

VICINITY MAP

FRESNO COUNTY ENVIRONMENTAL COMPLIANCE CENTER PHASE 3 - WAREHOUSE BUILDING

310 S. West Avenue
Fresno CA, 93706

PROJECT DATA:

PROJECT NAME:
FRESNO COUNTY ENVIRONMENTAL COMPLIANCE CENTER WAREHOUSE BUILDING

ADDRESS:
310 S. WEST AVENUE, FRESNO, CA. 93706

APN: 458-060-72

SITE AREA: 2.68 ACRE
(SITE WORK IS SUBMITTED UNDER SEPARATE PERMIT)

WAREHOUSE BUILDING AREA: 2,400 SF.
WAREHOUSE BUILDING OVERHANG AREA: 1,030 SF.

TOTAL BUILDING AREA: 3,430 SF.

TYPE OF CONSTRUCTION: V-B (SPRINKLERED)

OCCUPANCY GROUP: STORAGE (S1/S2)

ZONING: M-1 LIGHT MANUFACTURING DISTRICT

SCOPE OF WORK:

THE WORK CONSISTS OF CONSTRUCTION OF A NEW 2400 SQUARE FEET WAREHOUSE BUILDING, SITE WORK AND OTHER BUILDINGS ON THE SITE ARE SUBMITTED UNDER SEPARATE PERMIT.

STRUCTURES UNDER SEPARATE PERMIT:

THE FOLLOWING STRUCTURES ARE SUBMITTED TO COUNTY OF FRESNO FOR APPROVAL AND ISSUANCE OF A SEPARATE PERMIT.

1. PHASE 1: SITE AND SHADE STRUCTURE
2. PHASE 2: OFFICE / STORAGE BUILDING

DEFERRED APPROVAL:

1. PREFABRICATED METAL BUILDING: CONTRACTOR TO SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY. PLANS TO INCLUDE ENGINEERING CALCULATIONS, ERECTION DRAWINGS AND ANCHOR BOLT PLACEMENT DIMENSIONS AND OTHER ITEMS REQUIRED FOR PERMIT. CONTRACTOR SHALL SUBMIT THE PLANS TO ARCHITECT FOR APPROVAL PRIOR TO SUBMITTING TO FRESNO COUNTY. SEE SPECIFICATIONS.
2. FIRE SPRINKLERS: CONTRACTOR TO SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY PRIOR TO INSTALLATION OF THE FIRE SPRINKLERS. LAYOUT AND DETAIL OF THE FIRE SPRINKLER SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND "FRESNO FIRE DEPARTMENT (FFD) PRIOR TO SUBMITTING THE PLANS TO FRESNO COUNTY. THE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR AND SHALL BE INSPECTED AND APPROVED BY THE APPROPRIATE FIRE MARSHALL PRIOR TO APPROVAL OF OCCUPANCY OF THE BUILDING. SEE SPECIFICATIONS.
3. FIRE ALARMS: CONTRACTOR SHALL SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY AND FRESNO FIRE DEPARTMENT FOR THE INSTALLATION OF FIRE ALARM SYSTEM. SEE SPECIFICATIONS. GENERAL CONTRACTOR SHALL COORDINATE FIRE ALARM SYSTEM INTERFACES BETWEEN FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.) ALL WORK MUST REMAIN VISIBLE AND MAY NOT BE COVERED UNTIL REQUIRED FIRE INSPECTIONS HAVE BEEN COMPLETED BY THE FIRE DEPARTMENT.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO STRICTLY COMPLY WITH DIMENSIONS ON THE DRAWINGS RELATING TO ACCESSIBILITY ELEMENTS, DIMENSIONS THAT DO NOT SPECIFY "MINIMUM" (MIN) OR "MAXIMUM" (MAX) TOLERANCES SHALL BE CONSIDERED AS "ABSOLUTE". MINIMUM AND MAXIMUM DIMENSIONS SHALL BE CONSIDERED THE ABSOLUTE TOLERANCE LIMITS. ACCESSIBILITY ELEMENTS INSTALLED THAT DO NOT COMPLY WITH DIMENSIONAL CONSTRAINTS SHALL BE REMOVED AND REINSTALLED WITH NO ADDITIONAL COST TO THE COUNTY OF FRESNO.
2. CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION SPECIFIC TO THE AREA OF CHANGE TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE ARCHITECT AND SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL [CBC 107].
3. THE CONTRACTOR SHALL PROVIDE (1) ONE NFPA CLASS 2A-10BC FIRE EXTINGUISHER AT THE JOB SITE DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WORK SITE IN A SECURED CONDITION.
5. CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFEGUARDS DURING CONSTRUCTION SHALL BE STRICTLY FOLLOWED.
6. THE APPROVAL OF THESE PLANS AND SPECIFICATIONS DOES NOT PERMIT THE VIOLATION OF ANY SECTION OF THE BUILDING CODE, MUNICIPAL ORDINANCES, OR STATE LAWS.
7. THESE APPROVED PLANS AND RELATED DOCUMENTS MUST BE AVAILABLE AT THE JOB SITE DURING ANY INSPECTION ACTIVITY.
8. SOILS AND SPECIAL CONCRETE TESTING SHALL BE CONDUCTED BY THE FRESNO COUNTY MATERIALS AND TESTING LABORATORY.
9. STEEL FABRICATION SPECIAL INSPECTION SHALL BE CONDUCTED BY KRAZAM AND ASSOCIATES, 215 WEST DAKOTA AVENUE CLOVIS, CA 93612 (554-348 2200)
10. CONTRACTOR SHALL PROVIDE A CHEMICAL TOILET ON SITE DURING CONSTRUCTION.

FRESNO FIRE DEPARTMENT NOTES:

1. SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE SPRINKLER SYSTEM. INSTALLATIONS MUST ALSO COMPLY WITH FFD POLICY SECTION 405. FFD POLICIES CAN BE FOUND ON THE FIRE DEPARTMENT WEBSITE UNDER FIRE PREVENTION & INVESTIGATION, FIRE DEPARTMENT POLICIES.
2. SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE ALARM SYSTEM. SEE FFD POLICY 401.012.
3. THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.). ALL WORK MUST REMAIN VISIBLE AND MAY NOT BE COVERED UNTIL THE REQUIRED FIRE INSPECTIONS HAVE BEEN COMPLETED BY THE FIRE DEPARTMENT.
4. EMERGENCY ALARM SYSTEM INTERCONNECTION REQUIREMENTS: WHERE AN EMERGENCY ALARM SYSTEM IS REQUIRED BY THIS SECTION AND A BUILDING FIRE ALARM IS INSTALLED, THE EMERGENCY ALARM SYSTEM SHALL BE INTERCONNECTED WITH AND SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM, FMC 10-50408.4 AND NFPA SECTIONS 10.7 AND 10.10, IF APPLICABLE.
5. ALL WEATHER ACCESS ROADS SHALL BE INSTALLED AND MAINTAINED IN A SERVICEABLE CONDITION PRIOR TO AND DURING CONSTRUCTION. (FFD DEVELOPMENT POLICY 403.002)
6. ADDRESS IDENTIFICATION, FOR NEW AND EXISTING BUILDINGS, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE APPROVED ADDRESS OR BUILDING IDENTIFICATION SIGNAGE AS NEEDED TO READILY DETERMINE THE BUILDING OR AREA OF A BUILDING PROTECTED BY FIRE DEPARTMENT CONNECTIONS. FMC SECTION 10-50412.2.3.

CODE CITATIONS:

THE LATEST ADOPTED ADDITIONS OF THE CODES, STANDARDS AND REGULATIONS REQUIRED BY THE LOCAL JURISDICTION SHALL GOVERN ALL WORK IN THESE CONSTRUCTION DOCUMENTS INDICATED BY THE FOLLOWING.

APPLICABLE STATE CODES:

- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- TITLE 24 CCR, PART 1 - 2019 BUILDING STANDARDS ADMINISTRATIVE CODE
- TITLE 24 CCR, PART 2 - 2019 CALIFORNIA BUILDING CODE (CBC)
- TITLE 24 CCR, PART 3 - 2019 CALIFORNIA ELECTRICAL CODE (CEC)
- TITLE 24 CCR, PART 4 - 2019 CALIFORNIA MECHANICAL CODE (CMC)
- TITLE 24 CCR, PART 5 - 2019 CALIFORNIA PLUMBING CODE (CPC)
- TITLE 24 CCR, PART 6 - 2019 CALIFORNIA ENERGY CODE
- TITLE 24 CCR, PART 9 - 2019 CALIFORNIA FIRE CODE (CFC)
- TITLE 24 CCR, PART 11 - 2019 CALIFORNIA GREEN BUILDING STANDARDS
- TITLE 24 CCR, PART 12- 2019 CALIFORNIA REFERENCED STANDARDS

APPLICABLE CODE OF ORDINANCE:

COUNTY OF FRESNO ORDINANCE TITLE 15

APPLICABLE REFERENCE STANDARDS:

- 2019 NFPA 13, AUTOMATIC SPRINKLER SYSTEMS (GA AMENDED)
- 2019 NFPA 72, NATIONAL FIRE ALARM CODE (GA AMENDED); SEE UL STD. 1911 FOR "VISUAL DEVICES"

SHEET INDEX:

60.0 COVER

ARCHITECTURAL SHEETS 10 SHEETS

- A1.1 REFERENCE OVERALL SITE PLAN (SUBMITTED AS PHASE 1)
- A1.2 REFERENCE ENLARGED SITE PLAN (SUBMITTED AS PHASE 1)
- A2.1 FLOOR PLAN & ELEVATIONS
- A2.2 REFLECTED CEILING PLAN & SECTIONS
- A3.1 FINISH SCHEDULE
- A3.2 DOOR SCHEDULE & WINDOW ELEVATION
- A3.3 DETAILS
- A4.1 CALGREEN COMPLIANCE SHEET 1
- A4.2 CALGREEN COMPLIANCE SHEET 2
- A4.3 CALGREEN COMPLIANCE SHEET 3

STRUCTURAL SHEETS 5 SHEETS

- S1.1 STRUCTURAL NOTES
- S1.2 STRUCTURAL NOTES
- S2.1 FOUNDATION PLAN
- S2.2 ROOF FRAMING PLAN
- S3.1 STRUCTURAL DETAILS

PLUMBING SHEETS 3 SHEETS

- P1.3 WAREHOUSE BUILDING PLUMBING PLAN
- P2.0 WAREHOUSE PLUMBING SCHEDULES AND DETAILS
- P2.1 WAREHOUSE BUILDING RISER DETAILS

MECHANICAL SHEETS 3 SHEETS

- M1.0 WAREHOUSE BUILDING MECHANICAL PLAN
- M2.0 WAREHOUSE MECHANICAL SCHEDULES AND DETAILS
- M2.1 MECHANICAL SCHEDULES AND DETAILS

ELECTRICAL SHEETS 5 SHEETS

- E1.1 ELECTRICAL NOTES AND SYMBOLS
- E1.2 LIGHTING SCHEDULES AND DETAILS
- E1.3 POWER DETAILS AND SCHEDULES
- E1.4 TITLE 24 COMPLIANCE DOCUMENTS
- E2.1 WAREHOUSE BUILDING ELECTRICAL PLANS

TOTAL: 27 SHEETS

CONTRACT DOCUMENTS:

ARCHITECT OF RECORD:

TIANA L. PEREZ, ARCHITECT

CALIFORNIA LICENSED ARCHITECT NO. C-38000
REN. 01-31-23
FRESNO COUNTY DEPARTMENT OF PUBLIC WORKS & PLANNING
DEVELOPMENT SERVICES AND CAPITAL PROJECTS DIVISION
2220 TULARE STREET, EIGHTH FLOOR
FRESNO, CALIFORNIA 93721
OFFICE: (554) 600-4536
E-MAIL: TPerez@fresnocounty.ca.gov

CONSULTANTS:

CIVIL / LANDSCAPE
ENGINEER OF RECORD:

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DANIEL ZOLDAK
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4694 W. JAGGUELYN AVE.
FRESNO CA, 93722
OFFICE: 554-216-2190
E-MAIL: LAINFO@LARSANDERSEN.COM

STRUCTURAL
ENGINEER OF RECORD:

556 STRUCTURAL ENGINEERS, LLP
MICHAEL PAROLINI
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2405 NORTH FRESNO STREET, SUITE 120
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OFFICE: 554-434-2120
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**MECHANICAL / PLUMBING
ENGINEER OF RECORD:**

LAWRENCE ENGINEERING GROUP
MICHAEL CANTEMI
LIC.# 123558
1084 NORTH MAPLE AVENUE, SUITE 101
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E-MAIL: MIKE@LEGFRESNO.COM

**ELECTRICAL
ENGINEER OF RECORD:**

HARDIN DAVIDSON ENGINEERING
SCOTT DAVIDSON
LIC.# E11850
356 FOLLASKY AVENUE SUITE 200
CLOVIS CA, 93612
OFFICE: 554-323-4495
E-MAIL: SD@HARDIN-DAVIDSON.COM

ARCHITECTURAL CONSULTANT:

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1245 N. WISHON AVE. SUITE 101
FRESNO CA, 93728
OFFICE: 554-447-6370
E-MAIL: ADYSON@DYSONJANZEN.COM

The Information on this Drawing is acceptable and shall define the Scope of Work to develop this Project. Any significant changes to the Scope of Work shall be approved by the Client Department.

Submitted by: _____

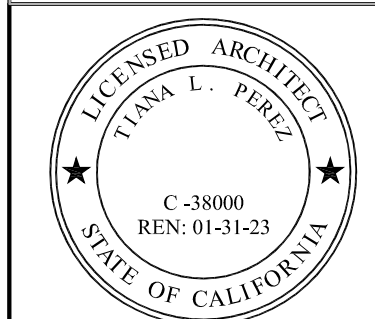
Title: _____

Date: _____

Accepted by: _____

Title: _____

Date: _____



ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
REN. 01-31-23
Fresno County Department of Public Works & Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
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Office: (559) 600-4536
E-mail: tperez@fresnocounty.ca.gov

Project:
Fresno County
Environmental Compliance Center
Phase 3: Warehouse Building

Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
Cover Sheet

Fresno County Department of Public Works and Planning
Capital Projects

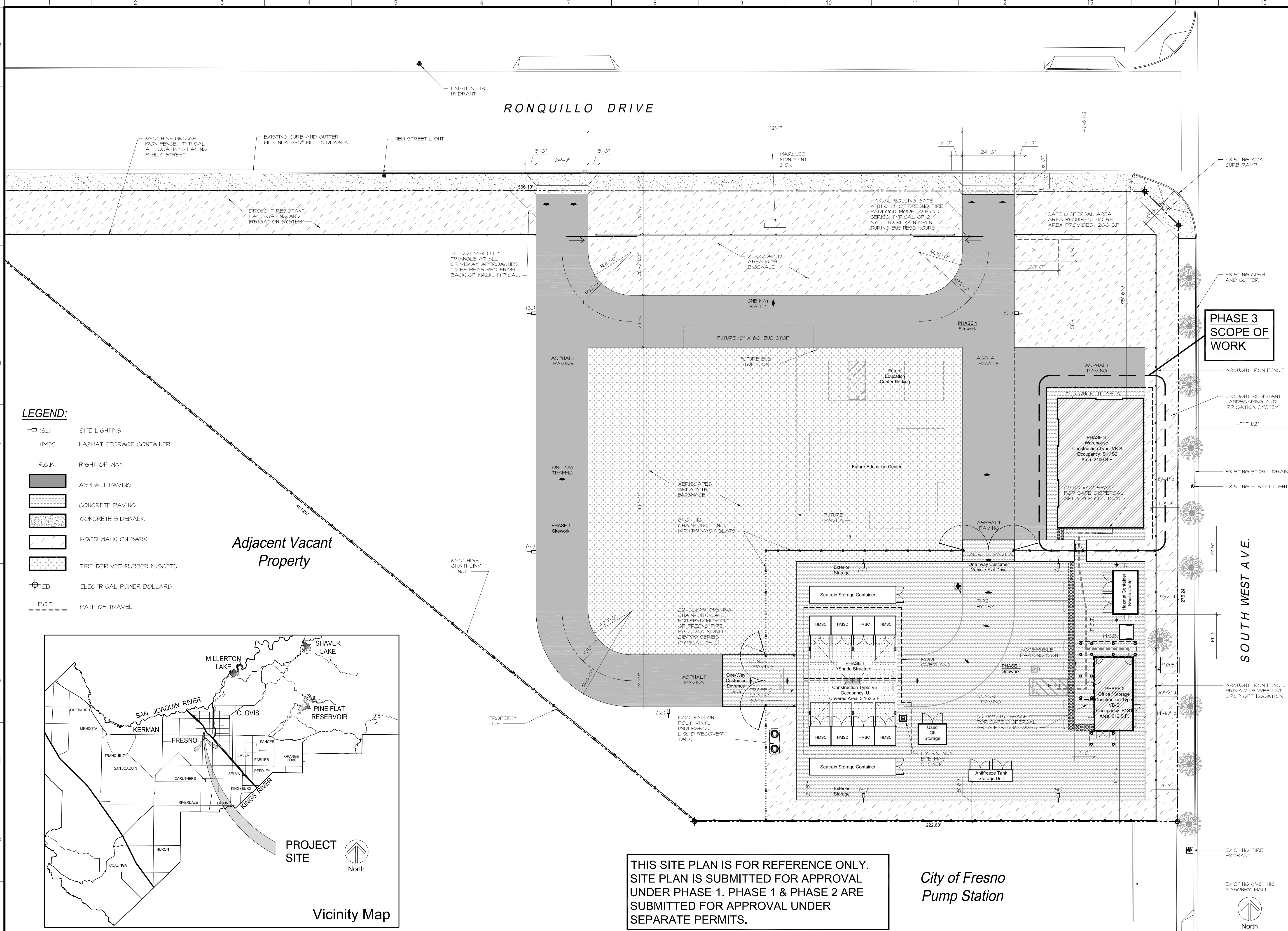


2220 Tulare Street, 8th Floor
Fresno, California 93721

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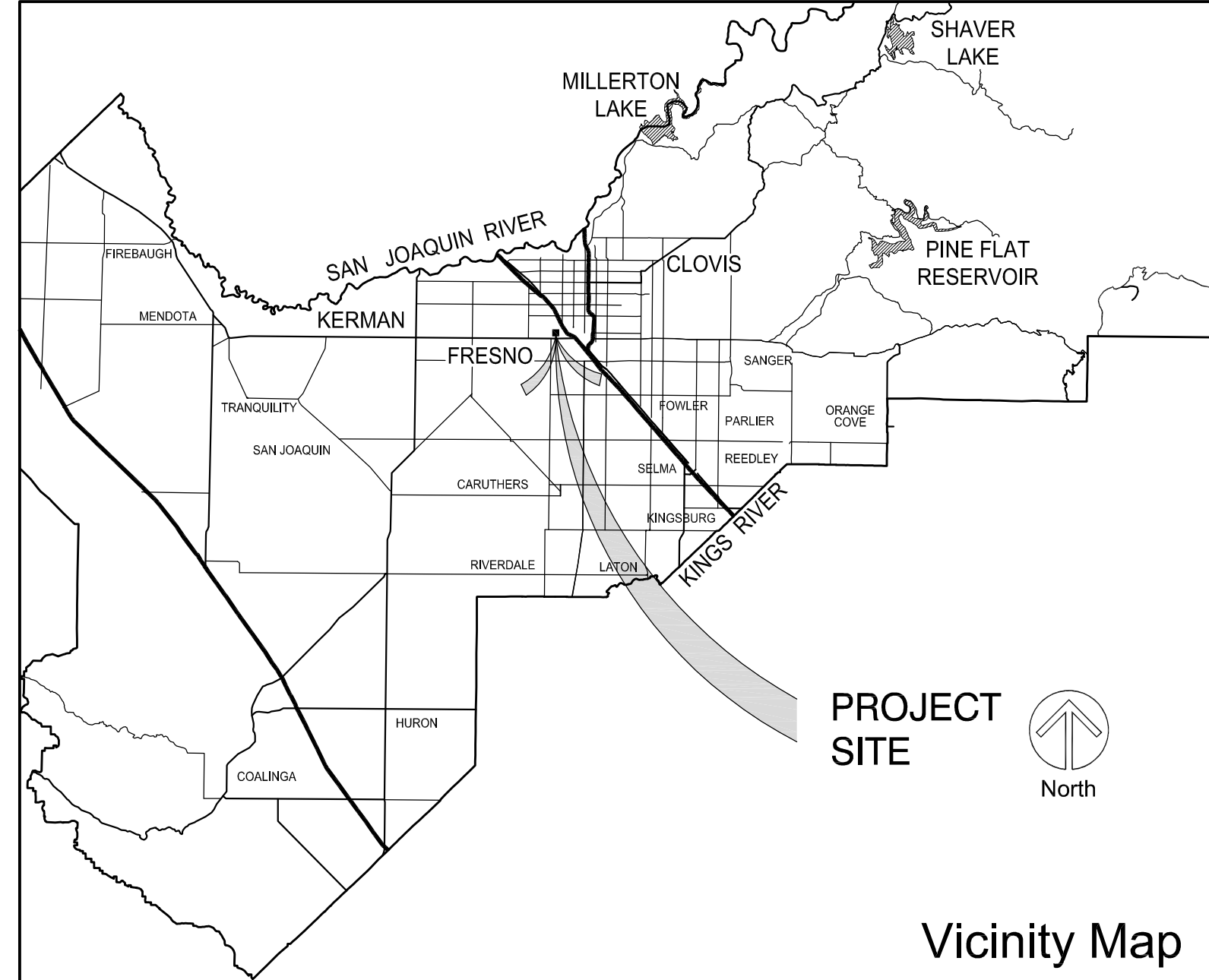
FRESNO FIRE NOTES:

- TURNS IN PRIVATE DRIVES FOR FIRE APPARATUS ACCESS SHALL HAVE MINIMUM 44'-0" CENTERLINE TURN RADIUS.
- EMERGENCY VEHICLES ACCESS SHALL BE DESIGNATED BY PAINTING THE CURB RED (TOP AND SIDE) AND STENCILING FIRE LANE NO PARKING IN 3 INCHES WHITE LETTERS ON THE MOST VERTICAL CURB, AT LEAST EVERY 50 FEET. IF NO CURB IS PRESENT, A MINIMUM 6 INCHES WIDE RED STRIPE SHALL BE PAINTED ALONG THE EDGE OF THE ROADWAY WITH "FIRE LANE" IN 3 INCHES WHITE LETTERS AT LEAST EVERY 50 FEET. (FFD DEVELOPMENT POLICY 403.005)
- PROVIDE APPROVED POLICE/FIRE BY PASS ("BEST") PADLOCK MODEL 2B100 SERIES OR ELECTRIC CYLINDER SWITCH MODEL INTB2) ON DRIVE ACCESS GATES. ALL ELECTRIFIED SHALL BE EQUIPPED WITH BEST ELECTRIC CYLINDER LOCK INTB2. A KNOX PADLOCK MAY NOT BE USED IN PLACE OF THE BEST PADLOCK MODEL 2B100. THESE LOCKS CAN BE PURCHASED ONLY THROUGH SIERRA LOCK AND GLASS, 1560 N. PALM AVENUE, FRESNO CA 93728.
- PROVIDE SIGNS 17"X22" MINIMUM AT ALL PUBLIC ENTRANCE DRIVES TO THE PROPERTY WHICH STATE "WARNING - VEHICLES STOPPED, PARKED OR LEFT STANDING IN FIRE LANES WILL BE IMMEDIATELY REMOVED AT OWNER'S EXPENSE - 22656(A) CALIFORNIA VEHICLE CODE - FRESNO POLICE DEPARTMENT 621-2300".
- FIRE HYDRANTS AND ACCESS ROADS SHALL BE INSTALLED, TESTED AND APPROVED AND SHALL BE MOUNTED SERVICEABLE PRIOR TO AND DURING ALL PHASES OF DEVELOPMENT THE 4 1/2 INCH OUTLET SHALL FACE THE ACCESS LANE.
- THE PROPOSED ON SITE HYDRANTS SHALL BE EQUIPPED WITH AN 8 INCH MAIN AND A FIRE FLOW OF 1500 GPM.



LEGEND:

	SITE LIGHTING
	HAZMAT STORAGE CONTAINER
	RIGHT-OF-WAY
	ASPHALT PAVING
	CONCRETE PAVING
	CONCRETE SIDEWALK
	WOOD WALK ON BARK
	TIRE DERIVED RUBBER NUGGETS
	ELECTRICAL POWER BOLLARD
	PATH OF TRAVEL



THIS SITE PLAN IS FOR REFERENCE ONLY. SITE PLAN IS SUBMITTED FOR APPROVAL UNDER PHASE 1. PHASE 1 & PHASE 2 ARE SUBMITTED FOR APPROVAL UNDER SEPARATE PERMITS.

City of Fresno
Pump Station

LICENSED ARCHITECT
TIANA L. PEREZ
C-38000
REN: 01-31-23
STATE OF CALIFORNIA

ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
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Sheet Content:
Overall Site plan

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A1.1

THIS SITE PLAN IS FOR REFERENCE ONLY. SITE PLAN IS SUBMITTED FOR APPROVAL UNDER PHASE 1. PHASE 1 & PHASE 2 ARE SUBMITTED FOR APPROVAL UNDER SEPARATE PERMITS.

- GENERAL NOTES:**
1. SWING GATES AT BOTH ENTRY AND EXIT GATE LOCATIONS SHALL BE EQUIPPED WITH A CITY OF FRESNO FIRE DEPARTMENT LOCK.
 2. THERE SHALL BE NO VERTICAL OFFSET GREATER THAN 1/2" ALONG THE ENTIRE PATH OF TRAVEL FROM THE PUBLIC WAY/ACCESSIBLE PARKING STALL INTO THE OFFICE BUILDING OR TOILET BUILDING.
 3. ENTIRE SURFACE BETWEEN CONCRETE SLAB AND FENCE SHALL BE 2" MINIMUM GRAVEL (CLASS II AGGREGATE) OVER 10 MIL. BLACK VISQUEEN. VISQUEEN SHALL BE LAPPED A MINIMUM OF 36" INCHES AT SEAMS. VISQUEEN SHALL BE LAID OVER MACHINE COMPACTED SOIL FOLLOWING GRADES SHOWN ON CIVIL DRAWINGS. VISQUEEN SHALL NOT BE VISIBLE ONCE GRAVEL HAS BEEN PLACED. COMPACTION TESTING WILL NOT BE REQUIRED.
 5. NO HAZARDOUS MATERIALS TO BE STORED OR USED IN THE BUILDINGS.
 6. THIS PERMIT DOES NOT INCLUDE ANY HIGH-STORAGE (PER CFC) OR RACK STORAGE OVER 8 FEET IN HEIGHT. ANY SUCH PROPOSED STORAGE WILL REQUIRE SUBMITTAL OF PLANS AND APPLICATION FOR PERMIT(S). 2019 CFC, CHAPTER 32.

- LEGEND:**
- (SL) SITE LIGHTING
 - HMSC HAZMAT STORAGE CONTAINER
 - R.O.W. RIGHT-OF-WAY
 - ASPHALT PAVING
 - CONCRETE PAVING
 - WOOD WALK ON BARK
 - TIRE DERIVED RUBBER NUGGETS
 - EB ELECTRICAL POWER BOLLARD
 - P.O.T. PATH OF TRAVEL

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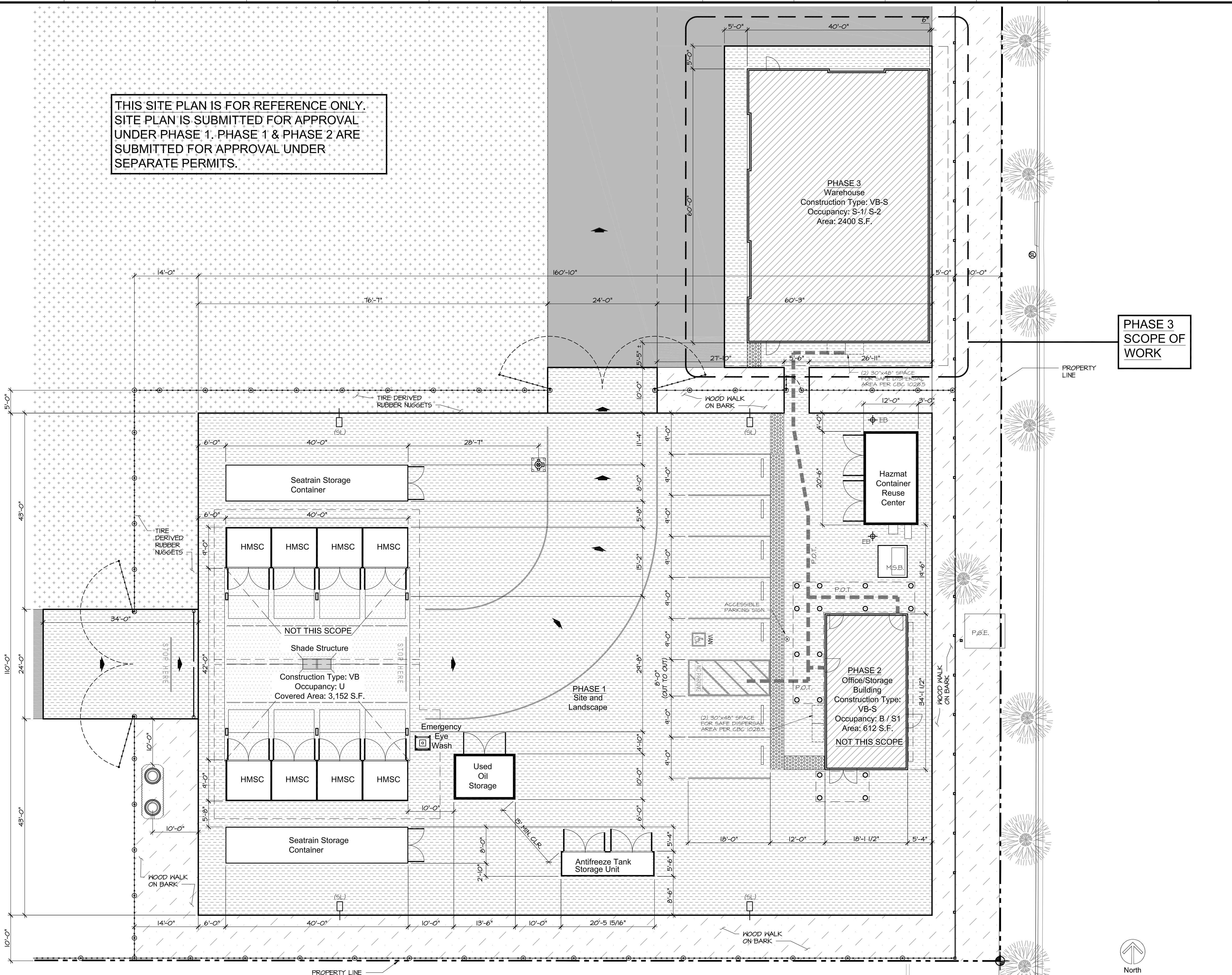
Sheet Content:
 Enlarged Site plan

