = 1'-0"

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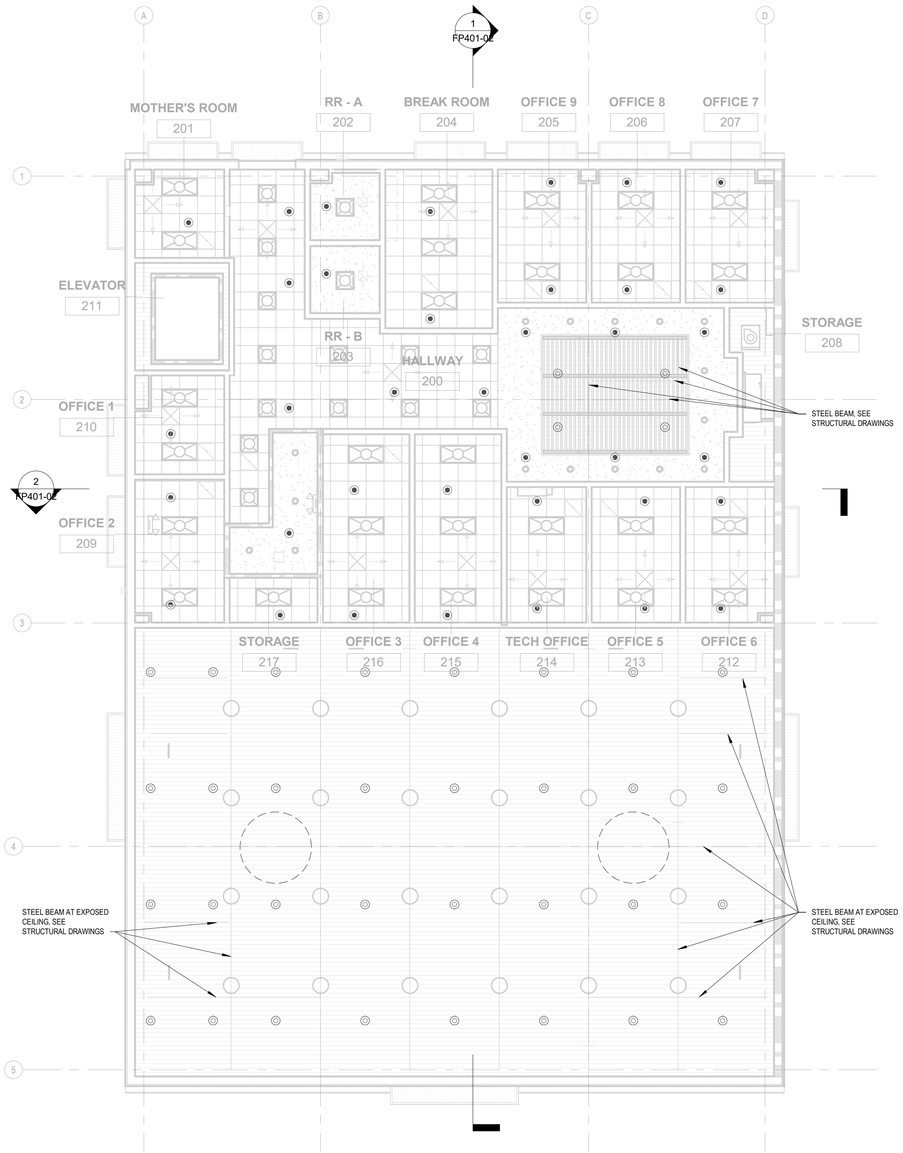
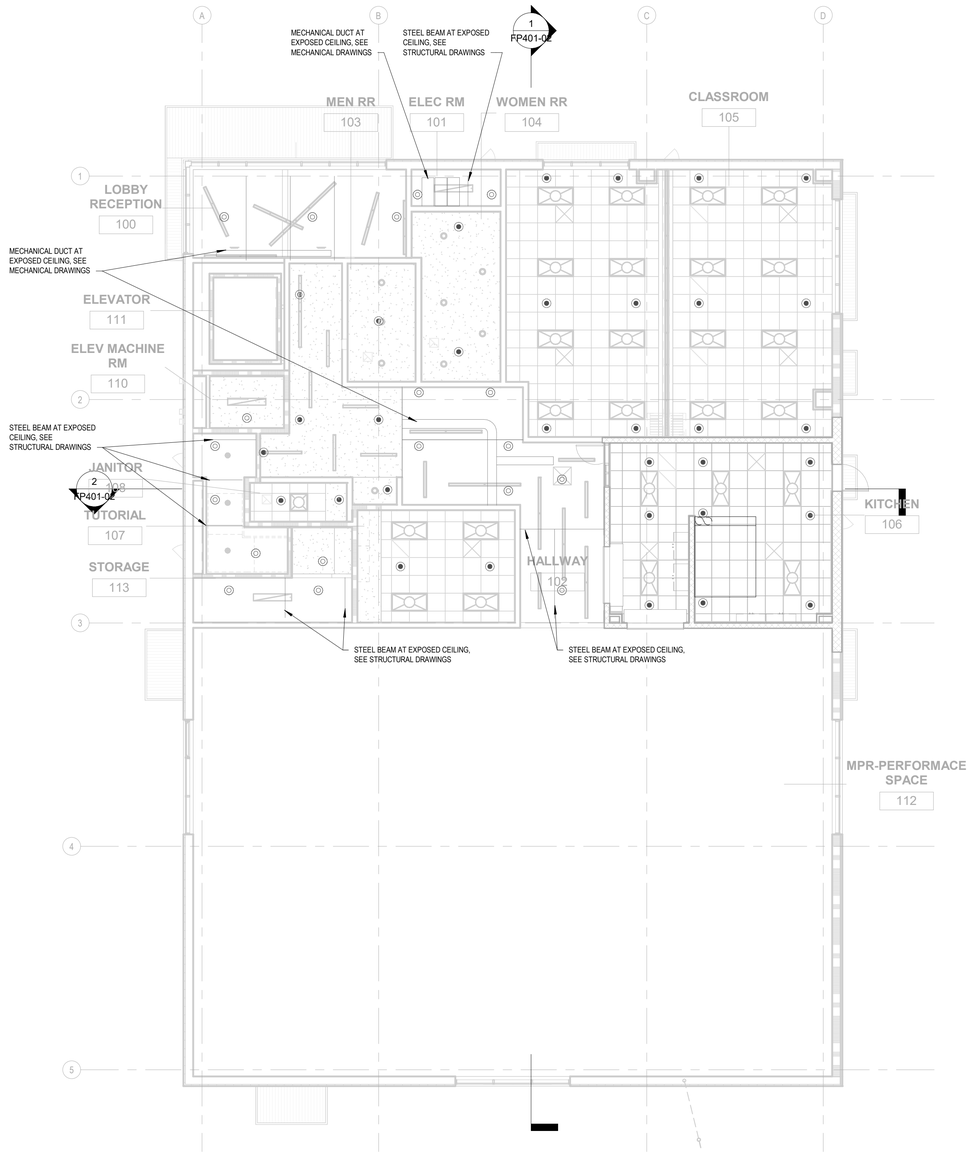


2 FP301-02 SECOND FLOOR CEILING PLAN - FIRE PROTECTION

1/8" = 1'-0"



1 FP301-02 FIRST FLOOR CEILING PLAN - FIRE PROTECTION

1/8" = 1'-0"

PROJECT NORTH

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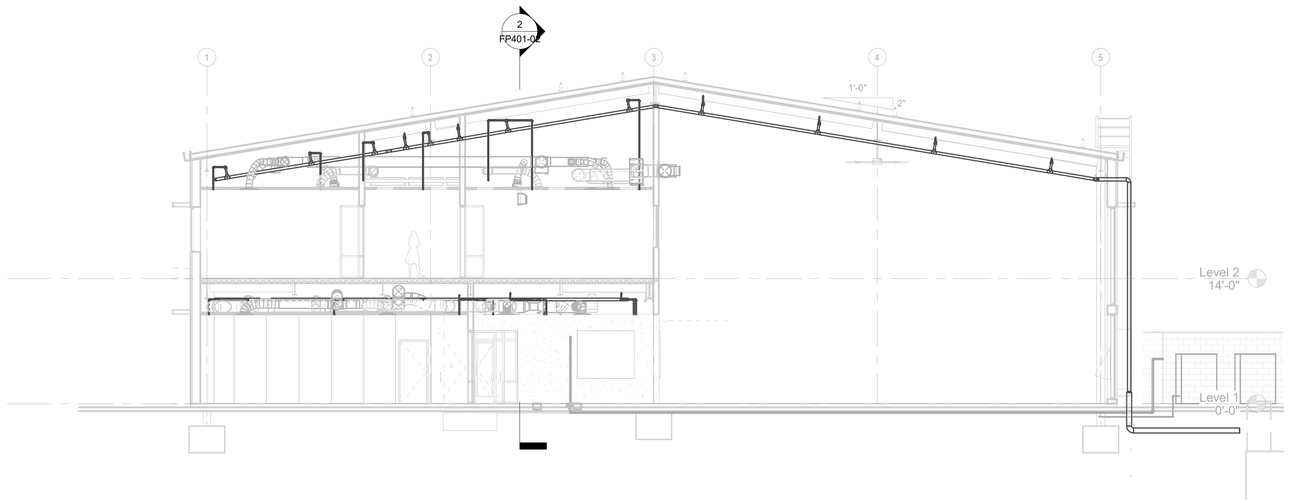
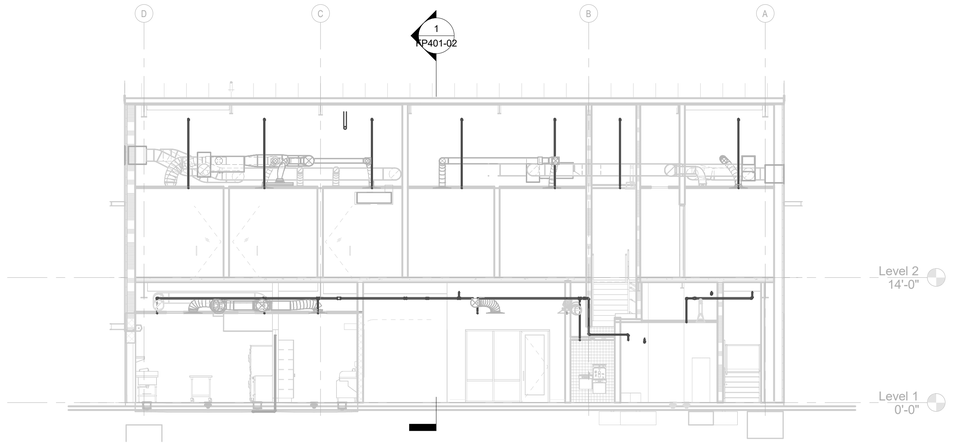