Fresno County Department of
 Public Works and Planning
 Capital Projects

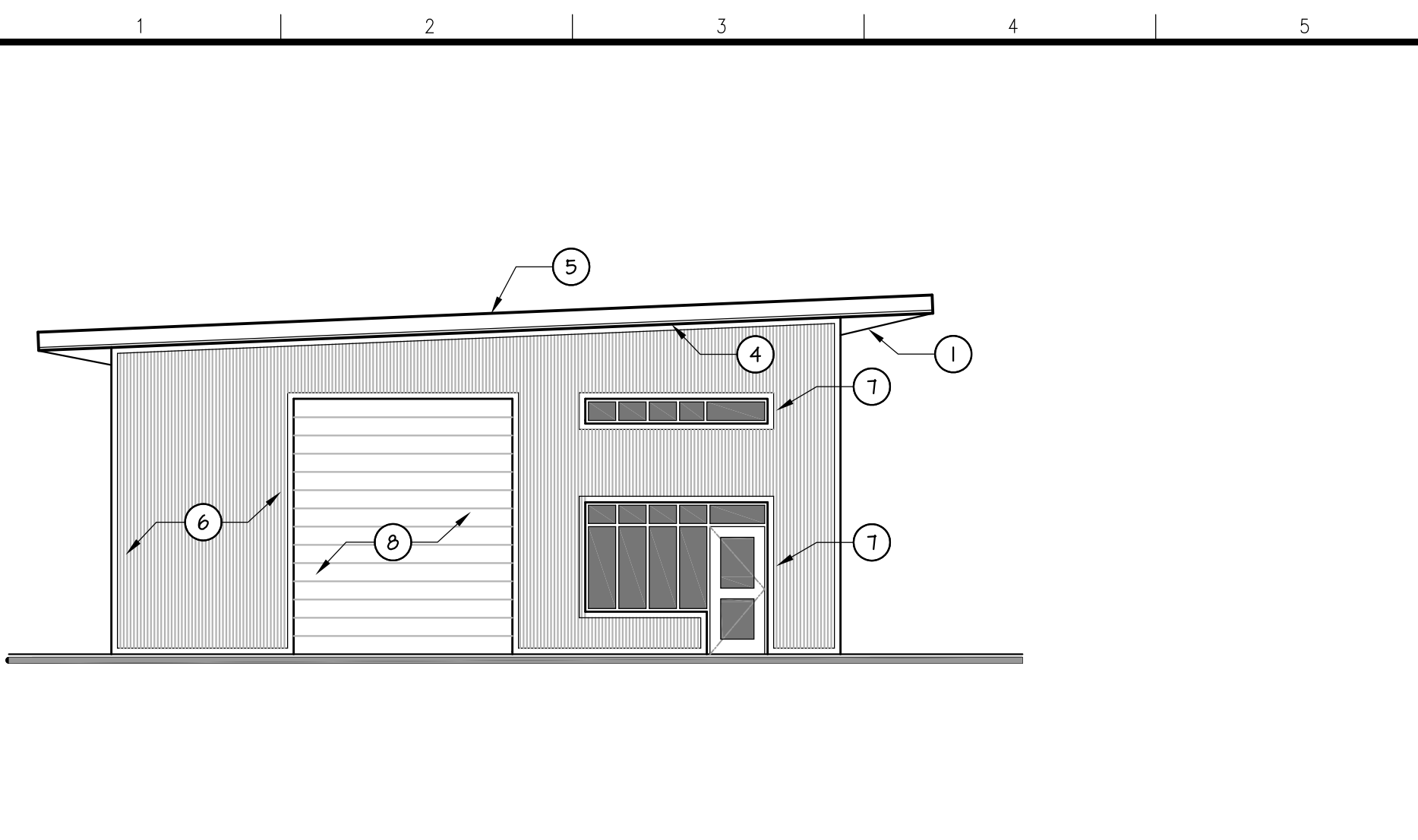
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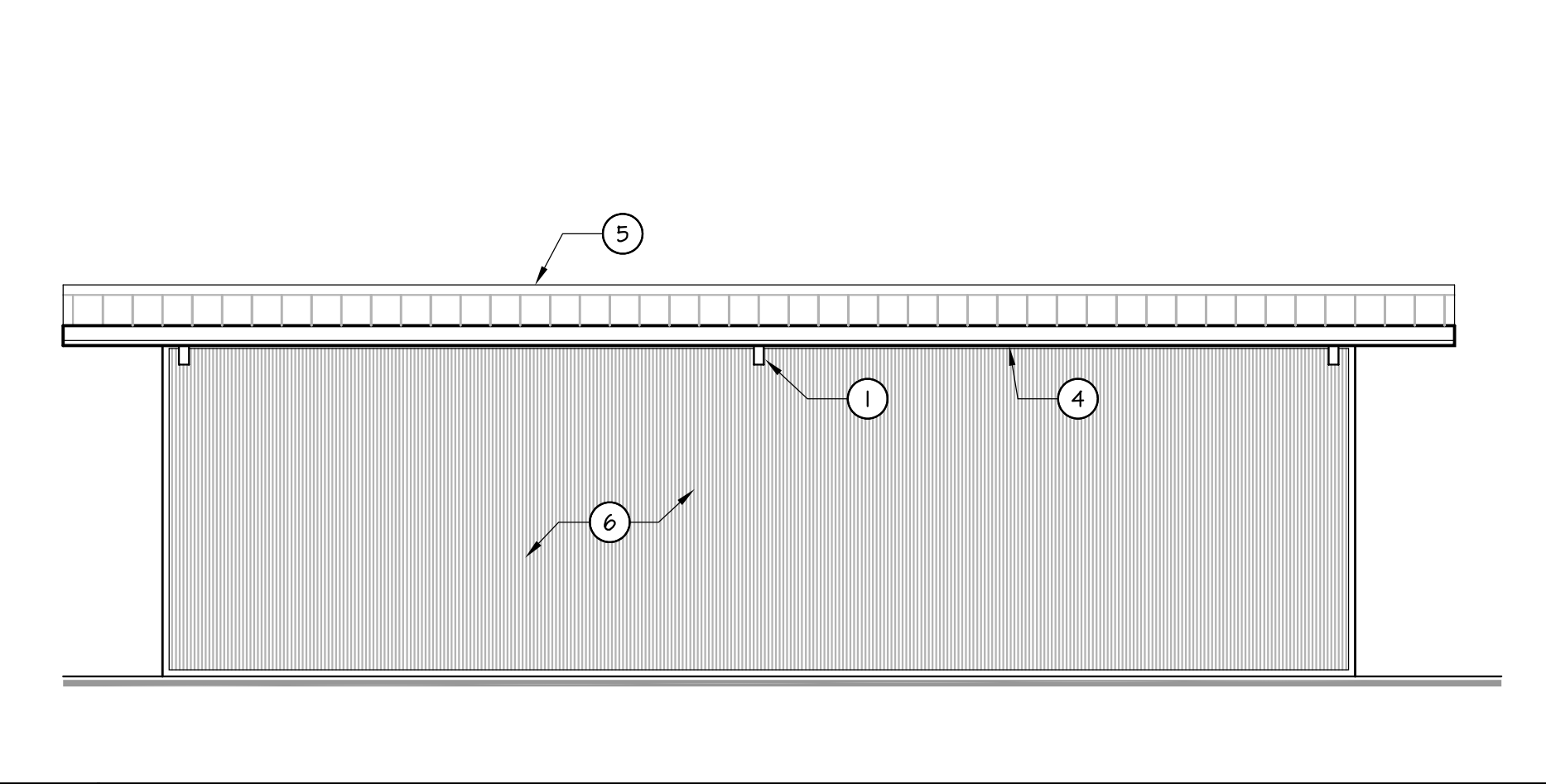
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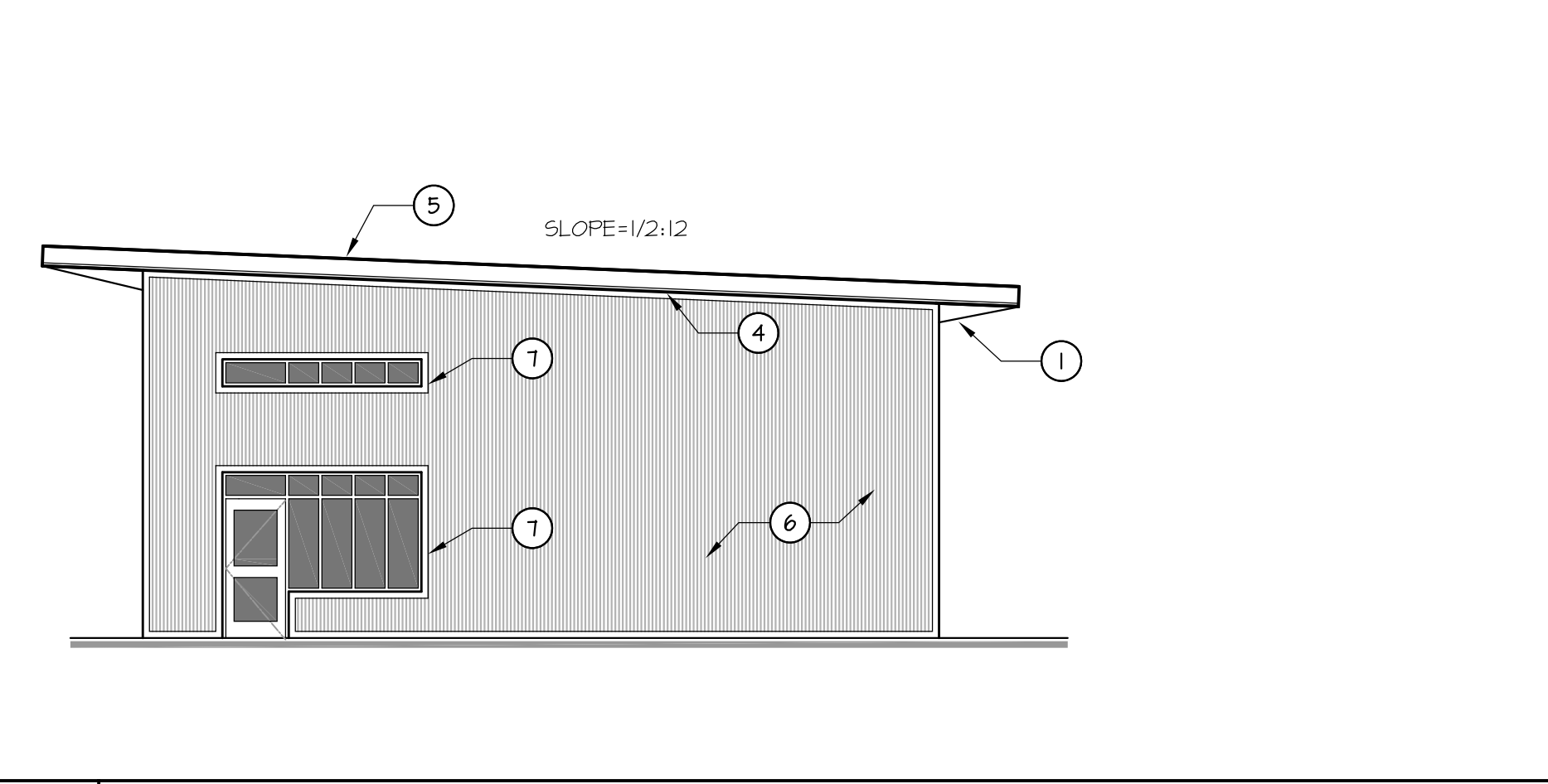
**PHASE 3
 SCOPE OF
 WORK**



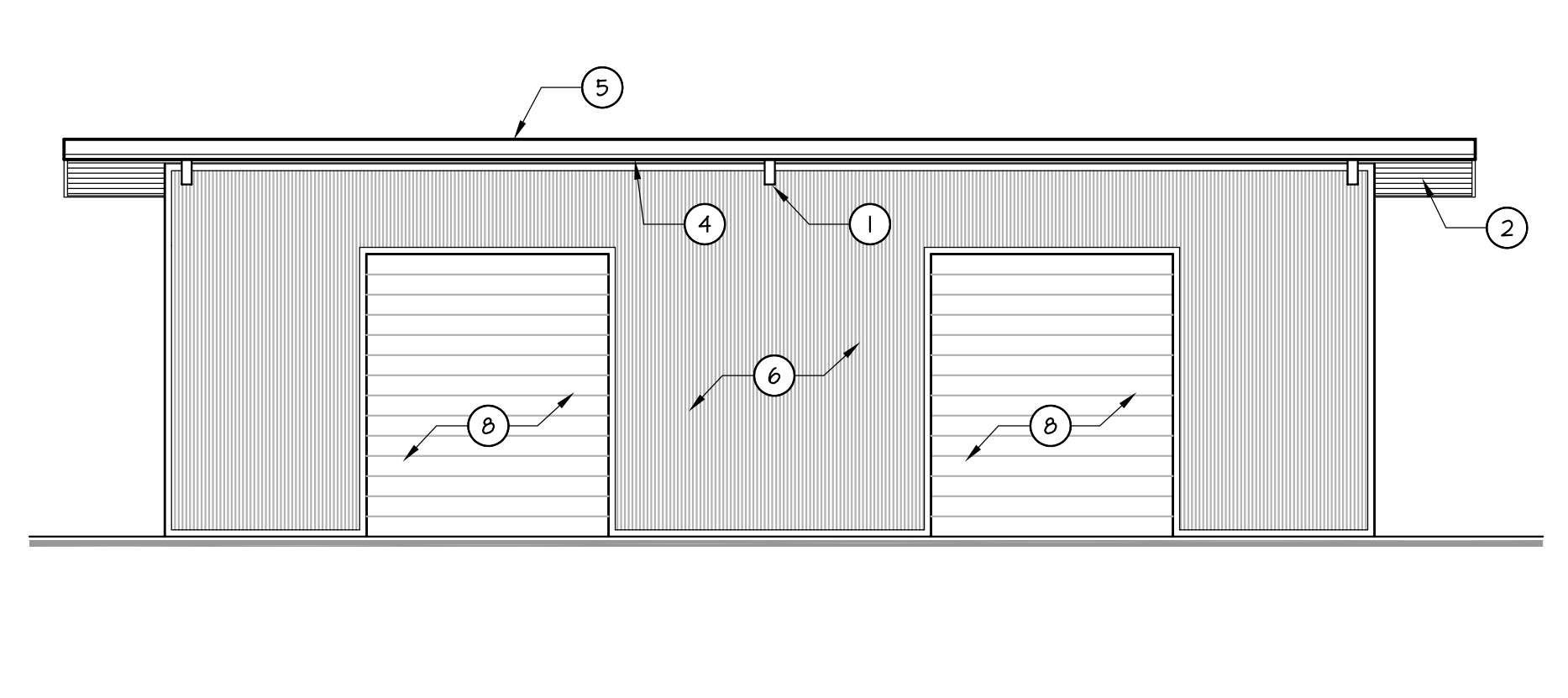
J1 North Elevation
Scale: 1/8" = 1'-0"



F1 East Elevation
Scale: 1/8" = 1'-0"



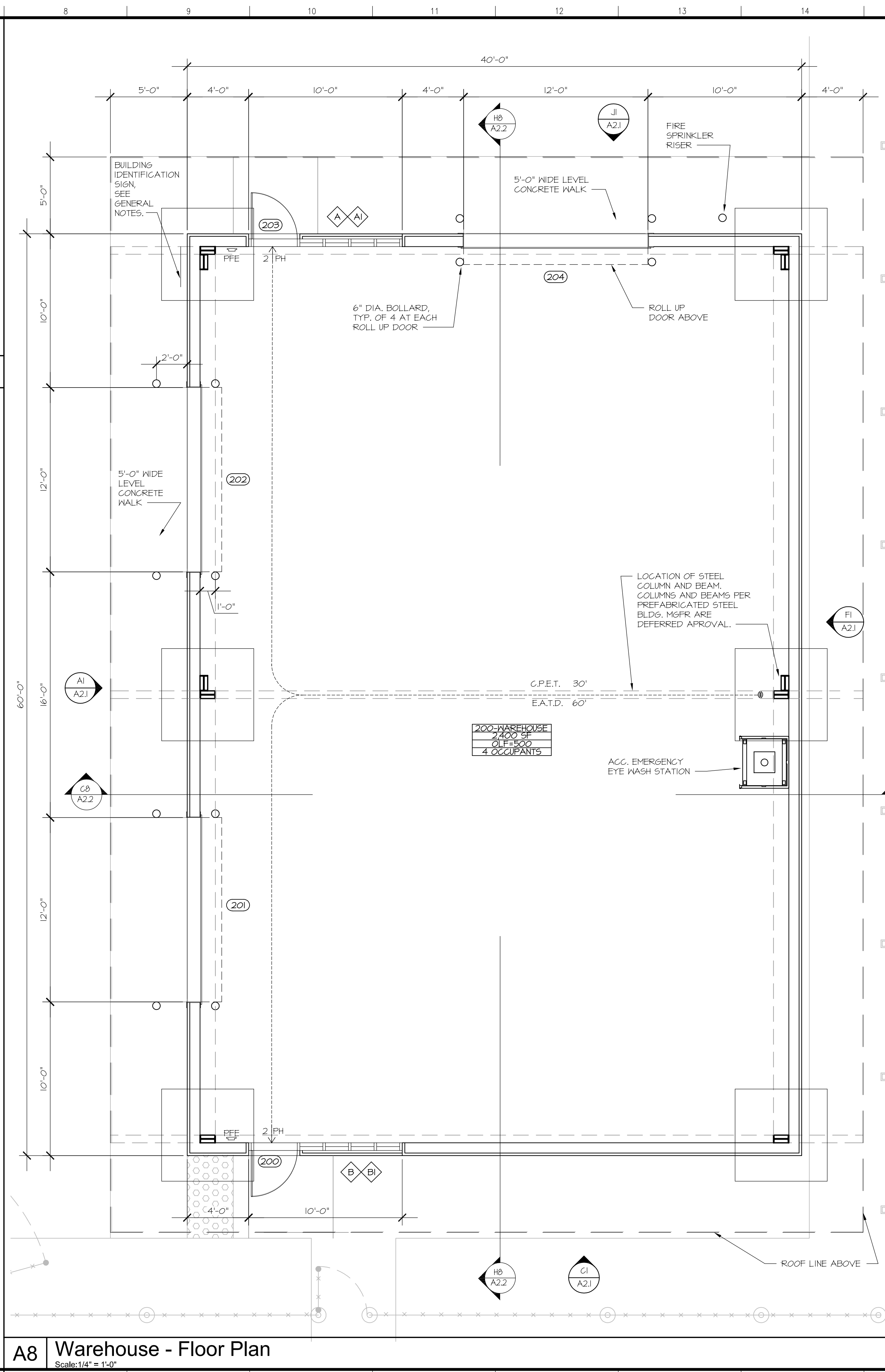
C1 South Elevation
Scale: 1/8" = 1'-0"



A1 West Elevation
Scale: 1/8" = 1'-0"

- ### ELEVATION KEYNOTES
- (X)
1. PREFABRICATED STEEL BUILDING RIGID FRAME.
 2. ZEE PURLINS PER PREFABRICATED STEEL BUILDING.
 3. EAVE STRUT PER PREFABRICATED STEEL BUILDING.
 4. FASCIA PURLIN PER PREFABRICATED STEEL BUILDING.
 5. 4" INSULATED METAL PANEL ROOF.
 6. 2" INSULATED METAL PANEL WALL.
 7. ALUMINUM WINDOW / DOOR ASSEMBLY.
 8. STEEL ROLL UP DOOR.

J6 KEYNOTES
Scale: 1/8" = 1'-0"



A8 Warehouse - Floor Plan
Scale: 1/4" = 1'-0"

EGRESS CALCULATIONS

GROSS FLOOR AREA	2,400 S.F.
OCCUPANCY GROUP: (S1/S2) STORAGE	
TYPE V-B CONSTRUCTION / SPRINKLERED	

OCCUPANCY

FLOOR AREA (ENCLOSED)	2,400 S.F.
ROOF OVERHANG (UNOCCUPIED)	1,377 S.F.
BUILDING TOTALS	3,777 S.F.

AREA AND OCCUPANT LOAD TABLE

PRIMARY USE	SQ. FOOTAGE	FACTOR	OCC. LOAD
WAREHOUSE	2,400 S.F.	500 (N)	4
TOTAL OCC. LOAD			4

EGRESS DOOR CALC'S

EXIT 1 REQUIRED OPENING	5 X 0.2 = 0.2'
PROVIDED OPENING	36"
EXIT 2 REQUIRED OPENING	5 X 0.2 = 2'
PROVIDED OPENING	36"

- ### EGRESS LEGEND
- ← ## DENOTES OCCUPANT LOAD THROUGH DOOR/ EXIT OR CUMULATIVE OCCUPANT LOAD ALONG COMMON PATH OF TRAVEL. PANIC HARDWARE (PH) WHERE INDICATED
 - ☐ PFE DENOTES PORTABLE FIRE EXTINGUISHER AT 48" MAX. A.F.F. TO TOP OF EXTINGUISHER (4" MAX. PROJECTION) WITH 75-FOOT MAX. TRAVEL DISTANCE
 - ☐ FA FIRE ALARM
 - MOST REMOTE LOCATION
 - C.P.E.T.D. COMMON PATH OF EGRESS TRAVEL DISTANCE
 - E.A.T.D. EXIT ACCESS TRAVEL DISTANCE

- ### FLOOR PLAN GENERAL NOTES
- PROVIDE MINIMUM 2A:10B:G PORTABLE FIRE EXTINGUISHER WHERE NOTED.
 - BUILDING IDENTIFICATION SIGN TO BE 18"x24" 2MM THICK ALUMINUM WITH MOUNTING SCREWS FACTORY PAINTED FOR EXTERIOR USE. OWNER TO PROVIDE BUILDING IDENTIFICATION INFO PRIOR TO CONSTRUCTION.