1 FP401-02 — SECTION 1 - FIRE PROTECTION

1/8" = 1'-0"



2 FP401-02 — SECTION 2 - FIRE PROTECTION

1/8" = 1'-0"

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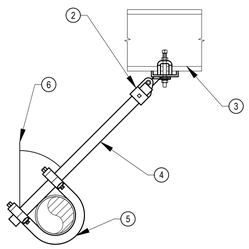
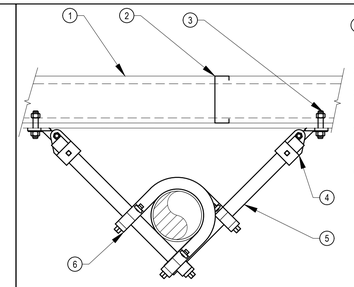


DETAIL NOTES:

1. TOLCO FIG 800 SWAY BRACE ATTACHMENT TO STEEL I-BEAM
2. TOLCO FIG. 909 NO-TREAD SWIVEL SWAY BRACE ATTACHMENT
3. STEEL BEAM, SEE STRUCTURAL DRAWINGS
4. 1" SCH. 40 BRACE PIPE
5. TOLCO FIG. 1001 SWAY BRACE ATTACHMENT
6. 60°-90°

10 | LATERAL SEISMIC BRACE SB-1 | N.T.S.

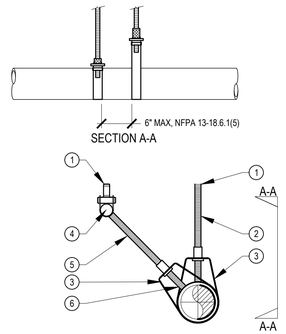


PLAN VIEW

DETAIL NOTES:

1. BLOCKING IN WALL, SEE 4/S008-02
2. METAL WALL STUD
3. 1/2" THRU BOLT TO METAL STUD BLOCKING
4. TOLCO FIG. 909 SWIVEL
5. 1" SCHEDULE 40 STEEL PIPE
6. TOLCO 1001 SWAY BRACE ATTACHMENT

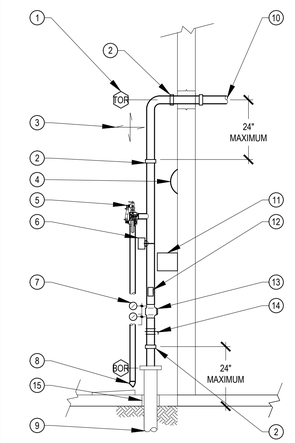
7 | RISER BRACE | N.T.S.



DETAIL NOTES:

1. ATTACH TO STEEL BEAM CLIP SEE 2/FP601-02. WHERE HANGERS ARE ATTACHED TO CONCRETE DECK ATTACH IN ACCORDANCE WITH DETAIL 3/FP601-02
2. 3/8" TOLCO FIG. 100 HANGER ROD WITHIN 6" OF RESTRAINT ROD IN ACCORDANCE WITH NFPA13-18.6.1
3. TOLCO FIG 200 BAND HANGER
4. TOLCO FIG 75 SWIVEL ATTACHMENT
5. 3/8" TOLCO FIG 100 RESTRAINT ROD
6. EXTEND ROD TO PIPE OR PROVIDE TOLCO FIG 25 SURGE RESTRAINT TYPICAL. SEE 6/FP601 FOR SURGE RESTRAINT

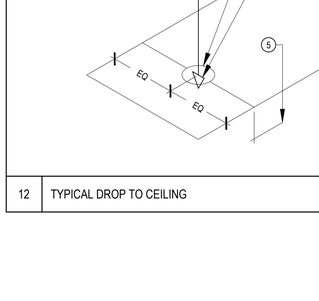
4 | BRANCH LINE RESTRAINT | N.T.S.



DETAIL NOTES:

1. HYDRAULIC CALCULATION NODE, TYP
2. FLEXIBLE COUPLING, TYP
3. 4-WAY BRACE, SEE 7/FP601-02
4. 10" 120V ALARM BELL POTTER PBA12010
5. 2" TESTANDRAIN MODEL 1011A WITH MODEL 7000 PRESSURE RELIEVE VALVE SET AT 175 PSI
6. FLOW SWITCH.
7. PRESSURE GAGE, TYP
8. PROVIDE TERMINATION WITH 45° EL TO SMOOTH BORE CORROSION-RESISTANT OUTLET GIVING FLOW EQUIVALENT TO ONE SPRINKLER FOR ALARM TEST IN ACCORDANCE WITH NFPA 13-16.14.1
9. SEE 1/FP002-02 FOR UNDERGROUND RISER
10. TO SYSTEM SEE SPRINKLER PIPING PLAN
11. SPARE HEAD CABINET
12. HYDRAULIC DATA PLATE
13. TYCO CV-1FR UL LISTED CHECK VALVE
14. BUTTERFLY INDICATING VALVE WITH TAMPER SWITCH.
15. FILL ANNULAR CLEARANCE WITH FLEXIBLE FIRE CAULK SEE 1/FP002-02.

1 | WET RISER | N.T.S.



DETAIL NOTES:

1. TOLCO FIG 800 SWAY BRACE ATTACHMENT TO STEEL I-BEAM
2. TOLCO FIG. 909 NO-TREAD SWIVEL SWAY BRACE ATTACHMENT
3. STEEL BEAM, SEE STRUCTURAL DRAWINGS
4. 1" SCH. 40 BRACE PIPE
5. FIG. 4L LONGITUDINAL IN-LINE SWAY BRACE.
6. 60°-90°

11 | LONGITUDINAL SEISMIC BRACE SB-2 | N.T.S.

NOTE: CLOSE VALVE AND CAP AFTER SYSTEM PURGING IS COMPLETE

DETAIL NOTES:

1. 1/2" MALE NPT DRAIN CONNECTION
2. POTTERS PAY 175 PSI AIR VENT VALVE
3. 1/2"x2" NIPPLE
4. SCREEN
5. CAP
6. 1/2" UNION CONNECTION
7. 40 MESS STRAINER
8. 1/2" BALL VALVE
9. 1/2" CLOSE NIPPLE, TYP

8 | AIR VENT | N.T.S.

NOTE:
1. RESTRAINT LOCATED 2FT MAX FROM NEAREST HANGER IN ACCORDANCE WITH NFPA 13-18.6.2.1
2. THE HANGER CLOSEST TO WIRE RESTRAINT SHALL RESIST UP MOVEMENT IN ACCORDANCE WITH NFPA 13-18.6.2.2

DETAIL NOTES:

1. METAL DECKING, SEE STRUCTURAL DRAWINGS
2. TWO #8 X 1/2" SELF TAPPING SCREWS
3. 10GA. GALVANIZED STEEL STRAPS 3" WIDE x4" LONG
4. FOUR TIGHT TURNS
5. NO. 12, 440 LBS RESTRAINT WIRE INSTALLED AT LEAST 45° FROM VERTICAL AND ANCHORED ON BOTH SIDES OF PIPE
6. 45°

5 | RESTRAINT WIRE | N.T.S.

DETAIL NOTES:

1. TOLCO FIG. 69 RETAINING STRAP
2. LOCK NUT REQ'D
3. TOLCO FIG. 65 BEAM CLAMP TO TOP TO TOP FLANGE
4. 3/8" TOLCO FIG. 100 THREADED ROD
5. TOLCO FIG. 200 ADJUSTABLE RING HANGER
6. ALTERNATE BEAM CLAP LOCATION AT BOTTOM FLANGE WHERE DECK PROFILE DOES NOT ALLOW

2 | RING HANGER | N.T.S.

DETAIL NOTES:

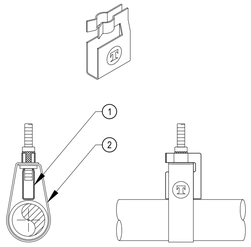
1. HANGER FOR ARMOVER GREATER THAN 2FT
2. 1" SCH 40 HARD PIPE TYPICAL
3. PROVIDE 1' ANNULAR CLEARANCE AT ALL SPRINKLER PENETRATIONS OF LAY IN PANEL SUSPENDED CEILINGS. PROVIDE OVERSIZED EXPANSION PLATE AT RECESSED SPRINKLER ESCUTCHEON
4. PENDENT HEAD AT LOW CEILINGS
5. CENTER OR QUARTER POINT LENGTH WISE ALONG PANEL
6. BRANCH LINE
7. TEE DOWN FOR SWING ARMOVER TO FACILITATE ALIGNMENT AT LOW CEILING

12 | TYPICAL DROP TO CEILING | N.T.S.

DETAIL NOTES:

1. HANGER FOR ALL ARMOVERS WITH DROPS GREATER THAN 4 FEET.
2. TERMINATE 1" HARD PIPE DROP WITH FLEX HEAD 2072F FLEXIBLE (1.25 IN i.D.) SPRINKLER HOSE WITH MPF24BKT1 STUD MOUNTING BRACKET FOR HARD CEILING APPLICATION OR BRACKET FOR LAY IN CEILING APPLICATION AS REQUIRED.
3. PROVIDE FLEXHEAD CEILING MOUNTING BRACKET
4. PENDENT HEAD AT LOW CEILINGS
5. BRANCH LINE
6. TEE DOWN FOR SWING ARMOVER TO FACILITATE ALIGNMENT AT LOW CEILING.

9 | DROP OVER 4 FEET TO LOW CEILING | N.T.S.

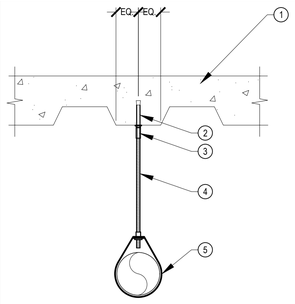


DETAIL NOTES:

1. TOLCO FIG. 25 SURGE RESTRAINT
2. TOLCO FIG. 200 ADJUSTABLE RING HANGER

NOTE:
1. USE TYPE 1-FOR 1" AND 1-1/4" PIPE AND HANGER
2. USE TYPE 2- FOR 1-1/2" AND 2" PIPE AND HANGERS
3. NOT REQUIRED IF ALL THREAD ROD IS INSTALLED TIGHT TO TOP OF PIPE

6 | SURGE RESTRAINT | N.T.S.



DETAIL NOTES:

1. CONCRETE OVER METAL DECK SEE STRUCTURAL DRAWINGS
2. WEDGE ANCHOR HILTI KWIK BOLT TZ2 (ICC-ESR-4266) EMBED 2"
3. JAM NUT AND ANVIL FIG 136 UL LISTED WINDOW ROD COUPLING
4. 3/8" TOLCO FIG. 100 ALL THREAD ROD
5. TOLCO FIG. 200 RING HANGER

NOTE:
1. FOR PIPE SIZES UP TO AND INCLUDING 4".
2. NO HANGERS SHALL BE SUPPORTED BY THE BARE METAL DECK.

3 | RING HANGER | N.T.S.

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cypresseg.com
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support

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STEVEN E. RAWSON
EXP: JUNE 30, 2026
MECHANICAL
STATE OF CALIFORNIA

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PROJECT:

MARS/ELOP FACILITY
MCSD - 26TH ST.

CLIENT:

MERCED CITY SCHOOL DISTRICT

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SHEET TITLE

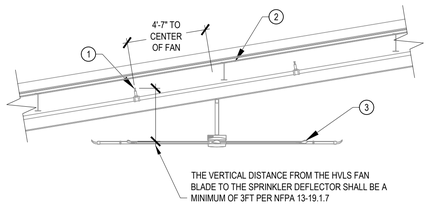
DETAILS - FIRE PROTECTION

SHEET NUMBER:

FP601-02

DETAIL NOTES:

1. SPRINKLER DEFLECTOR
2. BOTTOM OF DECK
3. HVLS FAN



THE VERTICAL DISTANCE FROM THE HVLS FAN BLADE TO THE SPRINKLER DEFLECTOR SHALL BE A MINIMUM OF 3FT PER NFPA 13-19.1.7

SEE 3/A901-02 FOR HVLS FAN MOUNTING

4 | HVLS FAN | N.T.S.

HYDRAULIC - SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULIC DESIGN AUTOMATIC SPRINKLER SYSTEM

LOCATION: MARS/ELOP FACILITY

SPRINKLER INFORMATION

MANUFACTURER:	VIKING	MODEL:	MICROFAST VK300	TEMPERATURE:	200°F
TYPE:	SSU	SIN:	VK300	K-FACTOR:	5.6
ORIFICE:	1/2"				
MANUFACTURER:	VIKING	MODEL:	MICROFAST VK302	TEMPERATURE:	155°F
TYPE:	SSP	SIN:	VK300	K-FACTOR:	5.6
ORIFICE:	1/2"				
MANUFACTURER:	VIKING	MODEL:	COIN VK302	TEMPERATURE:	200°F
TYPE:	SAU	SIN:	VK950	K-FACTOR:	5.6
ORIFICE:	1/2"				

BASIS OF DESIGN

STANDARD: NFPA 13, 2022 EDITION | HAZARD GROUP: LIGHT HAZARD | NUMBER OF FLOWING SPRINKLERS: 14

DENSITY: 0.1 GPM/ SF | DESIGN AREA OF DISCHARGE: 1564 SF | PROTECTION AREA PER SPRINKLER: 130 SF

SYSTEM DEMAND

FLOW AT THE BASE OF THE RISER	228.8 GPM	HOSE STREAM ALLOWANCE:	
THE BASE OF THE RISER:		INSIDE: 0 GPM	
RESIDUAL PRESSURE AT	37.8 PSI	OUTSIDE: 100 GPM	
THE BASE OF THE RISER:		TOTAL	
REQUIRED FLOW	328.8 GPM	REMOTE SPRINKLER FLOW	
AT THE SOURCE:		14.8 GPM @ 7.0 PSI REMOTE NODE 101	
REQUIRED PRESSURE	41.9 PSI		
AT THE SOURCE:			

NAME OF INSTALLING CONTRACTOR:

NOTE: SEE FP201 FOR HYDRAULIC DATA PLATE INFORMATION

1 | HYDRAULIC DESIGN INFORMATIN SIGN (NPFA13-29.4.3) | N.T.S.

SEISMIC BRACING CALCULATIONS

PROJECT: MARS/ELOP FACILITY MCSD-26TH ST	CYPRESS ENGINEERING GROUP
ADDRESS: 2600 K ST. MERCED, CA 95348	8 HARRIS CT. SUITE A8, MONTEREY, CA 93940 (831) 218-1802

BRACE INFORMATION

MAXIMUM SPACING:	25'-0"
MAXIMUM BRACE LENGTH:	7'-0"
BRACING MATERIAL:	1" Sch. 40
ANGLE FROM VERTICAL:	60° Minimum
LEAST RADIUS OF GYRATION	0.421"
L/R VALUE*:	200
MAXIMUM HORIZONTAL LOAD: NFPA 13: TABLE 18.5.11(b)	1604 lbs

FASTENER INFORMATION

ORIENTATION OF CONNECTING SURFACE:	NFPA Type C
TYPE:	Through Bolt
DIAMETER:	1/2 in.
LENGTH:	1/2 in.
MAXIMUM LOAD:	2550 lbs.
NFPA 13: FIGURE 18.5.12.2	

SEISMIC BRACE ATTACHMENTS

STRUCTURE ATTACHMENT FITTINGS OR TENSION-ONLY BRACING SYSTEMS:

MAKE: TOLCO MODEL FIG 909 NO THREAD SWIVEL

LISTED LOAD RATING: 1370 ADJUSTED LOAD RATING: 1186 x0.8 = 949

SWAY BRACE (PIPE ATTACHMENT) FITTING:

MAKE: TOLCO MODEL FIG 1001 SWAY CLAMP

LISTED LOAD RATINGS: 2000 ADJUSTED LOAD RATING: 1732 x0.8 = 1386

Seismic Brace Assembly Detail (Provide detail on plans)

See Detail 10/FP601-02. SEE DETERMINATION OF SEISMIC COEFFICIENT Cp ON FP001-02.