Project:
Fresno County
Environmental Compliance Center
Phase 3: Warehouse Building

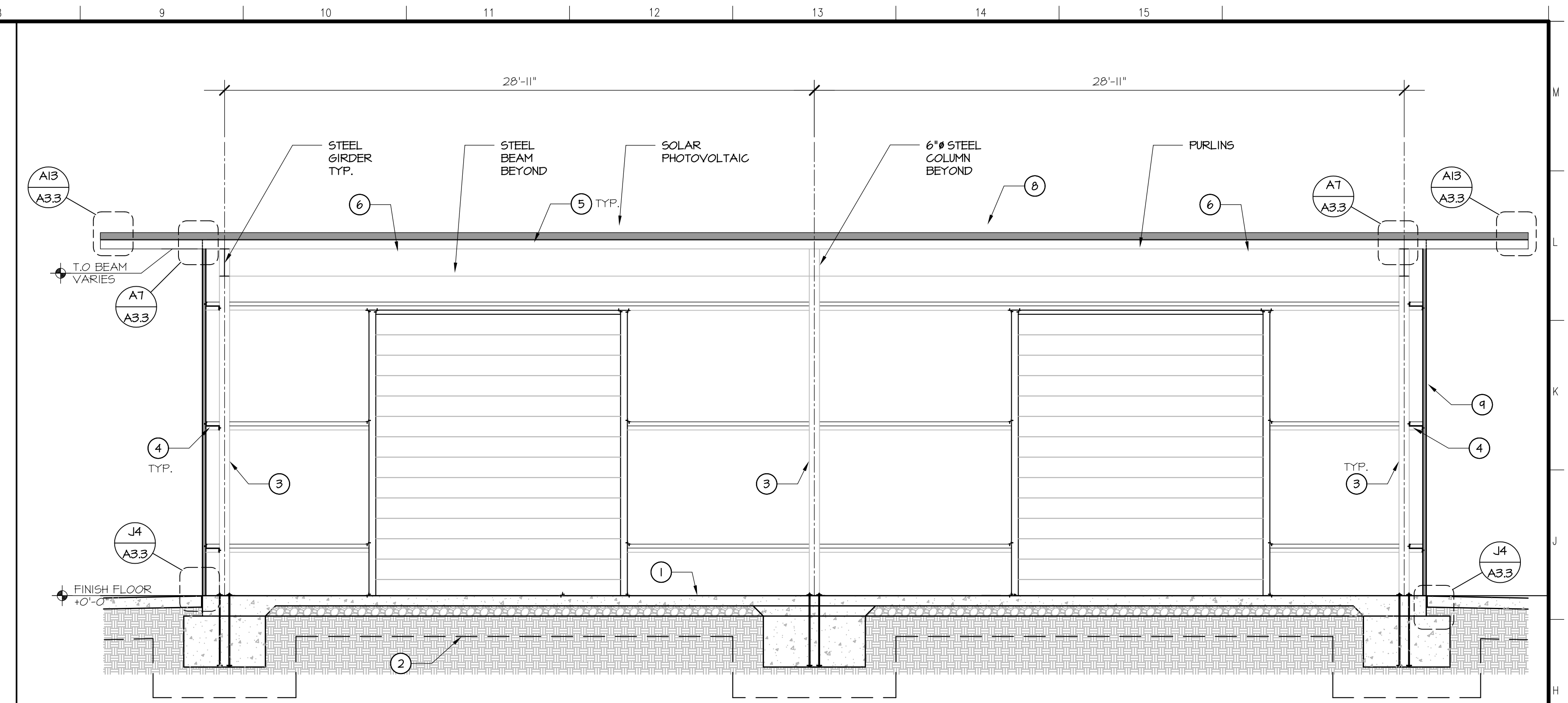
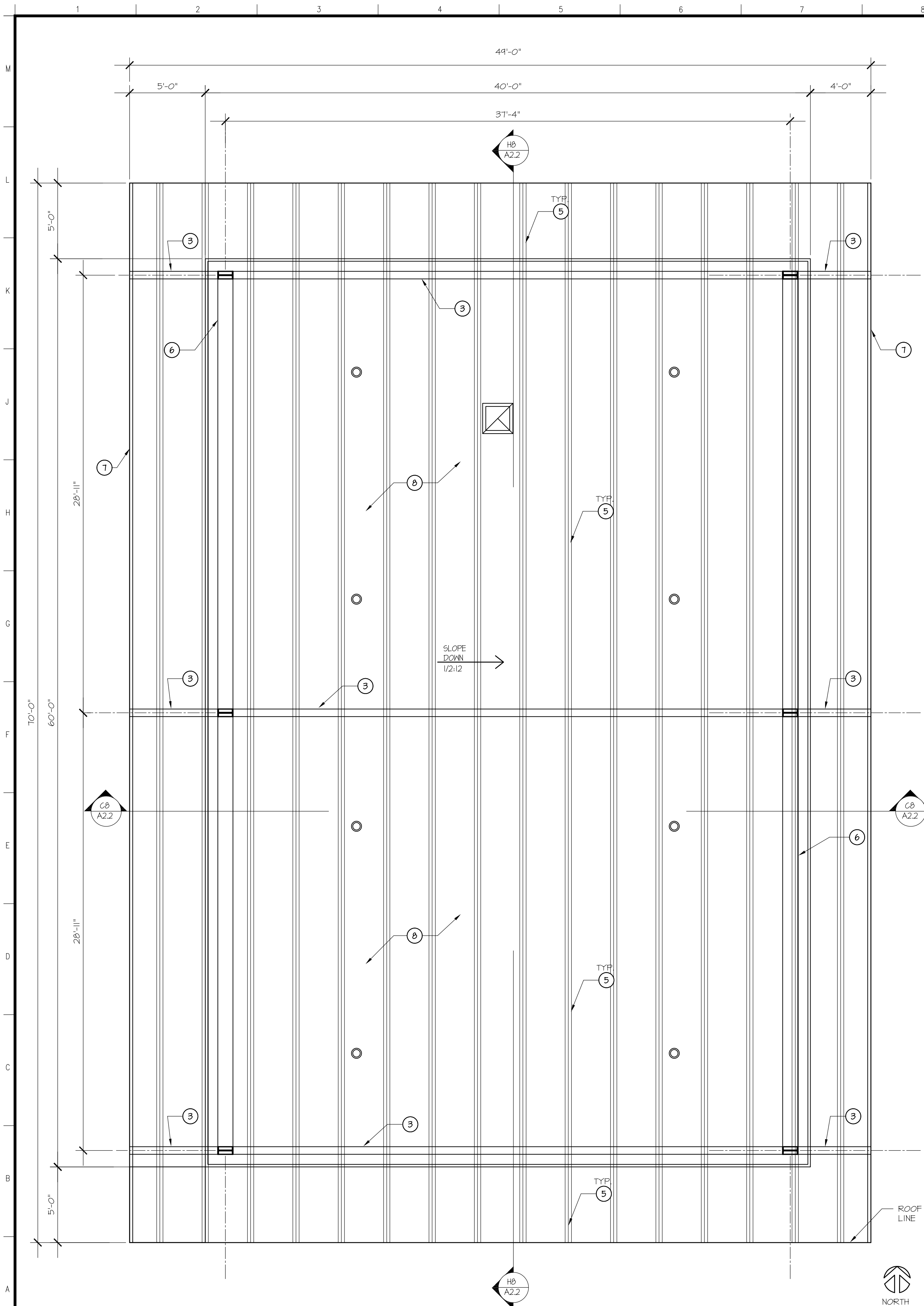
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Sheet Content:
Floor Plan & Elevations

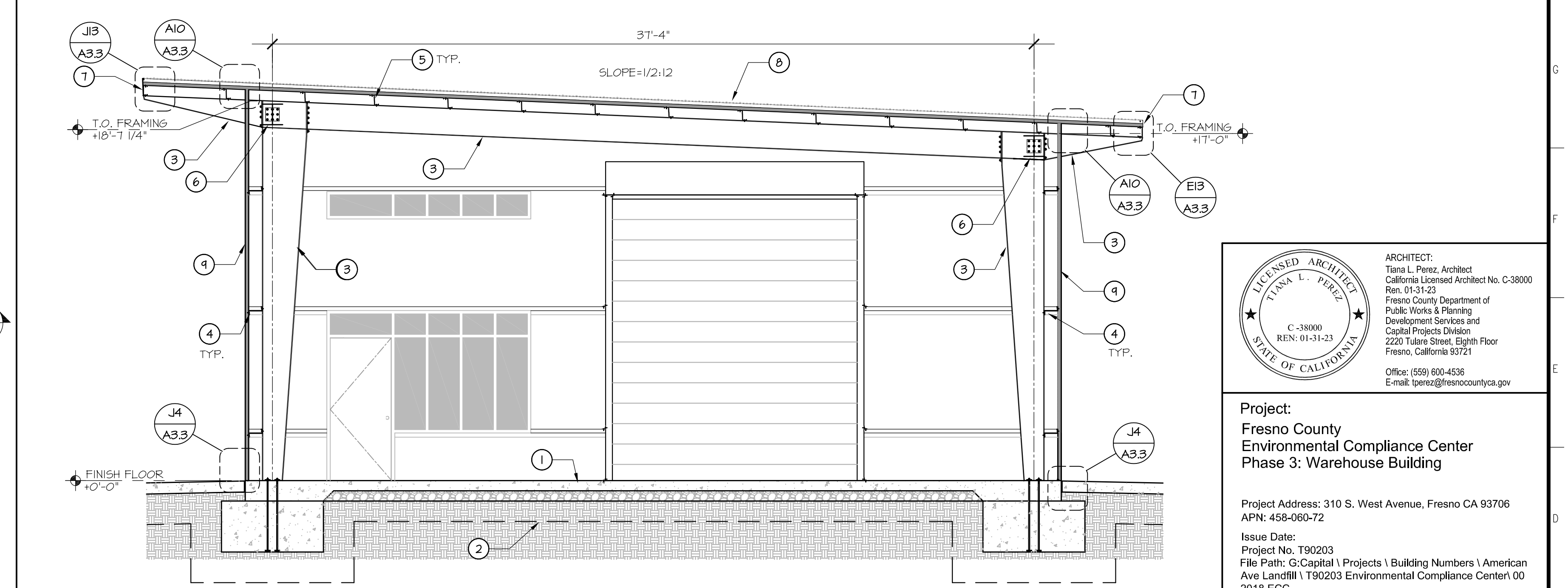
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Capital Projects

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Fresno, California 93721

Sheet No.
A2.1



H8 Section A
Scale: 1/4" = 1'-0"



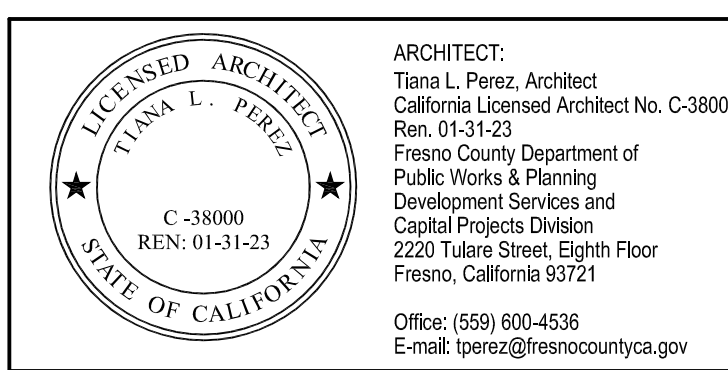
C8 Section B
Scale: 1/4" = 1'-0"

CEILING LEGEND

- EXHAUST GRILLE, SEE MECHANICAL DWGS.
- SURFACE MOUNTED LIGHTING FIXTURE, SEE ELECTRICAL DWGS.

KEYNOTES (X)

1. 6" SLAB ON GRADE CONCRETE FLOOR, SEE STRUCTURAL DWGS.
2. AGGREGATE/ ENGINEERED FILL, REFER TO SOILS REPORT.
3. RIGID FRAME COLUMN, RAFTER & RAFTER EXTENSION PER PREFABRICATED STEEL BUILDING.
4. WALL GIRTS PER PREFABRICATED STEEL BUILDING.
5. ZEE PURLINS @ MAX. 3' O.C. TYP. PER PREFABRICATED STEEL BUILDING.
6. EAVE STRUT PER PREFABRICATED STEEL BUILDING.
7. FASCIA PURLIN PER PREFABRICATED STEEL BUILDING.
8. 4" INSULATED METAL PANEL ROOF, 24 GA. EXT. & 26 GA. INT.
9. 2" INSULATED METAL PANEL WALL, 26 GA. EXT. & INT., MITER CORNERS.



Project:
Fresno County
Environmental Compliance Center
Phase 3: Warehouse Building

Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center \ 00 2018 ECC

Sheet Content:
Reflected Ceiling Plan & Sections

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721



Sheet No.
A2.2

A1 Warehouse - Reflected Ceiling Plan
Scale: 1/4" = 1'-0"

A8 Ceiling Legend

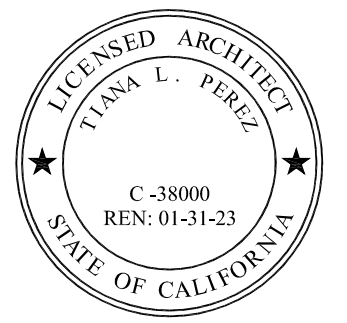
A11 Keynotes

ITEM	CODE	DESCRIPTION	REMARKS
FLOOR	F-1	EXPOSED CONCRETE WITH CLEAR SATIN CONCRETE SEALER	
BASE	B-1	NO BASE (EXPOSED WALL PANEL, SEE W-1)	
WALLS	W-1	EXPOSED WALL PANEL	PROTECTIVE PAINT PER MGFR
CEILING	C-1	EXPOSED ROOF PANEL	PROTECTIVE PAINT PER PANEL MGFR
MISC.	M-1	ENAMEL (ACRYLIC) PAINTED H.M. DOOR/FRAMES	PAINT H.M. DOORS AND FRAMES
	M-2	ENAMEL (ACRYLIC) PAINTED H.M. WINDOW FRAMES	PAINT H.M. WINDOW FRAMES

H10 ROOM FINISH SCHEDULE, TYP. THROUGHOUT

1. TYPES "F-1", "B-1", "W-1", "C-1" ARE STANDARD FINISHES THAT APPLY THROUGHOUT ALL AREAS EXCEPT WHERE OTHER FINISHES ARE INDICATED. MISCELLANEOUS FINISHES ARE APPLICABLE THROUGHOUT THE BUILDING AS INDICATED.
2. ALL STAIN PAINT, SEALER AND ACCENT COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. ALL INTERIOR FINISHES SHALL BE AS SELECTED BY ARCHITECT/OWNER FROM ACTUAL PRODUCT SAMPLE SUBMITTALS PROVIDED BY CONTRACTOR. ALL PAINT MATERIAL SHALL BE EPA APPROVED AND AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A SUITABLE AND DURABLE FINISH FOR ITS INTENDED APPLICATION.
4. CONTRACTOR(S) SHALL SUPPLY 5 COPIES MINIMUM OF FULL COLORS/ TEXTURES/ SAMPLE RANGES FOR ARCHITECT'S SELECTION. ALL SAMPLES SHALL BE ACTUAL MATERIALS/ COLORS AND NOT PHOTO REPRODUCTIONS.
5. ALL EXPOSED METAL SHALL BE PRIMED AND PAINTED. COLORS AS SELECTED BY ARCHITECT/OWNER.
6. PREPARE ALL FLOORS PRIOR TO COVERING, CLEAN AND FILL, LEVEL UNEVENNESS W/ FLOOR COVERING MANUFACTURER RECOMMENDED, APPROVED MATERIALS. SEAL FLOORS W/ MGFR APPROVED VAPOR EMISSIONS TREATMENT WHERE MOISTURE OR PH TESTS ARE OUTSIDE OF ACCEPTABLE RANGE.
7. MINIMUM PAINT/STAIN COAT FINISHES ARE INDICATED IN SPECS. CONTRACTOR(S) SHALL APPLY ADDITIONAL COATS AS REQUIRED TO ENSURE/ MAINTAIN / PROVIDE EVENNESS OF COLOR /FINISH ETC. TO THE ACCEPTANCE OF THE OWNER AND ARCHITECT.
8. FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION: ALL FINISHES SHALL HAVE A CLASS 'C' FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION OF 450 OR BETTER TO MEET CBC SECTION 808 REQUIREMENTS. ALL DECORATIVE MATERIAL MUST BE FLAME RETARDANT TREATED.

F10 FINISH SCHEDULES NOTES



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Project:
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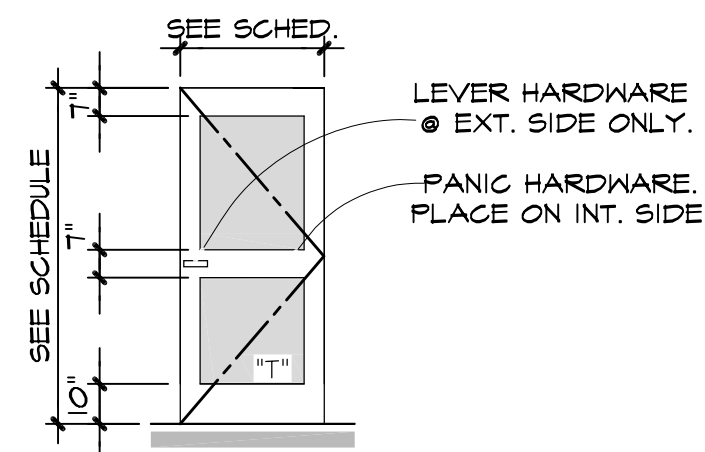
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Finish Schedule

Fresno County Department of
Public Works and Planning
Capital Projects

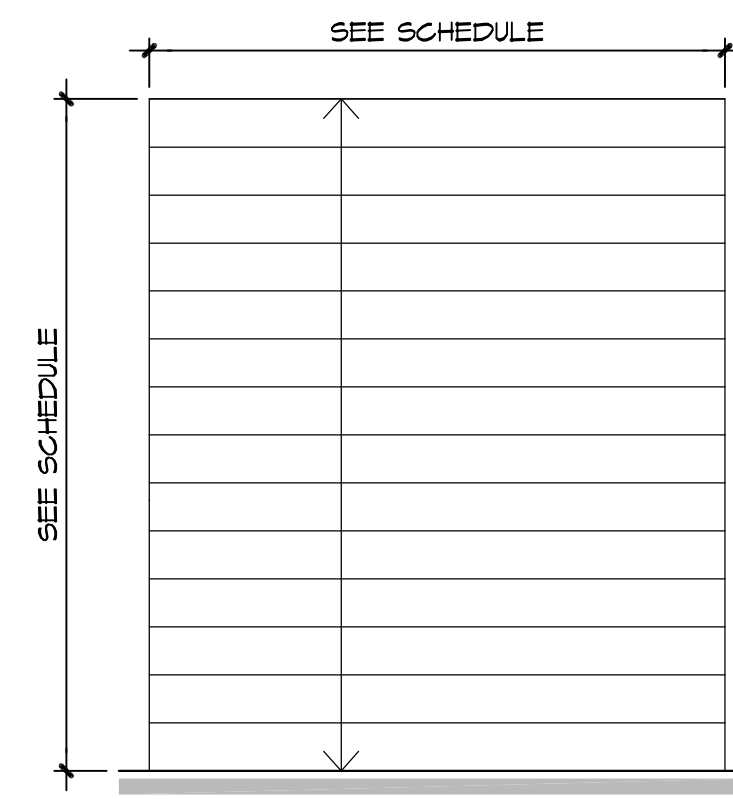


2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A3.1

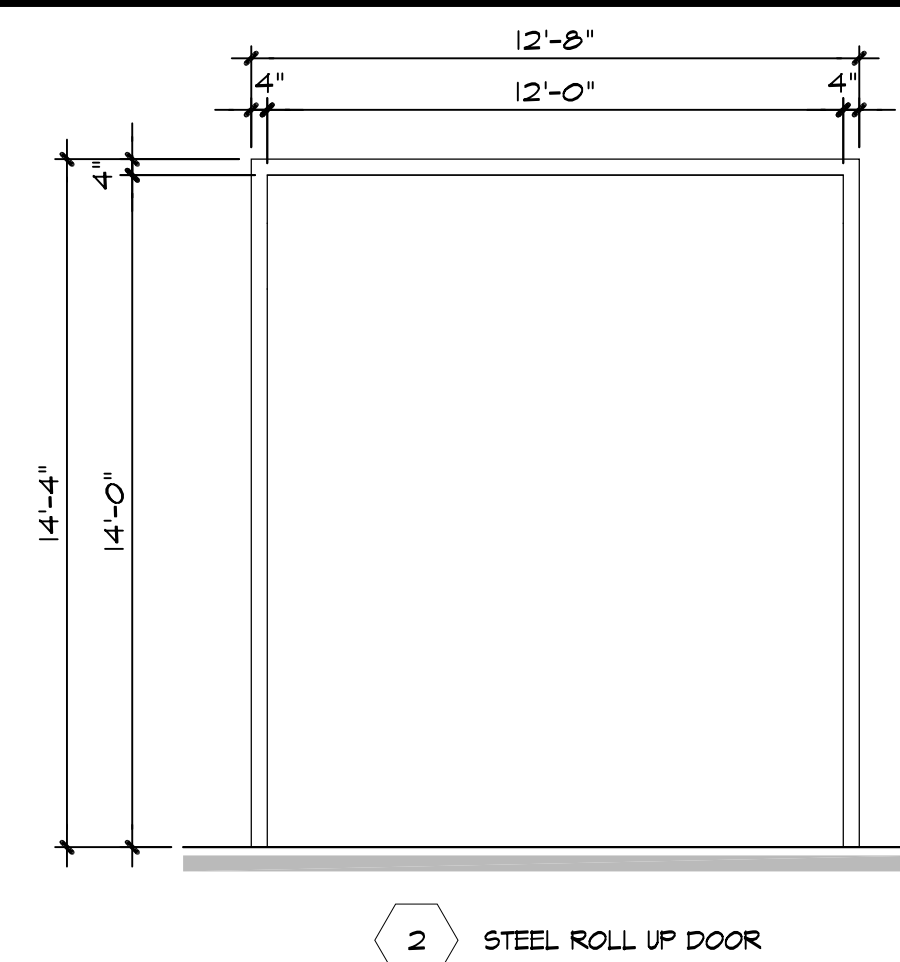


TYPE FG



TYPE RU

K1 DOOR TYPE
Scale: 1/4" = 1'-0"