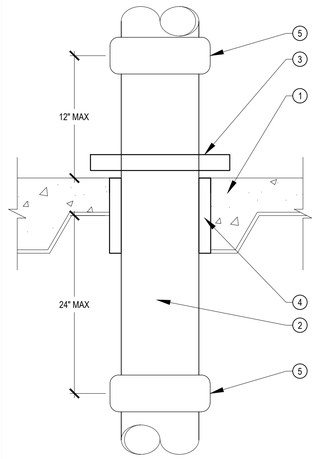
BRACE IDENTIFICATION NO. (TO BE USED ON PLANS) SB-1

LATERAL BRACE		LONGITUDINAL BRACE
X		

SEISMIC COEFFICIENT Cp= 0.37

DIAMETER	TYPE	LENGTH	TOTAL(FT)	WEIGHT PER FT	TOTAL WEIGHT
4 in.	Sch. 10 Steel		0.0	11.78	0.00
3 in.	Sch. 10 Steel		25.0	7.94	198.50
2 in.	Sch. 10 Steel		0.0	4.22	0.00
1 1/2 in.	Sch. 40 Steel		128.0	3.61	462.08
1 1/4 in.	Sch. 40 Steel		0.0	2.93	0.00
1 in.	Sch. 40 Steel		0.0	2.05	0.00
Total Weight of Water Filled Piping					660.58
Wp (Total weight of Water Filled Piping x 1.15 to account for valves and fittings)					759.67
HorixontalForce (NFPA 13: 18.5.9.3) Fpw = Cp x Wp =					281.08

*Excludes tension-only bracing systems



DETAIL NOTES:

1. SEE ARCHITECTS DRAWINGS FOR FLOOR ASSEMBLIES
2. STEEL PIPE
3. TOLCO BLINE B3373 RISER CLAMP.
4. PIPE SLEEVE NOMINALLY 4" LARGER THAN RISER DIAMETER IN ACCORDANCE WITH NFPA 13-18.4.3.
5. FLEXIBLE COUPLING IN ACCORDANCE WITH NFPA 13-18.2.4.1(2).

5 | PIPE THROUGH FLOOR DETAIL | N.T.S.

Sprinkler System - General Information

For:

MARS/ELOP FACILITY MCSD -26TH ST
MERCED CITY SCHOOL DISTRICT
2600 K STREET, MERCED, CA 95348

Pipe Scheduled System:	☐ YES	☒ NO	Date:		
High Piled Storage:	☐ YES	☒ NO	Flow Test Date:	04/8/2025	
Rack Storage:	☐ YES	☒ NO	Static:	53	psi bar
Commodity Class:			Residual:	25	psi bar
Max Storage Height:		ft m	Flow:	1216	gpm lpm
Aisle Width (min):		ft m	Pitot:		psi bar
Encapsulation:	☐ YES	☒ NO	Date:		
Solid Shelving:	☐ YES	☒ NO	Location:		
Flammable/Combustible Liquids:	☐ YES	☒ NO			
Other Storage	☐ YES	☒ NO	Location of Aux/low point drain		
Hazardous Material:	☐ YES	☒ NO			
Idle pallets:	☐ YES	☒ NO			
Antifreeze Systems	☐ YES	☒ NO	Dry pipe/double interlock preaction valves test results:		
Location:					
Dry or Aux Systems	☐ YES	☒ NO	Original main drain test results:		
Location:			Static:		psi bar
			Residual:		psi bar
			Venting Valve location:		

Where injection systems are used to treat MIC or corrosion:

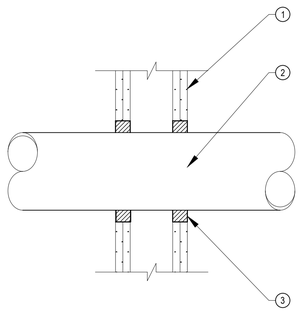
Type of chemical: Concentration: For purpose of disposal, see:

Name of contractor or designer:	CYPRESS ENGINEERING
Address:	8 HARRIS CT, SUITE A8, MONTEREY CA 93940
Phone:	831-218-1802

2 | GENERAL INFORMATION SIGN TEMPLATE

DETAIL NOTES:

1. SEE ARCHITECTS DRAWINGS FOR RATED ASSEMBLIES
2. STEEL PIPE
3. FIRE CAULK ANNULAR SPACE AROUND PIPE PENETRATION WITH HILTI FS-ONE SEALANT IN ACCORDANCE WITH MANUFACTURER'S LISTING W-L-1054



3 | FIRE CAULK | N.T.S.

SEISMIC BRACING CALCULATIONS

PROJECT: MARS/ELOP FACILITY MCSD-26TH ST	CYPRESS ENGINEERING GROUP
ADDRESS: 2600 K ST. MERCED, CA 95348	8 HARRIS CT. SUITE A8, MONTEREY, CA 93940 (831)-218-1802

BRACE INFORMATION

MAXIMUM SPACING:	33'-0"
MAXIMUM BRACE LENGTH:	7'-0"
BRACING MATERIAL:	1" Sch. 40
ANGLE FROM VERTICAL:	60° Minimum
LEAST RADIUS OF GYRATION	0.421*
L/R VALUE*:	200
MAXIMUM HORIZONTAL LOAD: NFPA 13: TABLE 18.5.11(b)	1604 lbs

FASTENER INFORMATION

ORIENTATION OF CONNECTING SURFACE:	NFPA Type C
TYPE:	Through Bolt
DIAMETER:	1/2 in.
LENGTH:	1/2 in.
MAXIMUM LOAD:	2550 lbs.
NFPA 13: FIGURE 18.5.12.2	

SEISMIC BRACE ATTACHMENTS

STRUCTURE ATTACHMENT FITTINGS OR TENSION-ONLY BRACING SYSTEMS:

MAKE: TOLCO MODEL FIG 909 NO THREAD SWIVEL

LISTED LOAD RATING: 1370 ADJUSTED LOAD RATING: 1186 x0.8 = 949

SWAY BRACE (PIPE ATTACHMENT) FITTING:

MAKE: TOLCO MODEL FIG 4L SWAY BRACE ATTACHMENT

LISTED LOAD RATINGS: 2000 ADJUSTED LOAD RATING: 1732 x0.8 = 1386

Seismic Brace Assembly Detail (Provide detail on plans)

See Detail 11/FP601-02. SEE DETERMINATION OF SEISMIC COEFFICIENT Cp ON FP001. TOLCO FIG 800 SWAY BRACE ATTACHMENT 1265 LBS

BRACE IDENTIFICATION NO. (TO BE USED ON PLANS) SB-2

LATERAL BRACE		LONGITUDINAL BRACE
	X	

SEISMIC COEFFICIENT Cp= 0.37

DIAMETER	TYPE	LENGTH	TOTAL(FT)	WEIGHT PER FT	TOTAL WEIGHT
4 in.	Sch. 10 Steel		0.0	11.78	0.00
3 in.	Sch. 10 Steel		40.0	7.94	317.60
2 in.	Sch. 10 Steel		0.0	4.22	0.00
1 1/2 in.	Sch. 40 Steel		0.0	3.61	0.00
1 1/4 in.	Sch. 40 Steel		0.0	2.93	0.00
1 in.	Sch. 40 Steel		0.0	2.05	0.00
Total Weight of Water Filled Piping					317.60
Wp (Total weight of Water Filled Piping x 1.15 to account for valves and fittings)					365.24
HorixontalForce (NFPA 13: 18.5.9.3) Fpw = Cp x Wp =					135.14

*Excludes tension-only bracing systems

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Building Commissioning
Industrial Refrigeration
Environmental Compliance
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MCSD - 26TH ST.

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SHEET TITLE

SEISMIC BRACING CALCULATIONS - FIRE PROTECTION

SHEET NUMBER:

FP602-02

GENERAL NOTES

1. PLUMBING VENTS, SKYLIGHTS, EXHAUST OUTLETS, VENTILATION INTAKES OR OPENINGS SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM.
2. ALL OUTDOOR EQUIPMENTS SHALL BE NEMA 3R RATED, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
3. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
4. ALL CIRCUITS CONNECTED TO MORE THAN ONE SOURCE SHALL HAVE OVERCURRENT DEVICES LOCATED SO AS TO PROVIDE OVERCURRENT PROTECTION FROM ALL SOURCES.
5. UTILITY-INTERACTIVE INVERTERS SHALL AUTOMATICALLY DE-ENERGIZE ITS OUTPUT TO THE CONNECTED ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK UPON LOSS OF VOLTAGE IN THE SYSTEM AND SHALL REMAIN IN THAT STATE UNTIL THE ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK VOLTAGE HAS BEEN RESTORED.
6. DUE TO THE FACT THAT PV MODULES ARE ENERGIZED WHENEVER EXPOSED TO LIGHT, PV CONTRACTORS SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY SHORT-CIRCUITING OR COVERING THE ARRAY WITH OPAQUE COVERING.
7. ALL CONDUCTORS EXPOSED TO WEATHER SHALL BE LISTED AND IDENTIFIED FOR THE INDIRECT SUNLIGHT.
8. MODULE CONNECTORS MUST BE TYPE USE-2 OR LISTED FOR PHOTOVOLTAIC PV WIRE.
9. ALL CONDUCTORS SHALL BE MARKED ON EACH END FOR UNIQUE IDENTIFICATION.
10. ALL GROUNDED CONDUCTORS SHALL BE MARKED IN EACH ENDS FOR UNIQUE IDENTIFICATION AND SHALL BE PROPERLY COLOR IDENTIFIED AS WHITE.
11. PV SYSTEM CONNECTED ON THE LOAD SIDE OF THE SERVICE DISCONNECTING MEANS OF THE OTHER SOURCE(S) AT ANY DISTRIBUTION EQUIPMENT ON THE PREMISES SHALL MEET THE FOLLOWING:
12. EACH SOURCE CONNECTION SHALL BE MADE AT A DEDICATED CIRCUIT BREAKER OR FUSIBLE DISCONNECTING MEANS.
13. THE SUM OF THE AMPERE RATINGS OF THE OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTOR SHALL NOT EXCEED 120% OF THE RATING OF THE BUSBAR OR CONDUCTOR.
14. EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTOR SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES.
15. CIRCUIT BREAKER, IF BACKFED, SHALL BE SUITABLE FOR SUCH OPERATION [NEC 705.12(D)(5)].
16. FOR LOAD SIDE INTERCONNECTION, THE PANELBOARD MAIN CIRCUIT BREAKER AND THE PV POWER SOURCE CIRCUIT BREAKER SHALL BE PHYSICALLY LOCATED AT THE OPPOSITE END OF THE BUSBAR.
17. METALLIC RACEWAYS OR METALLIC ENCLOSURES ARE REQUIRED WIRING METHODS FOR INSIDE A BUILDING FOR PV SYSTEM.
18. FLEXIBLE, FINE-STRANDED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES, OR CONNECTORS THAT ARE IDENTIFIED AND LISTED FOR SUCH USE.
19. CONNECTORS SHALL BE OF LATCHING OR LOCKING TYPE. CONNECTORS THAT ARE READILY ACCESSIBLE AND OPERATING AT OVER 30V SHALL REQUIRE TOOL TO OPEN AND MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING".
20. ROOF MOUNTED PHOTOVOLTAIC MODULES, PANELS OR SOLAR VOLTAIC ROLL ROOFING MATERIAL SHALL HAVE THE SAME OR BETTER LISTED FIRE-RATING THAN THE BUILDING ROOF-COVERING MATERIAL.
21. REMOVAL OF A UTILITY-INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR AND THE PHOTVOLTAIC SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTOR.
22. EQUIPMENT GROUNDING CONDUCTOR FOR PV MODULES SMALLER THAN 6 AWG SHALL BE PROTECTED FROM PHYSICAL DAMAGE BY A RACEWAY OR CABLE ARMOR.
23. EQUIPMENT GROUNDING CONDUCTOR FOR PV SYSTEMS WITHOUT GROUND FAULT PROTECTION AND INSTALLED ON NON-DWELLING UNIT MUST HAVE AMPACITY OF AT LEAST TWO TIMES THE TEMPERATURE AND CONDUIT FILL CORRECTED CIRCUIT CONDUCTOR AMPACITY.
24. FINE-STRANDED CABLES USED FOR BATTERY TERMINALS, DEVICES, AND CONNECTIONS REQUIRE LUGS AND TERMINALS LISTED AND MARKED FOR ITS USE [NEC 690.74(A)].
25. AVERAGE SOLAR CONSUMPTION IS NOT TO EXCEED 120% OF AVERAGE ANNUAL CONSUMPTION.

PV SYSTEM SPECIFICATIONS

PHOTOVOLTAIC SOLAR MODULE MODEL:
SOLAR PANELS

MODULE RATING:
540W

NUMBER OF MODULES:
32

PHOTOVOLTAIC SOLAR INVERTER:
DPI-208 MICROINVERTER

ENERGY STORAGE UNIT:
SL-100

PV SYSTEM CAPACITY : 17.2 KWdc

BESS CAPACITY : 32 KWH (SEE MTG. DETAIL 4/PV301-02)

CODE COMPLIANCE

2022 CALIFORNIA BUILDING CODE

2022 CALIFORNIA MECHANICAL CODE

2022 CALIFORNIA PLUMBING CODE

2022 CALIFORNIA ELECTRICAL CODE

2022 CALIFORNIA FIRE CODE

2022 CALIFORNIA ENERGY CODE

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

REQUIRED PV SYSTEM SIZE (KW)			
CLIMATE ZONES	OFFICE BUILDING		
12	16.3		

PV SHEET INDEX

Sheet Number	Sheet Name
PV001-02	GENERAL NOTES, SYMBOLS AND SHEET INDEX
PV201-02	PV ROOF PLAN
PV301-02	PV DETAILS
PV302-02	PV DETAILS
PV401-02	SINGLE LINE DIAGRAM
PV501-02	TITLE 24
PV601-02	PV AND BATTERY SPECS

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MARS/ELO-P FACILITY
MCSD - 26TH ST.

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SHEET TITLE
GENERAL NOTES, SYMBOLS AND SHEET INDEX

SHEET NUMBER:
PV001-02

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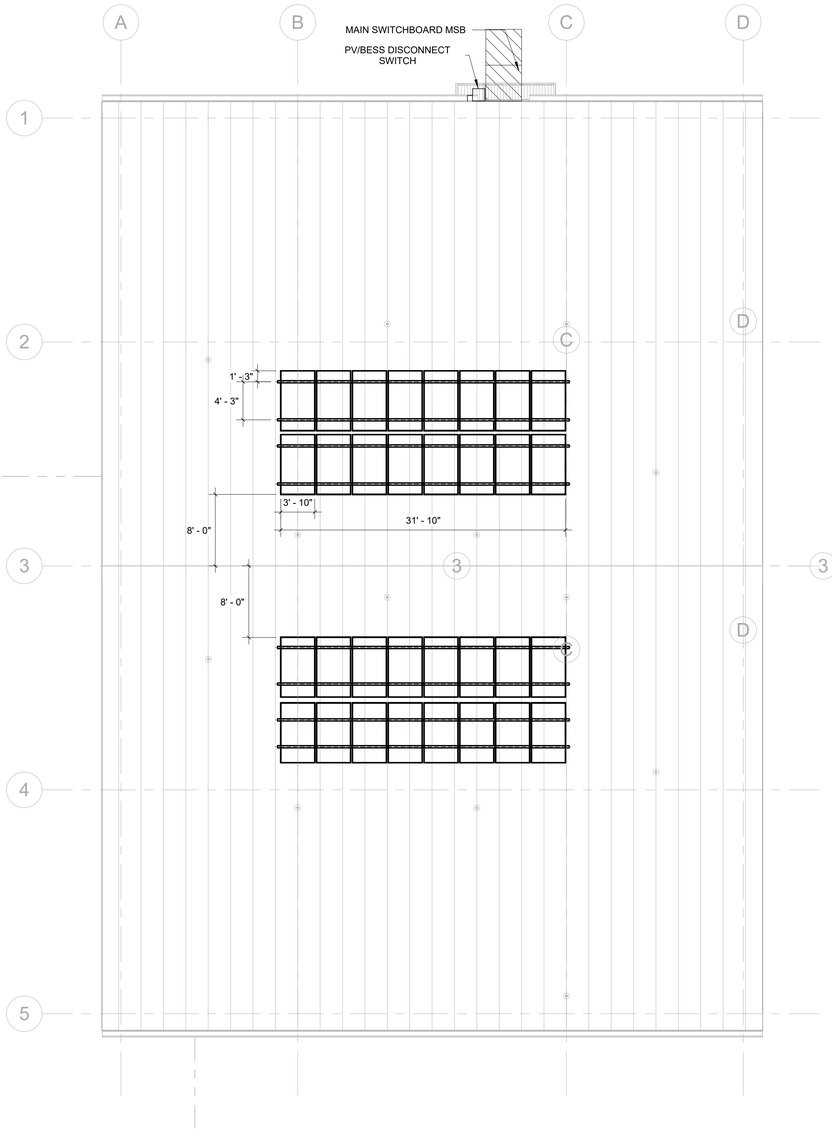

1 PV ROOF PLAN
1/8" = 1'-0"

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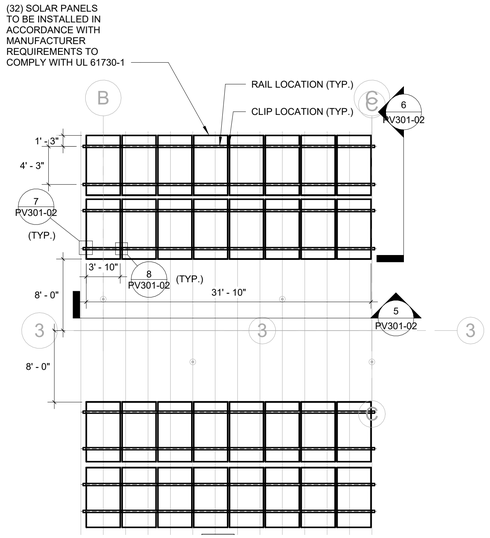
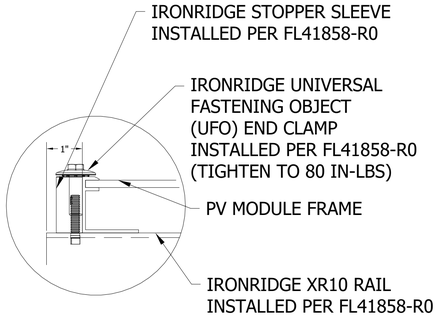
SHEET TITLE
PV ROOF PLAN