1 ALUMINUM STOREFRONT SYSTEM, SEE WINDOW ELEVATIONS.

2 STEEL ROLL UP DOOR

G1 FRAME ELEVATIONS
Scale: 1/4" = 1'-0"

NO.	QTY.	SIZE	DOOR TYPE	DOOR MATERIAL	FRAME		RATED ASSEMBLY	DETAILS		THRSHLD	SIGNAGE TYPE	HARDWARE GROUP	REMARKS
					MATL.	ELEV.		HEAD	JAMB				
200	1	3'-0"X7'-0"X 3/4"	FG	AL	AL	1	-	-	J10#E10/A3.3	E4/A3.3	S1, S2, S3	6.0	PANIC HARDWARE
201	1	12'-0"X14'-0"	RU	ST	ST.	2	-	J7/A3.3	J10#E10/A3.3	E4/A3.3	-	7.0	-
202	1	12'-0"X14'-0"	RU	ST	ST.	2	-	J7/A3.3	J10#E10/A3.3	E4/A3.3	-	7.0	-
203	1	3'-0"X7'-0"X 1 3/4"	FG	AL	AL	1	-	-	J10#E10/A3.3	E4/A3.3	S1, S2, S3	6.0	PANIC HARDWARE
204	1	12'-0"X14'-0"	RU	ST	ST.	2	-	J7/A3.3	J10#E10/A3.3	E4/A3.3	-	7.0	-

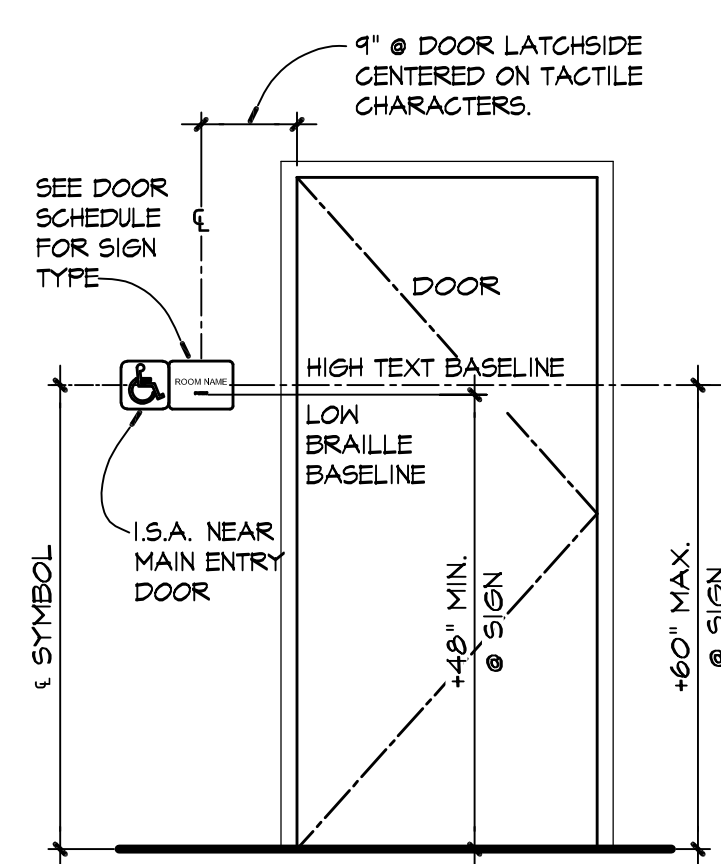
L6 DOOR SCHEDULE SEE (XX) SYMBOL ON FLOOR PLANS

- VERIFY EXACT SIZES IN FIELD PRIOR TO ORDERING FOR ALL DOORS / FRAMES. MAINTAIN CBC MIN. REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 08 11 00 PART 3.B FOR COMPLETE HARDWARE GROUP DESCRIPTIONS.
- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- DOOR AND FRAME MATERIALS TO READ AS FOLLOWS:
AL --- ALUMINUM
ST --- STEEL
- CONTRACTOR SHALL BE RESPONSIBLE TO COUNT AND VERIFY NUMBER AND QUANTITIES OF DOORS.
- GARD READER FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.
- "T" AT GLAZING PANELS DENOTES THE PANEL TO BE TEMPERED, OR LAMINATED SAFETY GLAZING PER SPECIFICATIONS.
- EXTERIOR DOOR LIGHTS TO HAVE U FACTOR VALUE OF NOT MORE THAN 0.55 AND SHGC OF NOT MORE THAN 0.67.
- SEE THIS SHEET FOR SIGNAGE DETAIL, SIGNAGE TYPE DESIGNATION AND INSTALLATION CRITERIA.
- REFER TO FLOOR PLAN FOR SIGNAGE LOCATION.

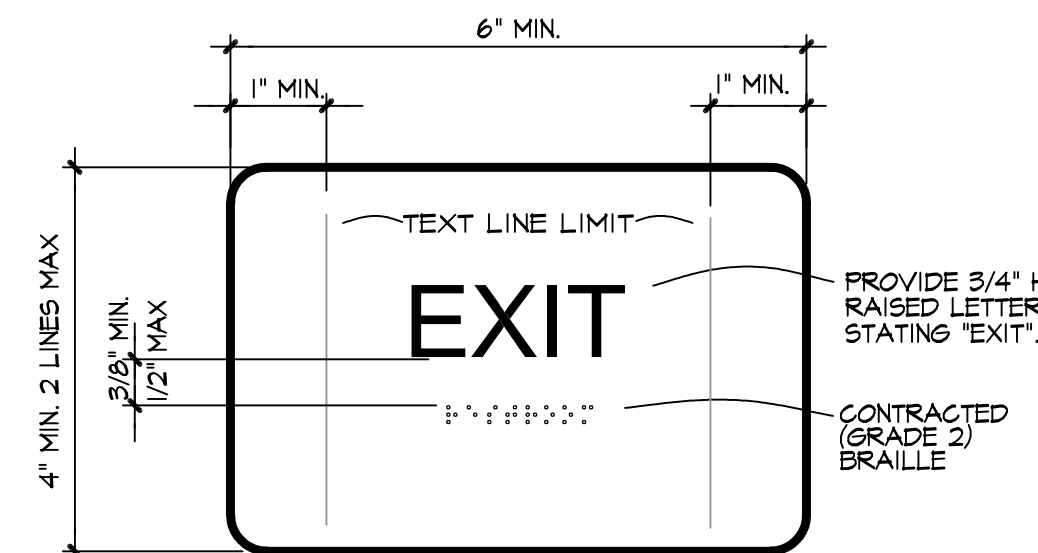
J6 DOOR SCHEDULE NOTES

NOTE:

- SIGNAGE SHALL BE INSTALLED ON WALL AND/OR DOOR SURFACE SEEN JUST PRIOR TO ENTRY INTO THE IDENTIFIED ROOM OR SPACE.
- SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO LATCH SIDE OF DOOR. SIGNS AT DOUBLE DOORS WITH TWO ACTIVE LEAVES SHOULD BE LOCATED RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE ON LATCH SIDE, INCLUDING DOUBLE DOORS, SIGNS SHALL BE PLACED ON NEAREST ADJACENT WALL.
- COORDINATE WITH FLOOR PLAN FOR LOCATIONS.

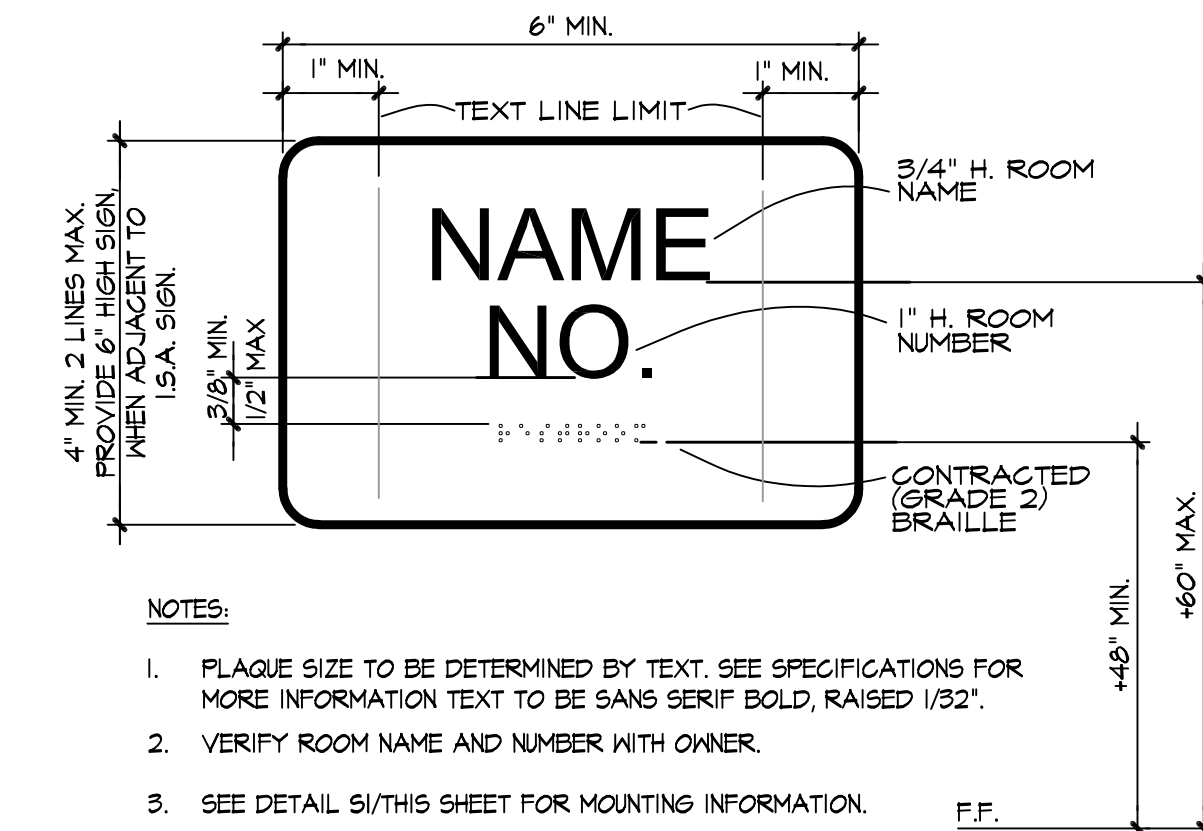


S1 TYPICAL SIGN PLACEMENT
1/2" = 1'-0"



- NOTE:
- PLAQUE SIZE TO BE DETERMINED BY TEXT. SEE SPECIFICATIONS FOR MORE INFORMATION. TEXT TO BE SANS SERIF BOLD, RAISED 1/32".
 - MOUNT AT +58" A.F.F. TO BASELINE OF HIGHEST TACTILE TEXT.
 - SEE DETAIL S1/THIS SHEET FOR MOUNTING INFORMATION.

S2 EXIT SIGNAGE
6" = 1'-0" DIRECTIONAL EXIT & EXIT ROUTE SIGNAGE SIMILAR



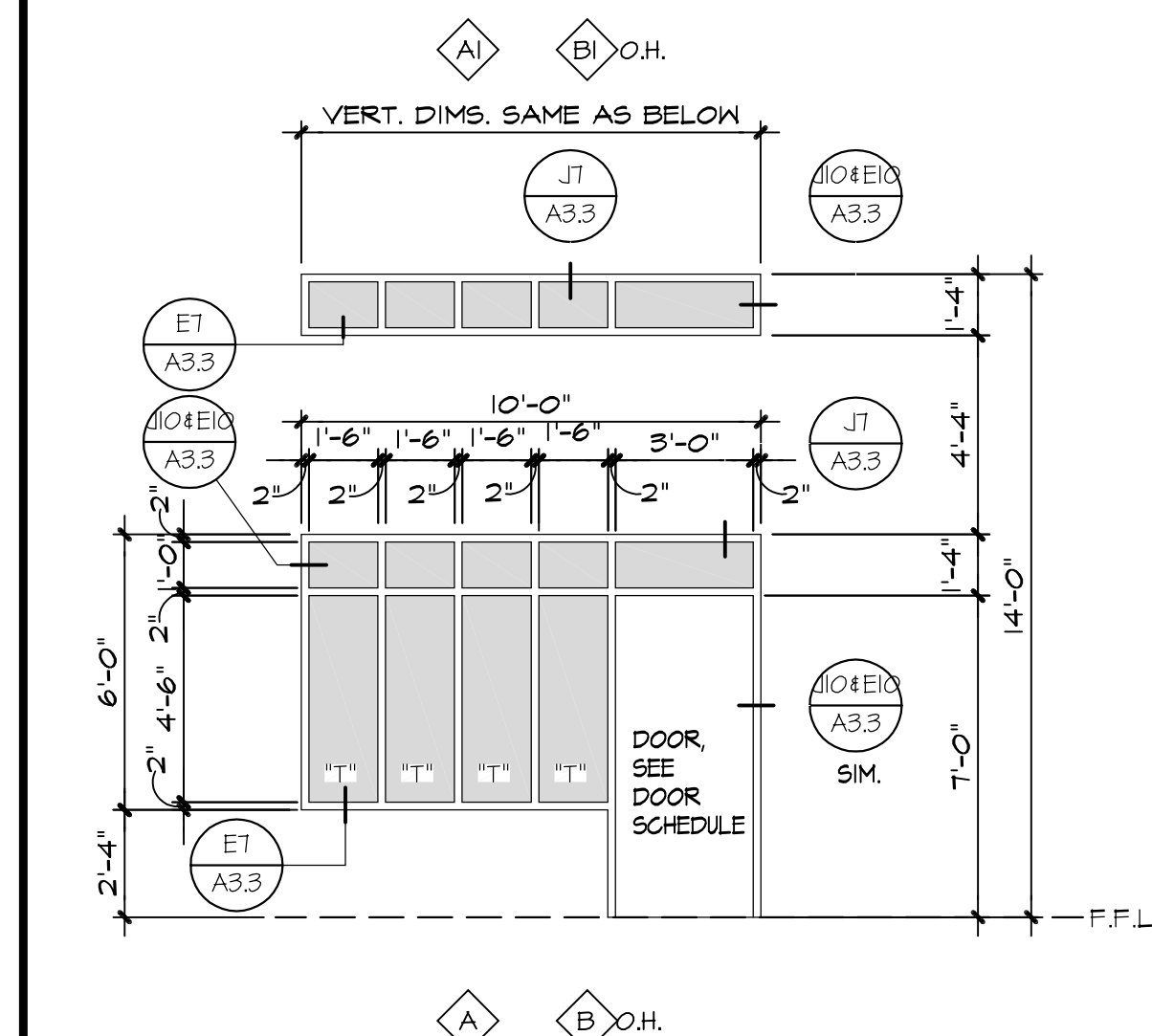
- NOTES:
- PLAQUE SIZE TO BE DETERMINED BY TEXT. SEE SPECIFICATIONS FOR MORE INFORMATION. TEXT TO BE SANS SERIF BOLD, RAISED 1/32".
 - VERIFY ROOM NAME AND NUMBER WITH OWNER.
 - SEE DETAIL S1/THIS SHEET FOR MOUNTING INFORMATION.