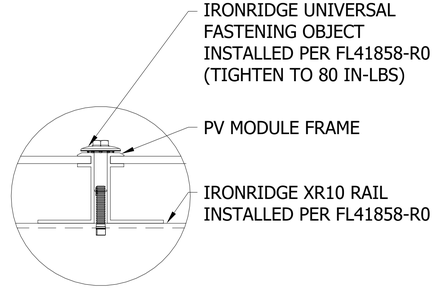
SHEET NUMBER:
PV201-02



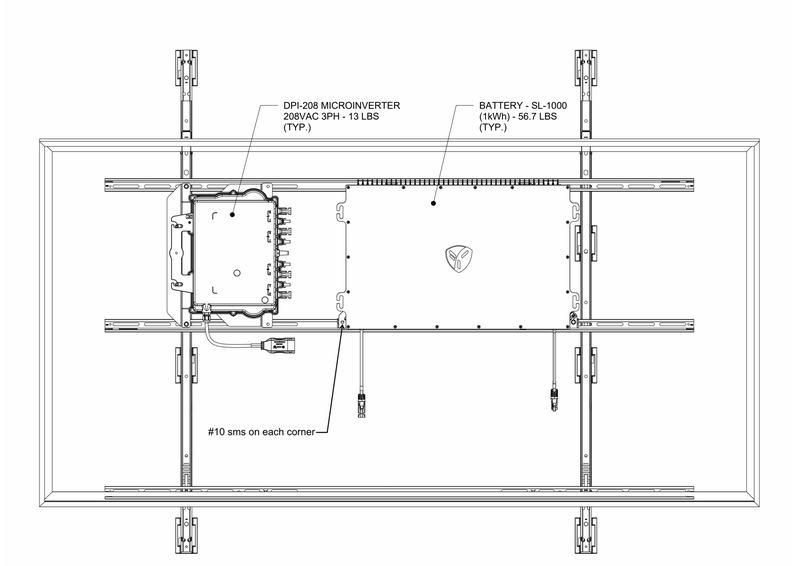
1 PV ROOF PLAN - DETAIL
1/8" = 1'-0"



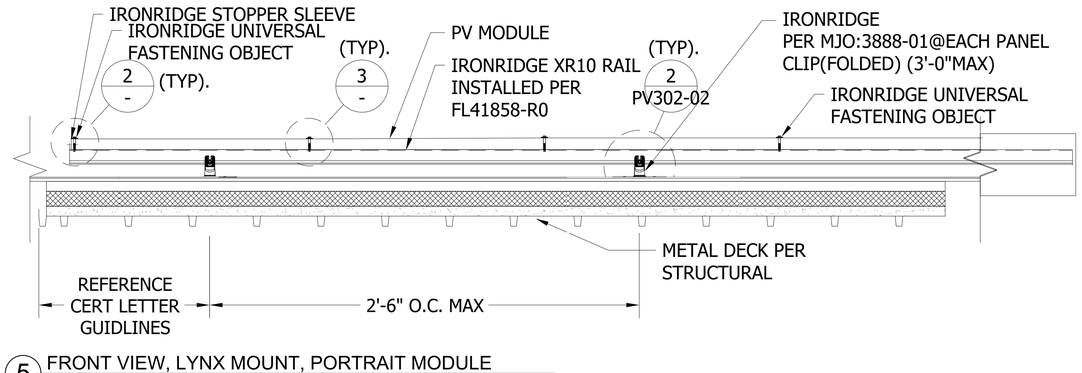
2 DETAIL, END CLAMP (UFO) FRONT
6" = 1'-0"



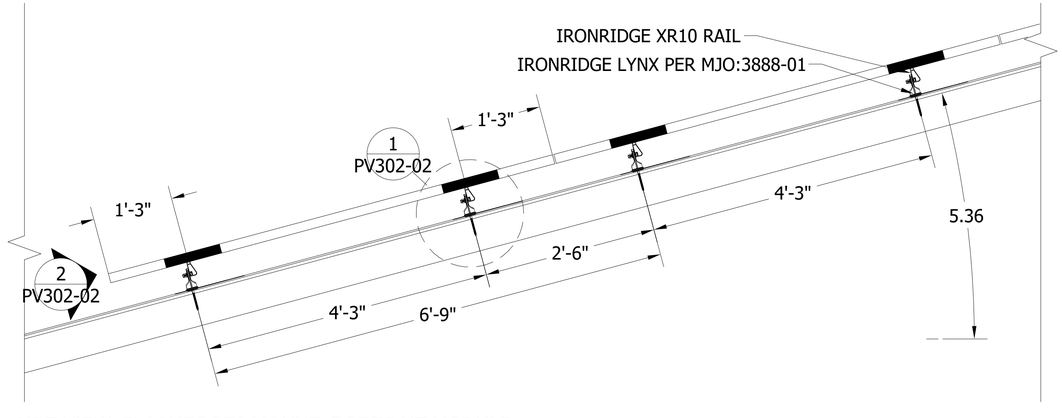
3 DETAIL, MID CLAMP FRONT
6" = 1'-0"



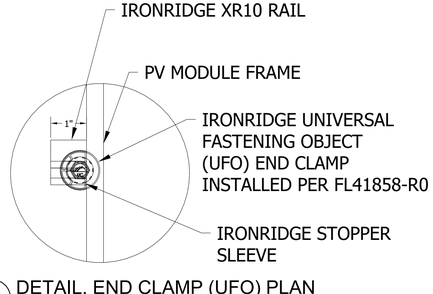
4 SL-1000 MOUNTING DETAIL
12" = 1'-0"



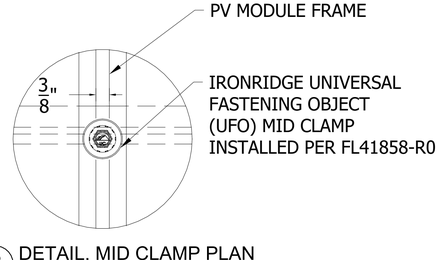
5 FRONT VIEW, LYNX MOUNT, PORTRAIT MODULE
1" = 1'-0"



6 SIDE VIEW, FLASHFOOT2 MOUNT, PORTRAIT MODULE
1" = 1'-0"



7 DETAIL, END CLAMP (UFO) PLAN
6" = 1'-0"



8 DETAIL, MID CLAMP PLAN
6" = 1'-0"

NOTES FOR THE CONNECTING DEVICE TO SSMR PER DSA IR 16-8 SECTION § 5.1.2:

1. FIELD QUALITY CONTROL TESTING SHALL BE PERFORMED FOR THE PV MODULE ANCHORAGE (IRONRIDGE LYNX CLIP) BY A DSA ACCEPTED LABORATORY EVALUATION ACCEPTANCE (LEA) LABORATORY APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER OF RECORD (SEOR) FOR THE PROJECT.
2. TEST LOAD RATE SHALL BE PER ICC-ES AC428 SEC. 3.2.5
   A MINIMUM OF 20 CONSECUTIVE DEVICES SHALL BE TESTED TO 551 LBS. IF THERE IS NO FAILURE IN 20 CONSECUTIVE TESTS, IT SHALL BE PERMITTED TO TEST 10 PERCENT OF THE REMAINING INSTALLED CONNECTING DEVICES.
3. IF FAILURE OCCURS BEFORE 20 CONSECUTIVE SUCCESSFUL TESTS ARE COMPLETED, THEN ADDITIONAL TESTS SHALL BE PERFORMED UNTIL 20 CONSECUTIVE TESTS ARE COMPLETED, THEN CONTINUE AT A RATE OF 10 PERCENT OF THE REMAINING INSTALLED DEVICES.

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

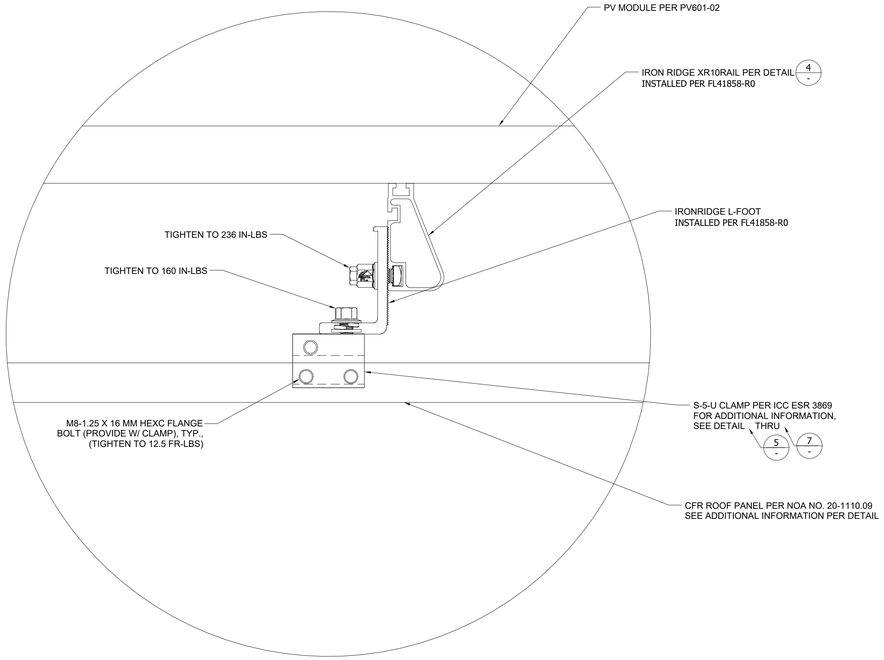
REVISIONS

REV	ISSUE	DATE	TO

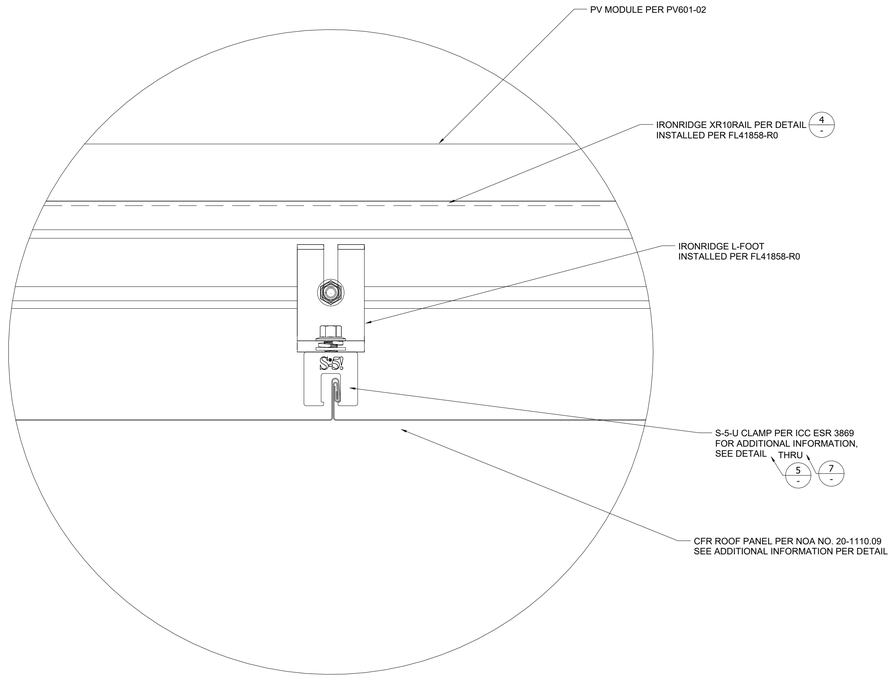
PHASE
DSA SUBMITTAL

SHEET TITLE
PV DETAILS

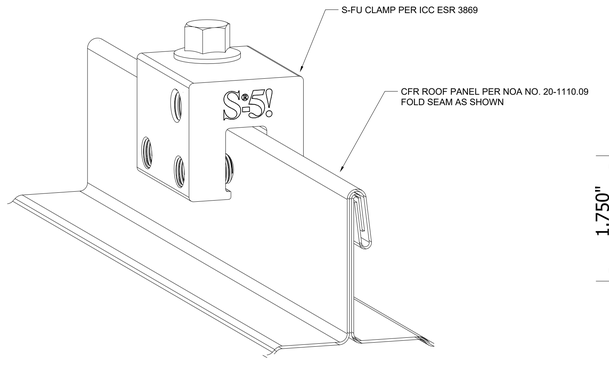
SHEET NUMBER:
PV301-02



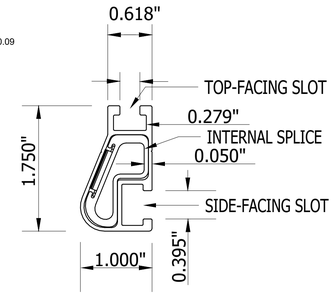
1 SIDE STANDOFF DETAIL
6" = 1'-0"



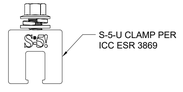
2 FRONT STANDOFF DETAIL
6" = 1'-0"



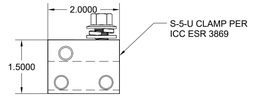
3 S-5-U ASSEMBLY
6" = 1'-0"



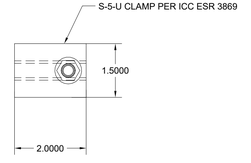
4 IRON RIDGE XR10 RAIL
12" = 1'-0"



5 S-5-U ASSEMBLY, SIDE VIEW
6" = 1'-0"



6 S-5-U ASSEMBLY, FRONT VIEW
6" = 1'-0"



7 S-5-U ASSEMBLY, PLAN VIEW
6" = 1'-0"

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MCSD - 26TH ST.

CLIENT:
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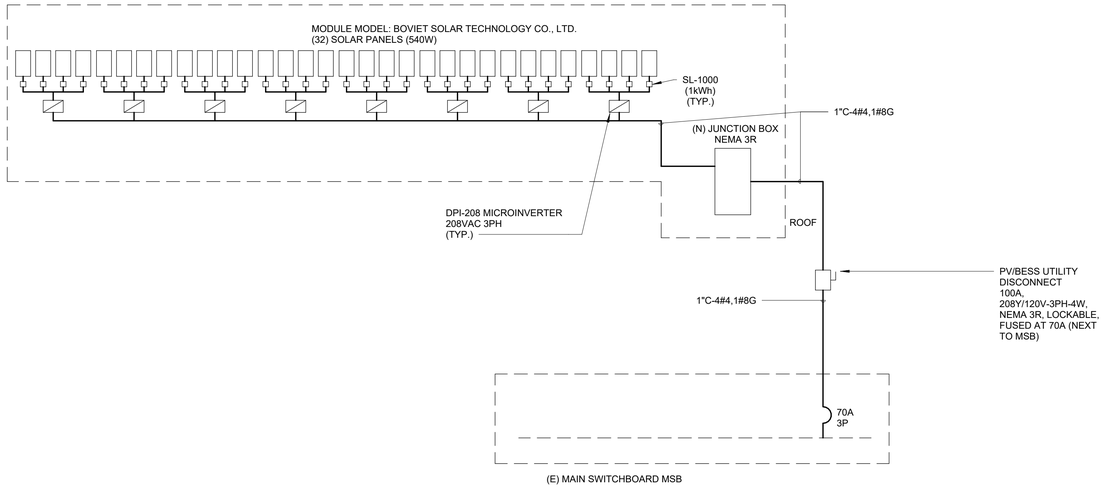
REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
PV DETAILS

SHEET NUMBER:
PV302-02



1 SINGLE LINE - PV
NO SCALE

Conductor Sizing Calculations													Terminal Temperature Rating Consideration					
Circuit Description	Current (A)	Imax (690.8(A))	Icont((690.8(B)(2)(a)calc)	Specified Conductor	Ampacity @90 Deg	Ambient Temp C	Current Carrying Conductor	Cond. Of Use Applied (690.8(B)(2)(b) calc)	vs Imax (690.8(a))	OCPD	Circuit Length	Voltage Drop %	Circuit Description	Current (A)	Temp Terminal Rating	Icont	Specified Conductor	Ampacity Terminal
From microninverter to J-Box	52.1	52.1	52.1 x 1.25= 65.12A	#4 AWG (CU)	95A	39 Deg	3	75A x 0.91 x 1.0= 68.3A	> Imax	70	50 ft	1.57%	From microinverter J-Box	52.1	75 Deg C	52.1 x 1.25= 65.12A	#4AWG (CU)	85A
From J-Box to Panel B	52.1	52.1	52.1 x 1.25= 65.12A	#4 AWG (CU)	95A	39 Deg	3	75A x 0.91 x 1.0= 68.3A	> Imax	70	60 ft	1.87%	From J-Box to Panel B	52.1	75 Deg C	52.1 x 1.25= 65.12A	#4AWG (CU)	85A

SIGNAGE NOTES:
1. ARTICLES 690 AND 705 MARKINGS SHOWN HEREON
2. ALL MARKINGS SHALL CONSIST OF THE FOLLOWING:
 A. UV RESISTANT SIGN MATERIAL WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO-PLATING
 B. RED BACKGROUND COLOR WITH WHITE TEXT AND LINE WORK UON
 C. ARIAL FONT
3. ALL SIGNS SHALL BE SIZED APPROPRIATELY AND PLACED IN THE LOCATIONS SPECIFIED.
4. SIGNS SHALL BE ATTACHED TO THE SERVICE EQUIPMENT USING PERMANENT ADHESIVE.