S3 TYPICAL ROOM SIGNAGE
6" = 1'-0"

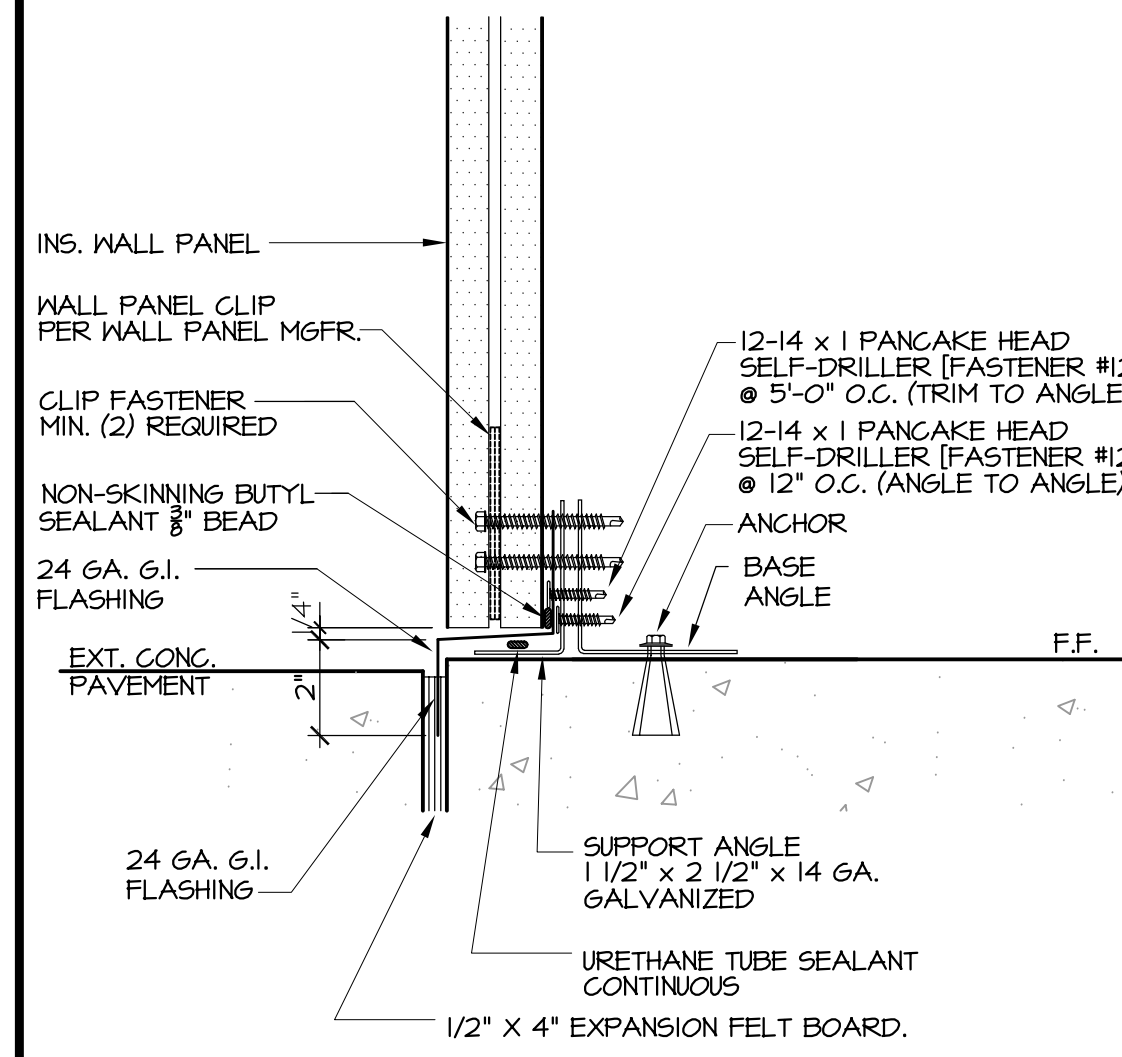
E6 SIGNAGE DETAILS

WINDOW ELEVATION GENERAL NOTES

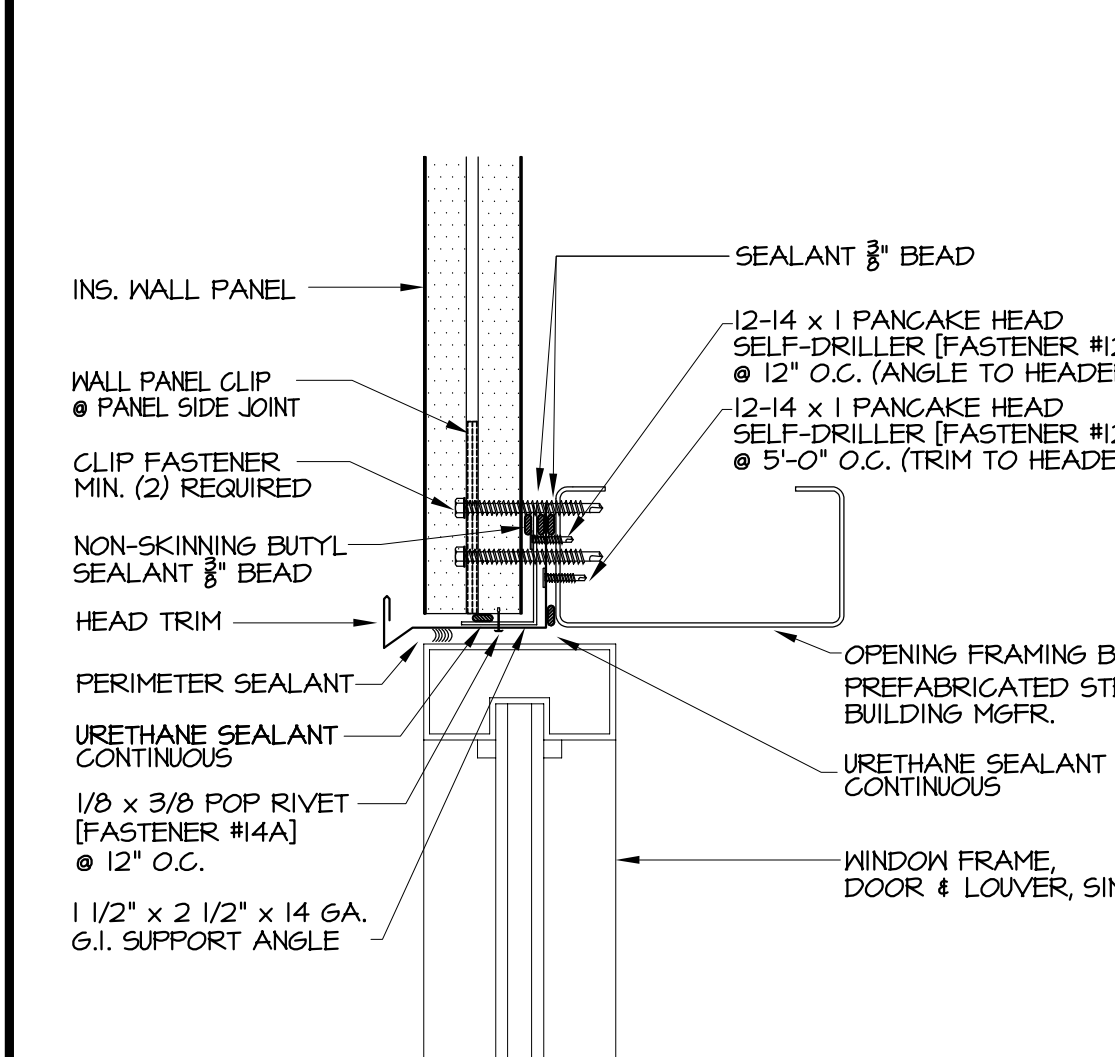
- ALL ROUGH OPENINGS SHALL BE FIELD VERIFIED BEFORE ORDERING MATERIALS.
- REFER TO SPECIFICATIONS FOR COMPLETE STOREFRONT SYSTEM DESCRIPTIONS.
- EXTERIOR WINDOW ELEVATIONS ARE VIEWED FROM THE EXTERIOR OF THE BUILDING, WITH GLAZING SHOWN HATCHED.
- WINDOW DIMENSIONS SHOW APPROX. NOMINAL SIZES (U.N.O.). CONTRACTOR SHALL VERIFY ALL ACTUAL ROUGH OPENING DIMENSIONS & ADJUST SIZES AS REQUIRED FOR SHIM SPACE & ADJACENT FINISHES PER SECTIONS, DETAILS, SPECIFICATIONS & MANUFACTURER'S RECOMMENDATIONS, TAKING CARE TO MAINTAIN INDICATED ALIGNMENT TO TOP & BOTTOM OF FRAMES.
- UNLESS NOTED OTHERWISE, ALUMINUM FRAME WINDOWS TO HAVE CLEAR ANODIZED FINISH.
- PROVIDE JUSTIFICATION FROM THE WINDOW MANUFACTURER FOR THE U-FACTOR AND SOLAR HEAT GAIN COEFFICIENT (SHGC) FACTORS SPECIFIED.
- EXCEPT AS INDICATED OTHERWISE, ALL EXTERIOR WINDOWS SHALL HAVE 1" CLEAR DUAL GLAZED UNITS. ALL UNITS SHALL HAVE A U FACTOR VALUE OF NOT MORE THAN 0.36, SHGC VALUE NOT MORE THAN 0.25 & MIN. VT VALUE OF 0.42. (CEC 140.3(A) 5 & TABLE 140.3-B) PROVIDE TEMPERED WHERE INDICATED WITH A "T" OR WHERE REQUIRED BY CODE & GLAZING REGULATIONS.
- ALL STOREFRONT & WINDOW ASSEMBLIES SHALL HAVE A MINIMUM OF 2 FASTENERS EACH SIDE W/ MAX. SPACING @ 24" O.C. SEE DETAILS FOR ANCHORAGE AT FLOOR SLAB.
- PROVIDE CLEAR SILICONE SEALANT, PER MANUFACTURER'S RECOMMENDATIONS.



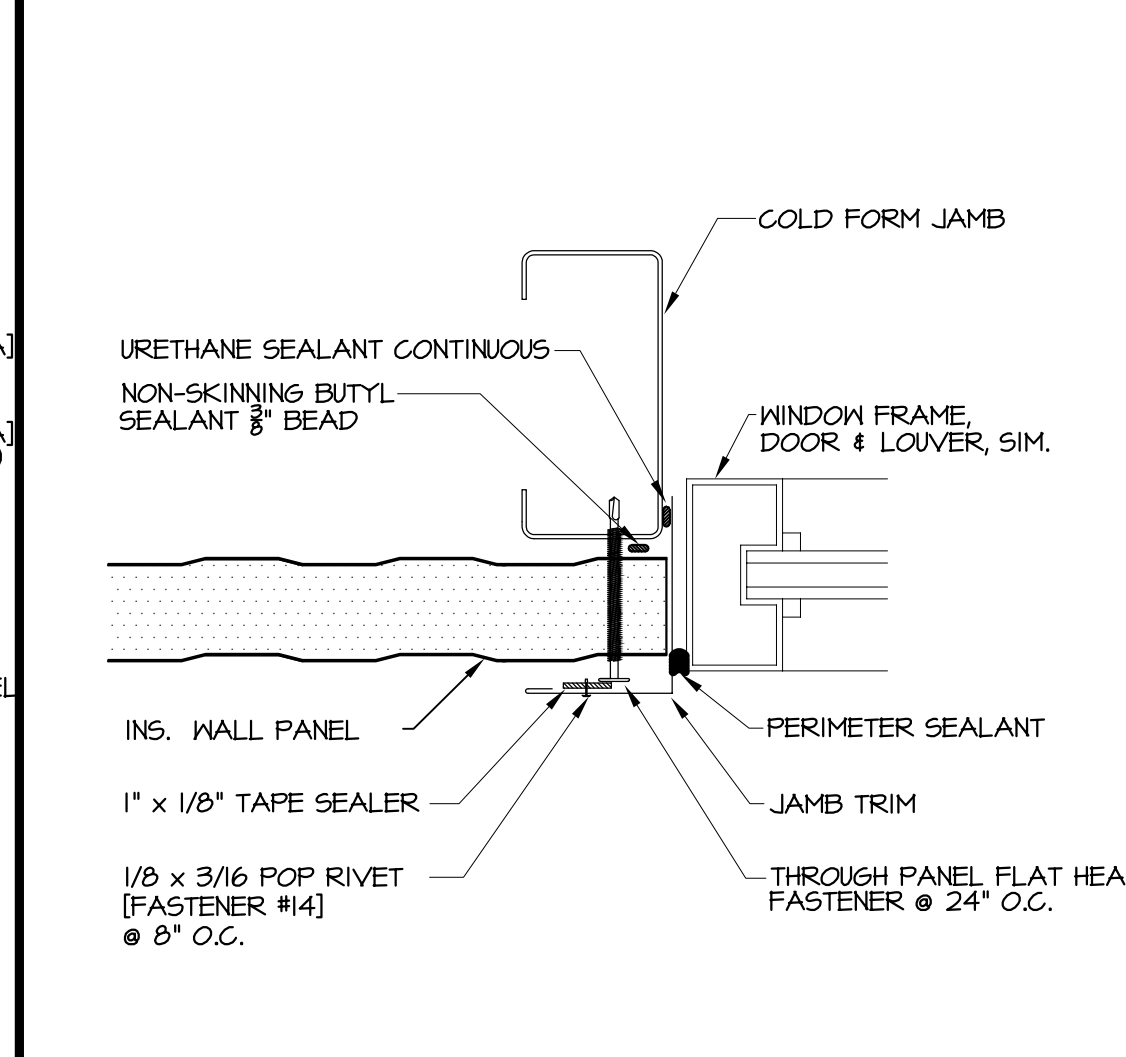
J4 WALL BASE DETAIL



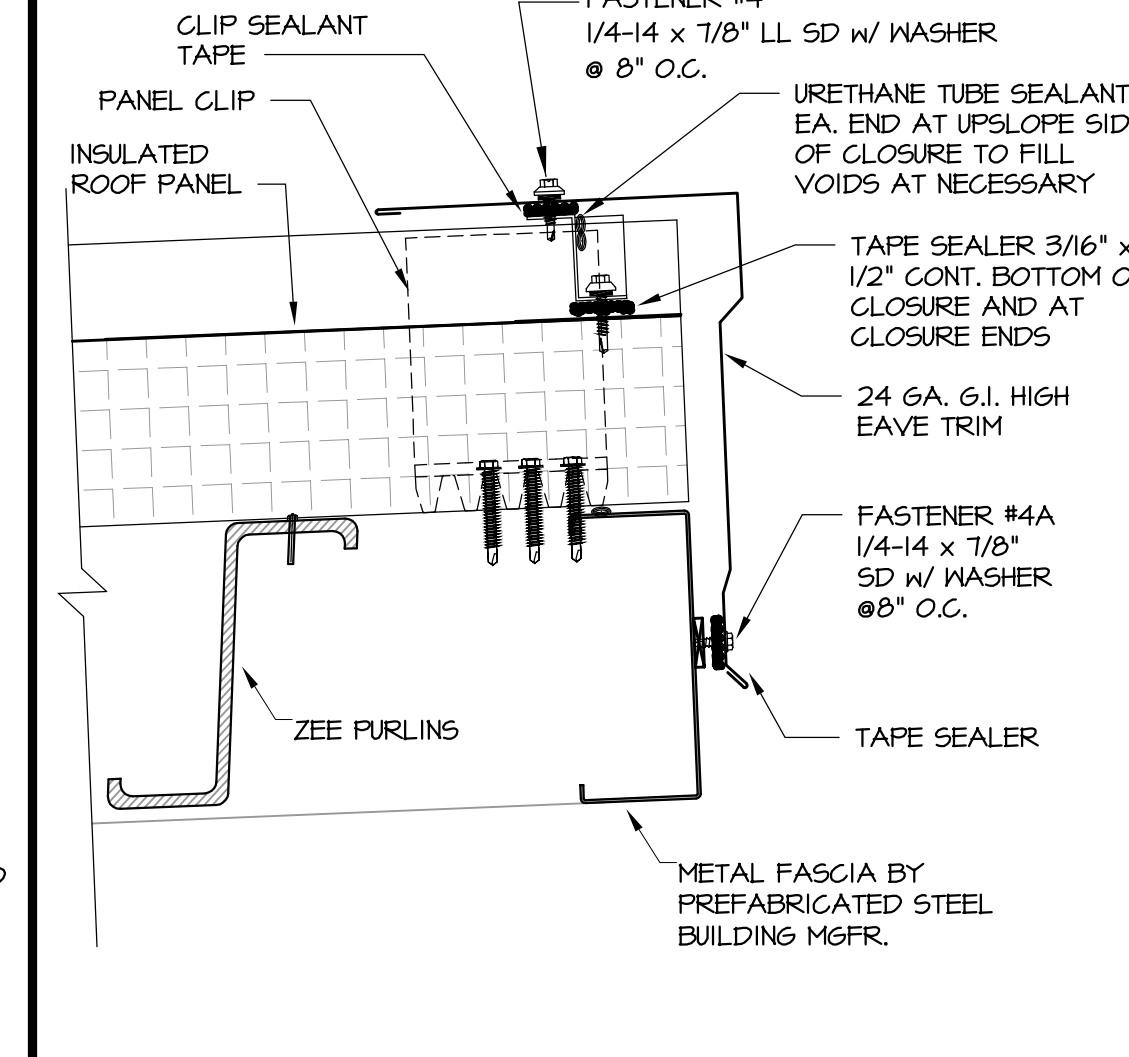
J7 WINDOW HEAD DETAIL



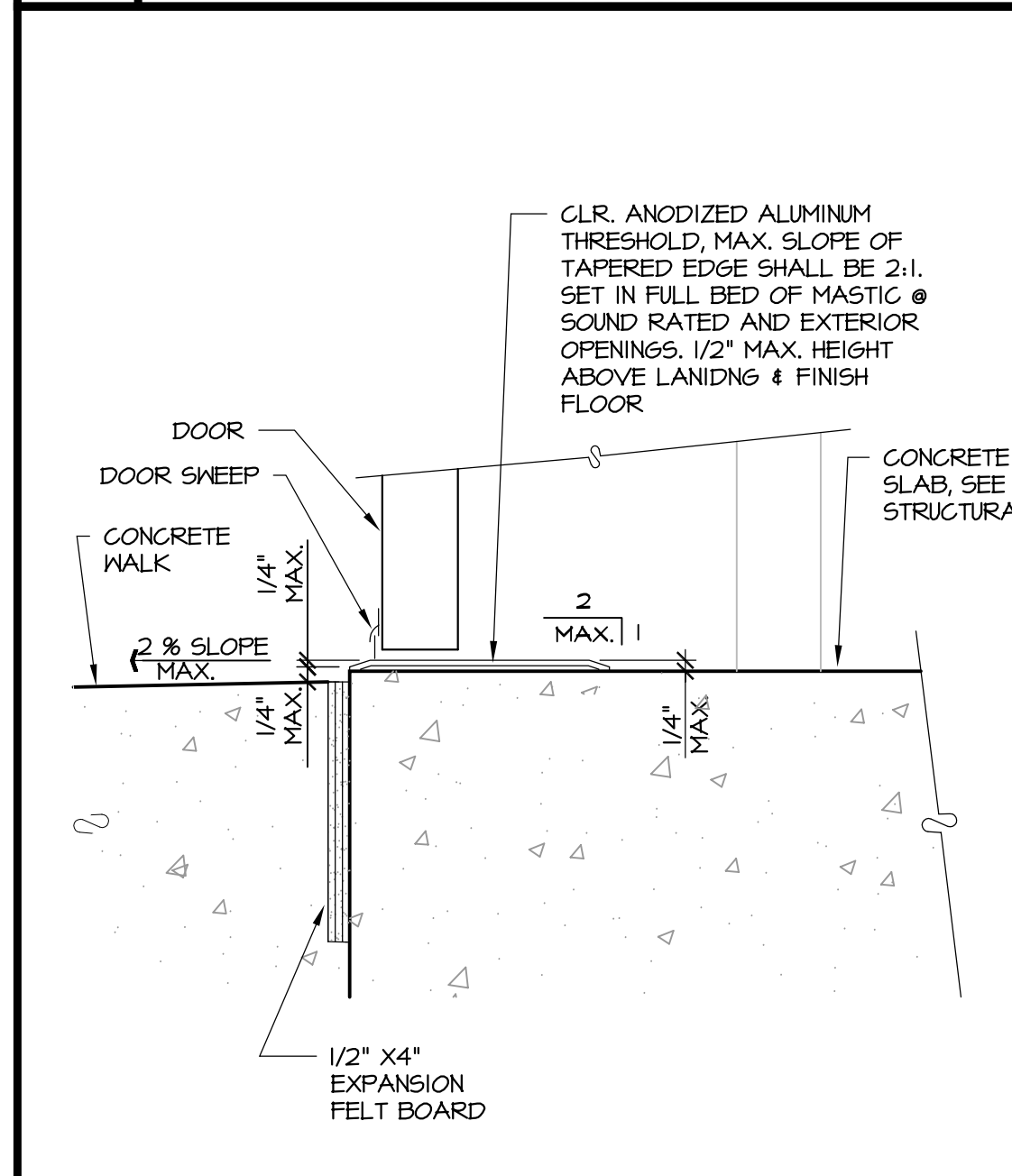
J10 JAMB DETAIL



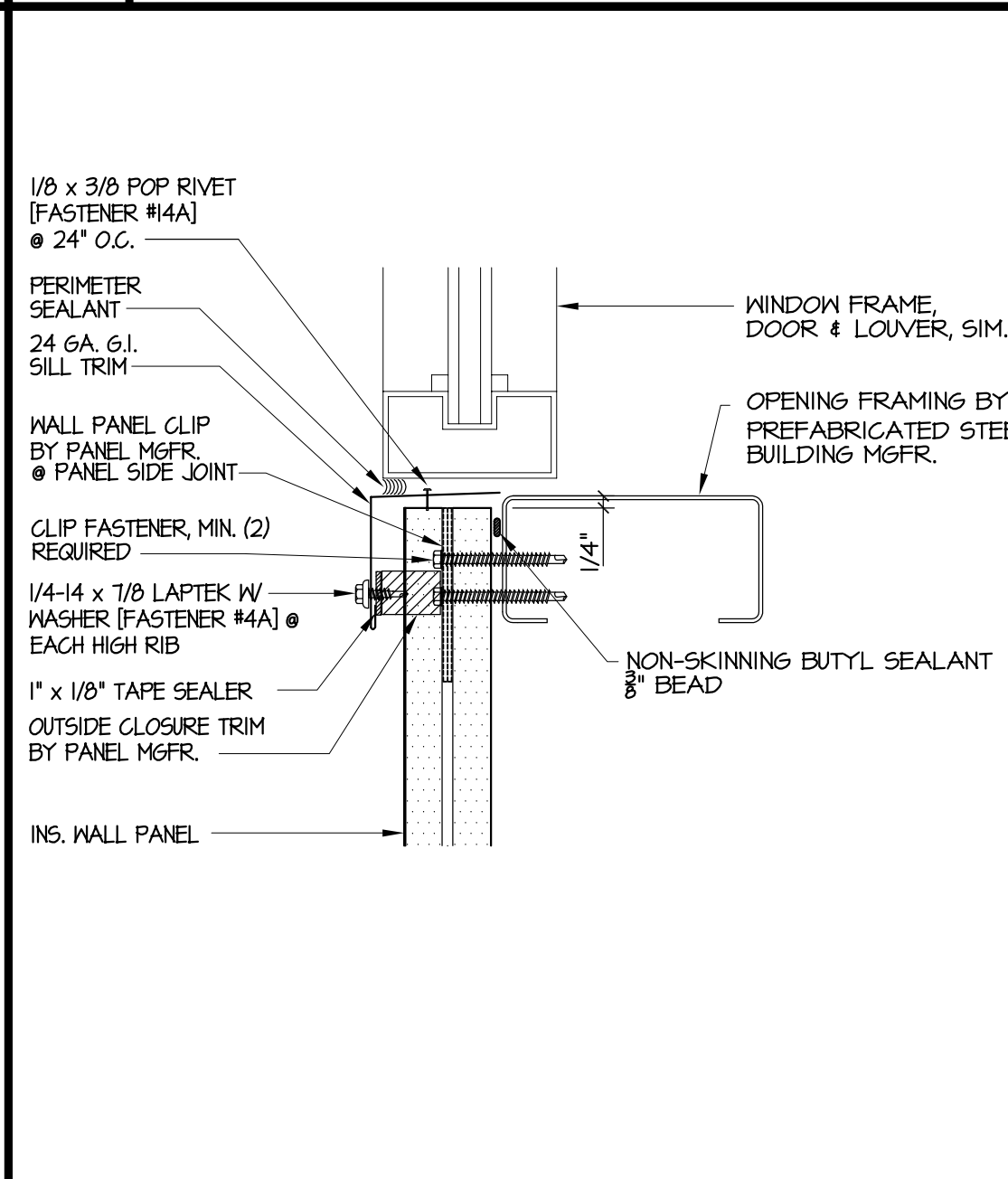
J13 HIGH EAVE DETAIL



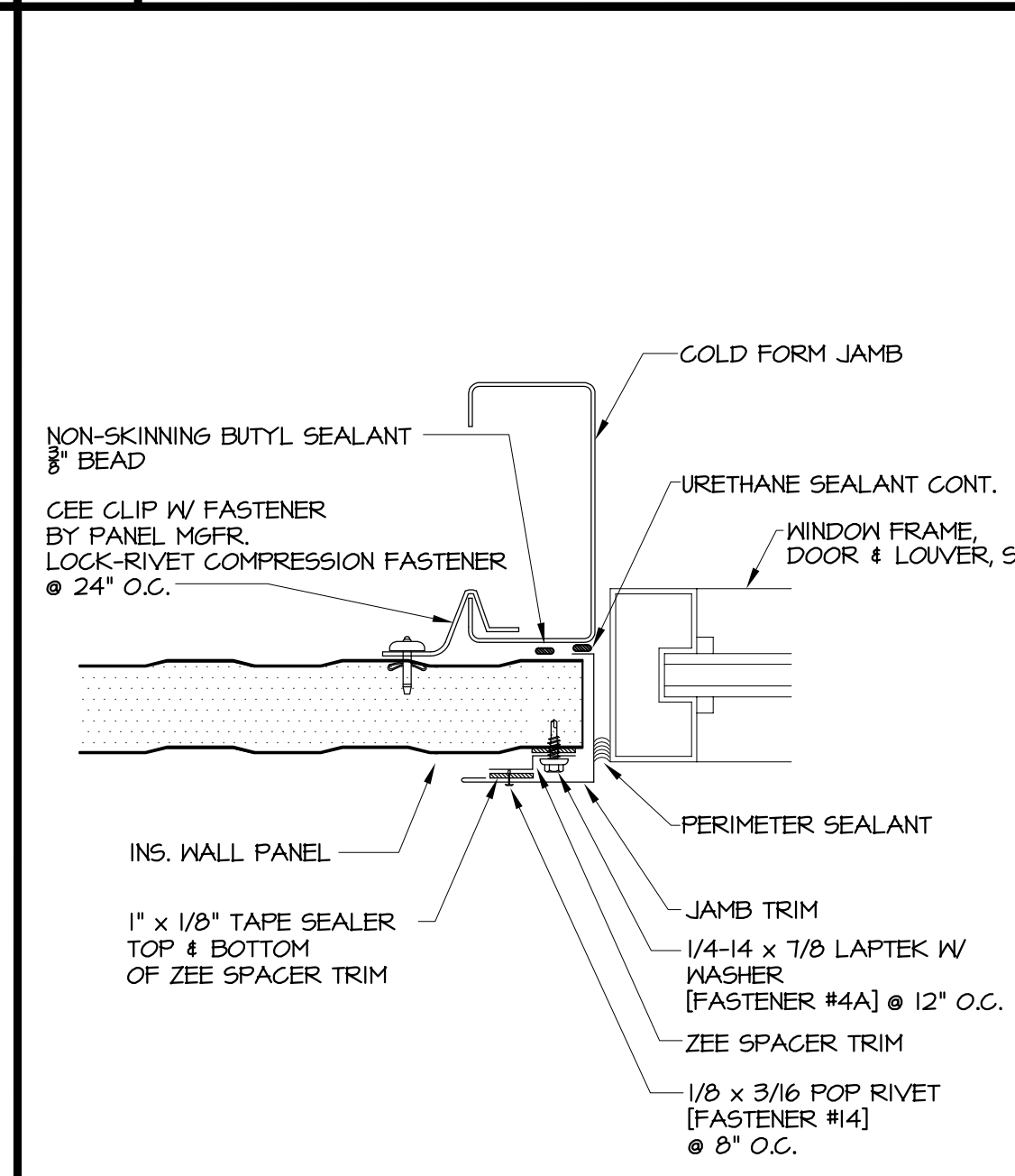
E4 TYP. THRESHOLD DETAIL



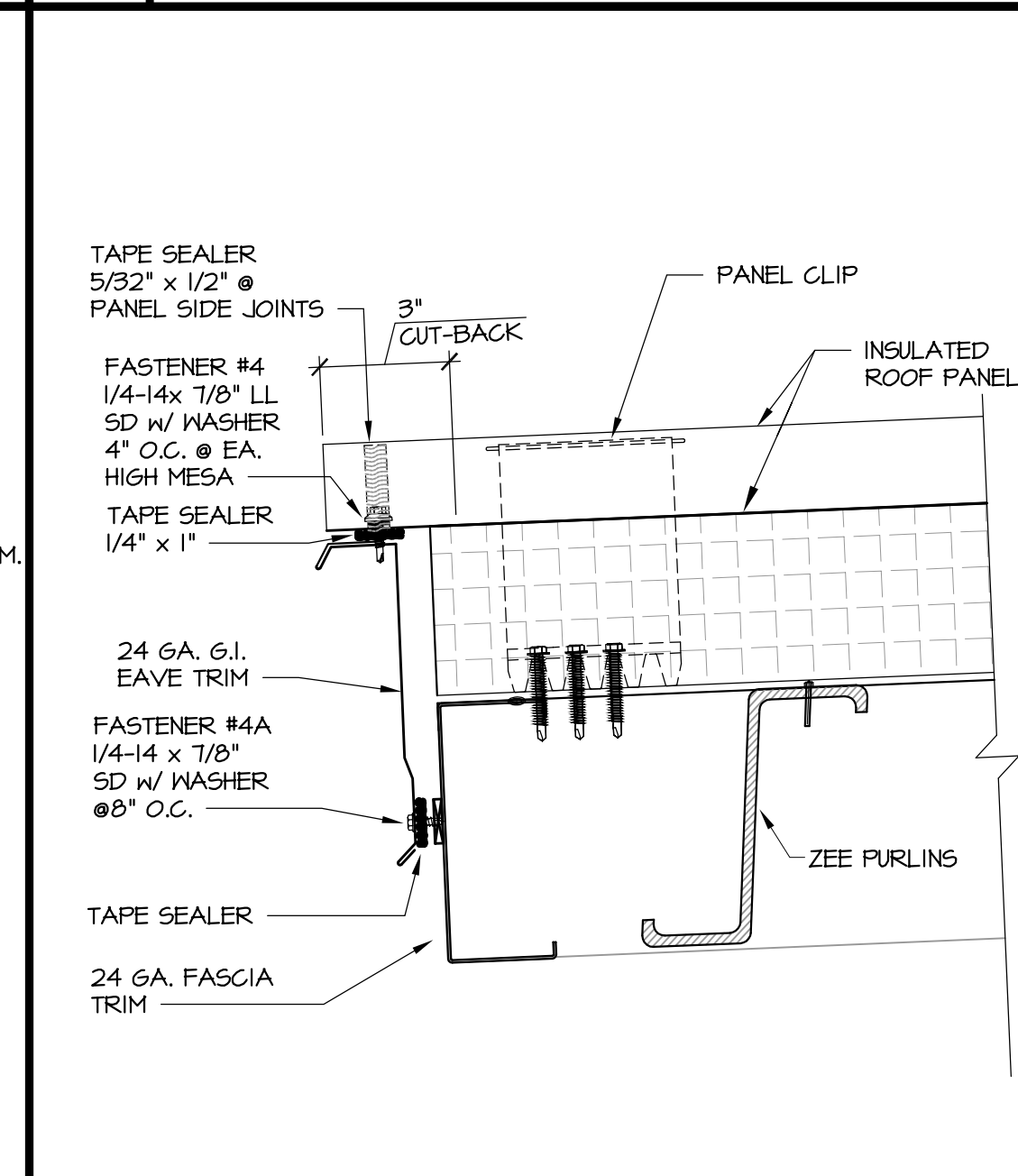
E7 WINDOW SILL DETAIL



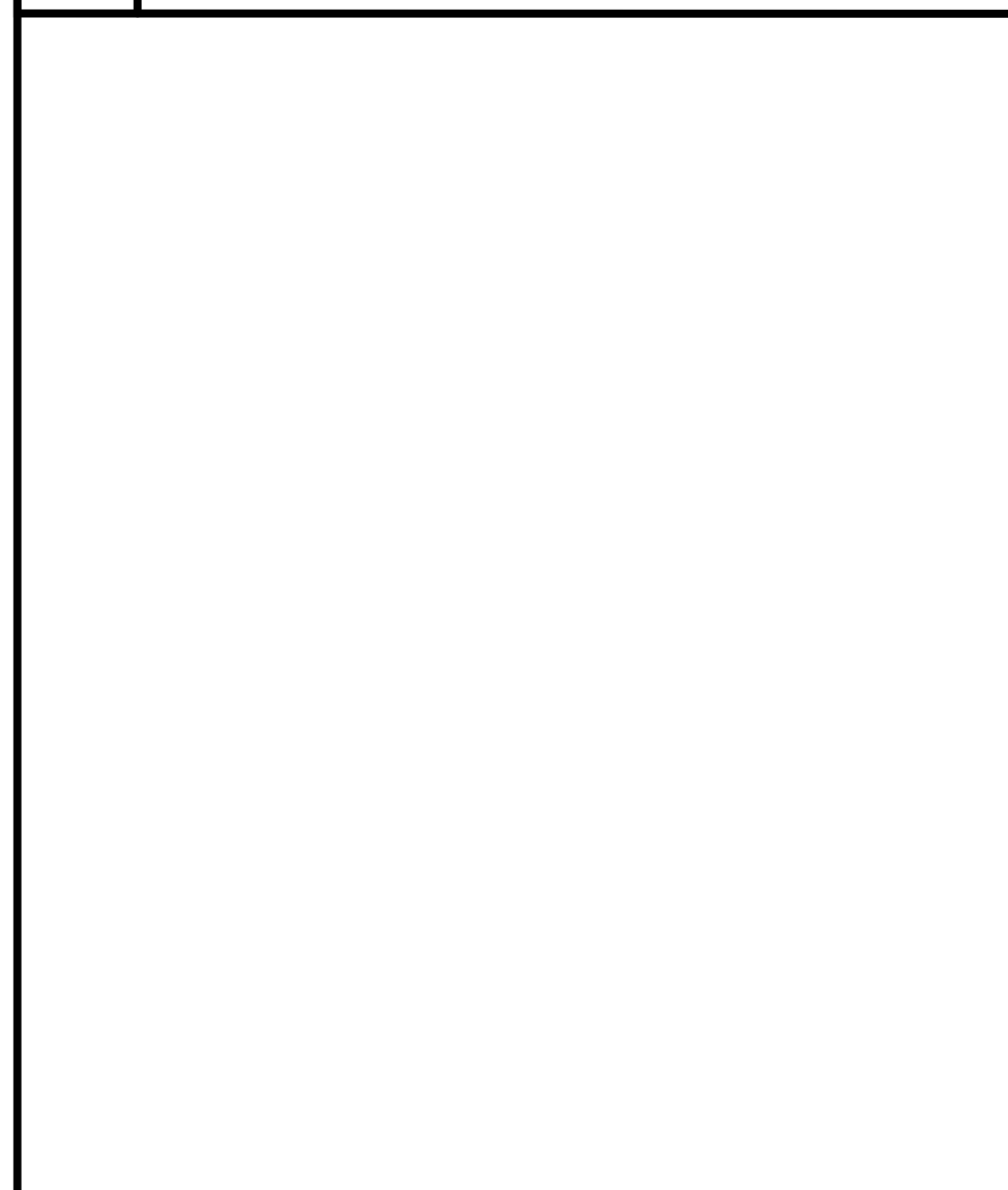
E10 JAMB DETAIL



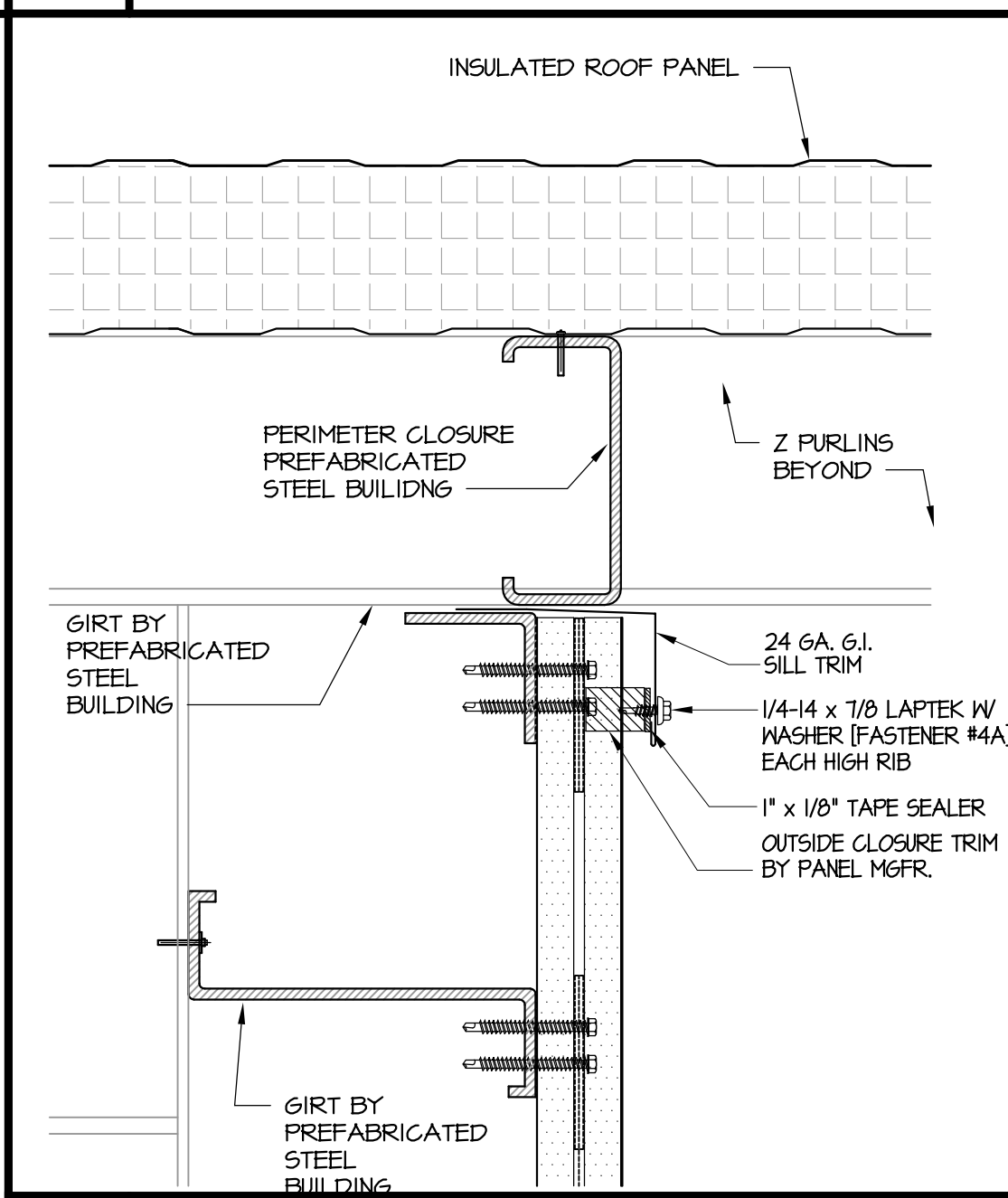
E13 LOW EAVE DETAIL



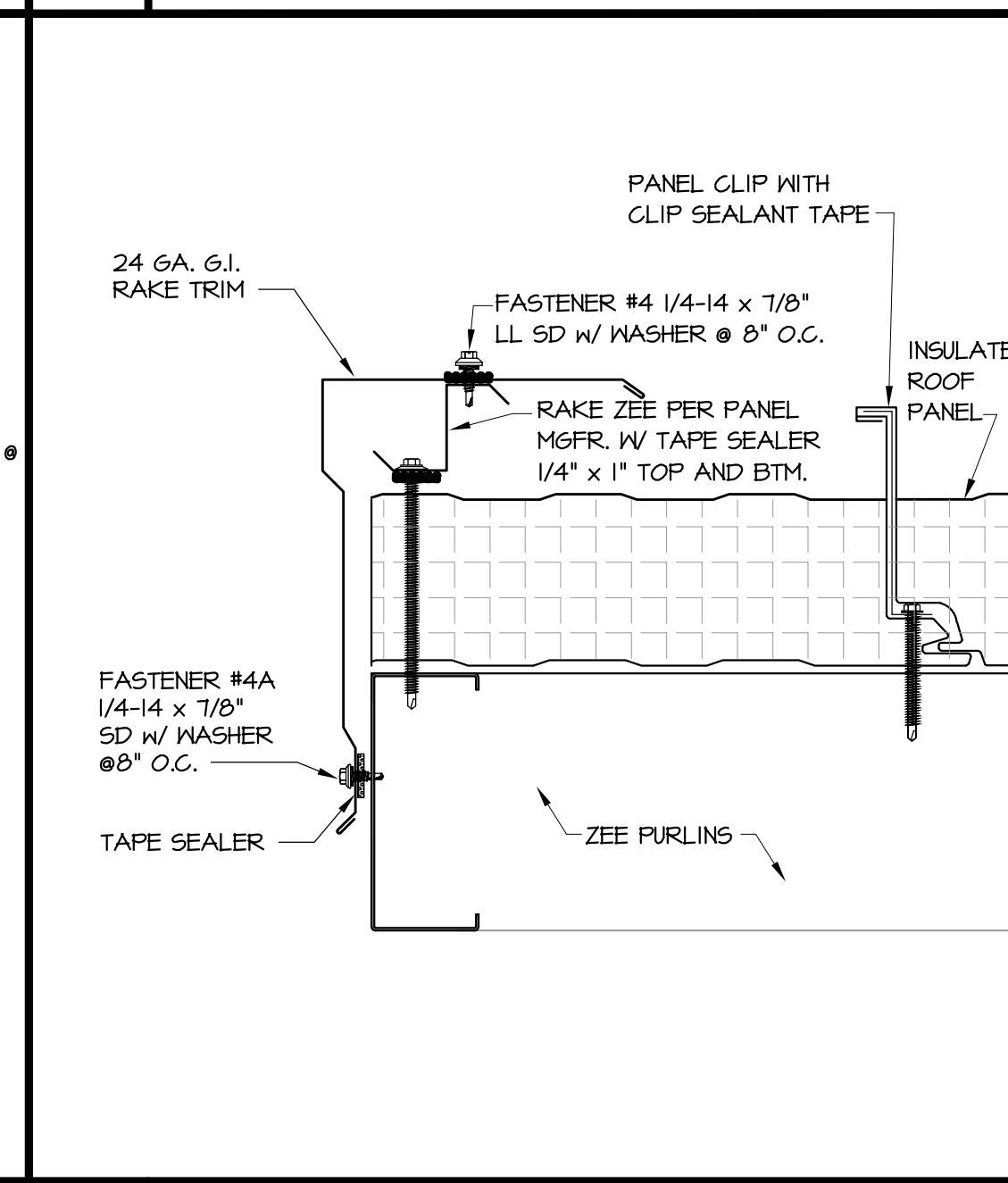
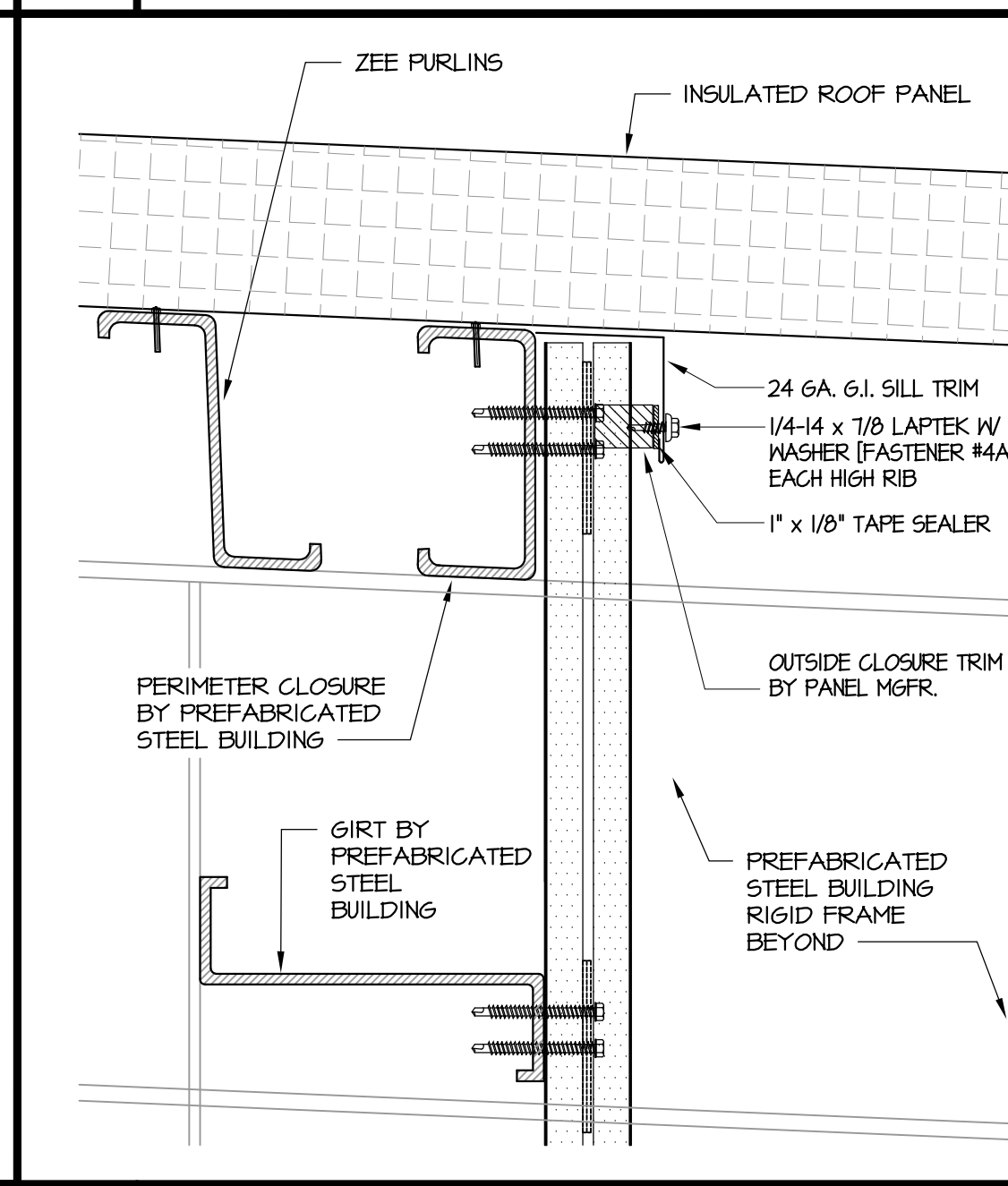
A7 WALL HEAD DETAIL



A10 WALL HEAD DETAIL



A13 RAKE DETAIL



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Project:
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2018 ECC

Sheet Content:
Details

Fresno County Department of
Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A3.3

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)

Y NA RESPON PARTY = YES APPLICABLE RESPONSIBLE PARTY
A = ARCHITECT
E = ENGINEER
O = OWNER
C = CONTRACTOR
I = INSPECTOR

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

Table 5.504.4.1 - Adhesive VOC Limit. Less Water and Less Exempt Compounds in Grams per Liter. Columns: ARCHITECTURAL APPLICATIONS, CURRENT VOC LIMIT. Rows include Indoor Carpet Adhesives, Carpet Pad Adhesives, Outdoor Carpet Adhesives, Wood Flooring Adhesives, Rubber Floor Adhesives, Subfloor Adhesives, Ceramic Tile Adhesives, VCT & Asphalt Tile Adhesives, Drywall & Panel Adhesives, Cove Base Adhesives, Multipurpose Construction Adhesives, Structural Glazing Adhesives, Single-Ply Roof Membrane Adhesives, Other Adhesives not specifically listed, Specialty Applications (PVC Welding, CPVC Welding, ABS Welding, Plastic Cement Welding, Adhesive Primer for Plastic, Contact Adhesive, Special Purpose Contact Adhesive, Structural Wood Member Adhesive, Top & Trim Adhesive), Substrate Specific Applications (Metal to Metal, Plastic Foams, Porous Material (except wood), Wood, Fiberglass).

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTMLR1168.PDF

Table 5.504.4.2 - Sealant VOC Limit. Less Water and Less Exempt Compounds in Grams per Liter. Columns: SEALANTS, CURRENT VOC LIMIT. Rows include Architectural, Marine Deck, Nonmembrane Roof, Roadway, Single-Ply Roof Membrane, Other, Sealant Primers (Nonporous, Porous, Modified Bituminous, Marine Deck, Other).

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.2.1, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for VOC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(a)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 9 Rule 43.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Table with columns: COATING CATEGORY, CURRENT VOC LIMIT. Rows include Flat Coatings (50), Nonflat Coatings (100), Nonflat High Gloss Coatings (150), Specialty Coatings (Aluminum Roof Coatings: 400, Basement Specialty Coatings: 400, Bituminous Roof Coatings: 50, Bituminous Roof Primers: 350, Bond Breakers: 350, Concrete Curing Compounds: 350, Concrete/Masonry Sealers: 100, Driveway Sealers: 50, Dry Fog Coatings: 150, Faux Finishing Coatings: 350, Fire Resistive Coatings: 350, Floor Coatings: 100, Form-Release Compounds: 250, Graphic Arts Coatings (Sign Paints): 500, High-Temperature Coatings: 420, Industrial Maintenance Coatings: 250, Low Solids Coatings: 120, Magnesite Cement Coatings: 450, Mastic Texture Coatings: 100, Metallic Pigmented Coatings: 500, Multicolor Coatings: 250, Pretreatment Wash Primers: 420, Primers, Sealers, & Undercoaters: 100, Reactive Penetrating Sealers: 350, Recycled Coatings: 250, Roof Coatings: 50, Rust Preventative Coatings: 250, Shellacs (Clear: 730, Opaque: 550), Specialty Primers, Sealers & Undercoaters: 100, Stains: 250, Stone Consolidants: 450, Swimming Pool Coatings: 340, Traffic Marking Coatings: 100, Tub & Tile Refinish Coatings: 420, Waterproofing Membranes: 250, Wood Coatings: 275, Wood Preservatives: 350, Zinc-Rich Primers: 340.

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

- 1. Carpet and Rug Institute's Green Label Plus Program.
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350).
3. NSF/ANSI 140 at the Gold level or higher.
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17CCR 93120 et seq.). These materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- 1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 SS standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS: MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

Table with columns: PRODUCT, CURRENT LIMIT. Rows include Hardwood Plywood Veneer Core (0.05), Hardwood Plywood Composite Core (0.05), Particle Board (0.09), Medium Density Fiberboard (0.11), Thin Medium Density Fiberboard (0.13).

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.15.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

- 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 1203, (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 1203(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACoustical CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- 1. Within the 65 CNEL noise contour of an airport.