CONDUIT RACEWAYS

PHOTOVOLTAIC POWER SOURCE

CODE: PER NEC 690.31(D)(2)

AC DISCONNECT
MAIN SERVICE PANEL

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

CODE: PER NEC 706.15(C)(4)
NEC 690.13(B)

MAIN SERVICE PANEL

⚠ WARNING
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

CODE: PER NEC 110.27(C)
& OSHA 1910.145(F)(7)

MAIN SWITCHBOARD

⚠ WARNING
TRI POWER SUPPLY
SOURCES: UTILITY GRID,BATTERY AND PV SOLAR ELECTRIC SYSTEM

JUNCTION BOX
PV LOAD CENTER

⚠ WARNING
TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

CODE: PER NEC 110.27(C)
& OSHA 1910.145(F)(7)

JUNCTION BOX
PV LOAD CENTER

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

CODE: PER NEC 706.15(C)(4)
NEC 690.13(B)

AC DISCONNECT

PHOTOVOLTAIC
AC DISCONNECT

CODE: PER NEC 690.13(B)

CONDUIT, CABLES,
PULL BOXES,J-BOX

⚠ WARNING
RACEWAY IS ENERGIZED WHEN IN THE OPEN POSITION. DO NOT RELOCATE OR CUT

AC DISCONNECT
MAIN SERVICE PANEL

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

CODE: PER NEC 690.56(C)(2)

MAIN SERVICE PANEL

DO NOT DISCONNECT UNDER LOAD

CODE: PER NEC 690.15(B) &
NEC 690.33(D)(2)

AC DISCONNECT

PHOTOVOLTAIC AC DISCONNECT
RATED AC OUTPUT CURRENT 148.8A
NOMINAL OPERATING AC VOLTAGE 208V

CODE: PER NEC 690.54

PV LOAD CENTER

⚠ WARNING
PHOTOVOLTAIC SYSTEM COMBINER PANEL
DO NOT ADD LOADS

MAIN SERVICE PANEL
NEXT TO PV/BATTERY BREAKER

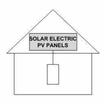
⚠ WARNING
POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.

CODE: PER NEC 705.12 (B)(3)(2)

MAIN SERVICE PANEL

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF"POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

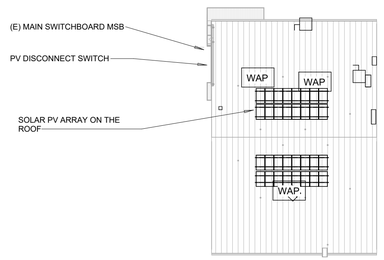


CODE: PER NEC 605.11.3.1(1)
& NEC 690.56(C)

GENERAL NOTES:
1.UTILITY IS 208Y/120V 3Ø 4W
2.PV SYSTEM IS UTLITY INTERACTIVE
3.INVERTER IS FULLY COMPLIANT WITH CEC 690.59 CONCERNING LACK OF INTERACTIVESYSTEM POWER.
4.ALL PV SYSTEM COMPONENTS SHALL BE LISTED BY A RECOGNIZED TESTING AGENCY.
5.WIRING MATERIAL SHALL BE SUITABLE FOR THE SUN EXPOSURE AND WETLOCATIONS. ENERGIZED IN THE OPEN POSITION."
6.CRIMP-ON TERMINALS LISTED AND INSTALLED WITH LISTED CRIMPING TOOLS BY THE SAME MANUFACTURER.
7.USER ACCESSIBLE FUSES IN "TOUCH-SAFE"HOLDERS OR CAPABLE OF BEING CHANGED WITHOUT TOUCHING LIVE CONTACTS.
8 CONDUITS MOUNTED 1 1/2" OFF THE HEIGHT OF ROOF DECK

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECT(S) LOCATED AS SHOWN. DANGEROUSE VOLTAGE MAY BE PRESENT AT ALL TIMES.



"**WARNING**"
PHOTOVOLTAIC ARRAY
DISCONNECTION OF NEUTRAL OR GROUND CONDUCTORS MAY RESULT IN OVERVOLTAGE ON ARRAY OR INVERTER

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CLIENT:
MERCED CITY SCHOOL DISTRICT

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PHASE
DSA SUBMITTAL

SHEET TITLE
SINGLE LINE DIAGRAM

SHEET NUMBER:
PV401-02

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: Merced City School District	**Report Page:** (Page 1 of 6)
Project Address: 26th St	**Date Prepared:** 4/24/2025

A. GENERAL INFORMATION

01	Project Location (city)	Merced	04	Building Occupancies	All Other Occupancies
02	Climate Zone	12	05	Construction Type	New construction
03	Conditional Floor Area (ft²)	9810	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

01		
☒	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)	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.	

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Merced City School District	**Report Page:** (Page 2 of 6)
	Date Prepared: 4/24/2025

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).

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		03		04		05		06		07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
	<=		OR	16,254	<=	17,200	OR		<=		OR			
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).														
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table 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: Merced City School District	**Report Page:** (Page 3 of 6)
	Date Prepared: 4/24/2025

F. ALLOCATED SOLAR ZONE

This section does not apply to this project.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Merced City School District	**Report Page:** (Page 4 of 6)
	Date Prepared: 4/24/2025

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System

01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof[1] (ft²)	Roof Area < 70% Solar Access[2] (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area[3] (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
School or Classroom	11,750	1,161	0		0	1,161	16.25
					Total Min Size PV System Required for all Spaces (kWdc):		16.25
					Total Size PV System in Design (kWdc):		17.2

[1]*FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.*
[2]*Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.*
[3]*As specified by CBC Section 503.1.4.*

Battery Storage System

01	02	03	04	05
Space Type	Min Size of PV System Required (kWdc)	Rated Single Charge-Discharge AC Efficiency of Battery System[1]	Min Battery Rated Energy Capacity Required (kWh)	Min Power Capacity of Battery Required (kWdc)
School or Classroom	16.25	95	31.99	7.48
	Total Min Energy (kWh) and Power (kW) Capacity Required		31.99	7.48
	Total Energy (kWh) and Power (kW) Capacity in Design		40	15

[1]*FOOTNOTE: Rated single charge-discharge cycle AC to AC (round trip) efficiency of the battery storage system*

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: Merced City School District	**Report Page:** (Page 5 of 6)
	Date Prepared: 4/24/2025

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 ExceptionalConditionMessageCCSABE += UserChangedSelectionInCI. 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.

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: Merced City School District	**Report Page:** (Page 6 of 6)
Project Address: 26th St	**Date Prepared:** 4/24/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Gerald Gonzales	Documentation Author Signature:
Company: Belden Consulting Engineers	Signature Date:
Address: 4457 Willow Road, Suite 100	CEA/ HERS Certification Identification (if applicable): E16961
City/State/Zip: Pleasanton CA 94588	Phone:

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: Gerald Gonzales	Responsible Designer Signature:
Company: Belden Consulting Engineers	Date Signed: 2025-04-24
Address: 6700 Koll Center Parkway, Suite 300	License: E16961
City/State/Zip: Pleasanton CA 94566	Phone:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123377 INC: 02
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2026

yc+d ARCHITECTURE
712 BANCROFT ROAD #297
WALNUT CREEK, CA 94598
T: (925) 979-5178
E: HELLO@YCPLUSD.COM

ARCHITECT'S SEAL:

CONSULTANT:

BELDEN CONSULTING ENGINEERS
6700 Koll Center Parkway, Suite 300
Pleasanton, California 94566
phone: (925) 621-5300 fax: (925) 203-5758
belden@beldeninc.com
25039 / MM

CONSULTANT'S SEAL:

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PROJECT:
MARS/ELO-P FACILITY
MCSD - 26TH ST.

CLIENT:
MERCED CITY SCHOOL DISTRICT

REVISIONS

REV	ISSUE	DATE	TO

PHASE
DSA SUBMITTAL

SHEET TITLE
TITLE 24

SHEET NUMBER:
PV501-02

12/18/2025 10:01:40 AM© YC+D, 2023 - CONFIDENTIAL AND PROPRIETARY INFORMATION THE EXCLUSIVE PROPERTY OF YC+D.

DPI-208/480

3-Phase Microinverters

YOTTA ENERGY

Yotta's **Dual Power Inverters (DPI-208 and DPI-480)** are native 3-phase microinverters that each support **four high capacity solar modules** and deliver outstanding **performance**. The internals are protected with silicone to **reduce stress** on the electronics, increase its **waterproof** properties, **dissipate heat,** and to provide **maximum system reliability**. Yotta's DPI-208 and DPI-480 are powerful **plug-and-play** MLPE inverters that install faster than any other solution in the market and comply with **rapid shutdown requirements**. Their design improves **thermal dissipation** while maximizing **power production**.

- **DPI** (Dual Power Inverter) designed to work with PV or Yotta's **SolarLEAF** energy storage technology
- **Native 3-phase power output (208V or 480V)**
- **Low Voltage** DC input (<60V)
- **4 Solar Module Input Channels, 2 MPPT's**
- **Continuous** AC output power **1728VA @208V** and **1800VA @480V**
- **Engineered** for high-capacity PV modules
- **Maximum** input current 20A
- Integrated **Safety Protection Relay**
- **Rapid Shutdown Compliant**
- **Adjustable Power Factor**

3 PHASE GRID

208 OR 480V OUTPUT VOLTAGE

PLUG & PLAY & STORAGE READY

RAPID SHUTDOWN COMPLIANT

SAFETY PROTECTION RELAY

ADJUSTABLE POWER FACTOR

ADVANCED THERMAL DESIGN TECHNOLOGY

REMOTE DIAGNOSIS

YottaVision Monitoring

- **Monitors** and **Analyzes** each solar module and micro-inverter
- Allows **Remote Access** to the solar array
- Displays **Performance Issues** and alerts the user to events
- **Real Time Communication**
- **Graphs** system solar output over time to boost troubleshooting

Yotta HQ
Normal
Normal
Normal