Exceptions:
1. L₅₀ or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLUZ) plan.
2. L₅₀ or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L₅₀ noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L₅₀-1hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the California Mechanical Code and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain levers. Chain levers, chain levers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated with non-corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- 1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide industry consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide industry consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

Professional seal for Tiana L. Perez, Licensed Architect, State of California, No. C-38000. Includes contact information for Fresno County Department of Public Works & Planning.

Project: Fresno County Environmental Compliance Center Phase 3: Warehouse Building

Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date: Project No. T90203
File Path: G:\Capital Projects\Building Numbers\1 American Ave Landfill\T90203 Environmental Compliance Center\00 2018 ECC

Sheet Content: CAL GREEN COMPLIANCE SHEET 3

Fresno County Department of Public Works and Planning Capital Projects logo and address: 2220 Tulare Street, 8th Floor, Fresno, California 93721

Sheet No. A4.3

STRUCTURAL NOTES, CONTINUED

STRUCTURAL STEEL AND WELDING

- All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
 - All structural steel shall be fabricated in an approved fabrication shop. Inspection and approval of fabrication shops shall conform to CBC Section 1704.2.5.

- All structural steel shall conform to the following specifications:

Steel Shape	ASTM Specification	Min. Yield Stress, F _y (ksi)
Angle, Channel	A36	36
Plates, Bars, Rounds	A36	36
Wide Flange	A992	50
Pipe	A53, Grade B	35
HSS Tube	A500, Grade B	46
HSS Round	A500, Grade B	42

- Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17.
- All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
- All welding shall be performed by welders with current AWS certification for weld procedures used.
- No field welding permitted, unless specifically noted otherwise.
- Shop drawings for the fabrication of structural steel shall be submitted to Engineer of Record for their review, prior to fabrication.
- No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
- All structural steel shall be painted one shop coat and field touched-up, as necessary, with approved "Zinc Rich" or other high quality exterior primer.
- All bolts shall conform to ASTM A325, unless noted or detailed otherwise.

- All welding shall conform to AWS D1.1 and D1.8 specifications for welding. (E-70XX Electrodes).
- All headed studs (for concrete anchorage) shall be manufactured by Nelson or approved equal.
- Where fillet weld size is not indicated, use AWS minimum size, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-16), Section J2.2.
- All butt welds to be complete joint penetration, unless noted otherwise.
- Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel as outlined in the steel deck section) shall conform to CBC Sections 1705.2 and 2204.1.
- Provide hot dip galvanizing or 3" minimum concrete cover around all structural steel below grade.
- Structural steel embedded into concrete or masonry shall be unpainted.
- ASTM A1852 bolts are an acceptable substitution for A325 bolts at concealed connections.

METAL BUILDING SYSTEM

- The metal building system as described within these notes, plans and details shall be designed and manufactured by _____, or equivalent as approved by the Engineer of Record.
- Shop drawings and stamped calculations shall be submitted to the Authority Having Jurisdiction and the Engineer of Record for their review, prior to fabrication. Calculations shall be stamped and signed by a Civil or Structural Engineer licensed in the state of the project jurisdiction.
- The metal building system shall consist of the following components (but not limited to):
 - Structural steel rigid frames
 - Lateral (wind/seismic) bracing systems, perpendicular to steel rigid frames
 - Roof purlins/eaves
 - Roof bracing systems
 - Roof decking
 - Wall framing systems
 - Anchor bolts, and all other hardware required for assembly, bracing and securing.
- The Contractor shall take care to coordinate between metal building system and other framing systems.
- The Contractor shall notify Engineer of Record of any discrepancies between metal building system and other framing systems.
- Prior to excavation of foundation system, contractor shall verify anchor bolt size & locations with metal building system.

SPECIAL INSPECTION

GENERAL NOTES

- All Special Inspection shall be provided in accordance with CBC Section 1704 and 1705.
- Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702.1, 1703.1 and 1704.1.
- Special Inspectors shall keep records of inspections. The Special Inspector shall furnish inspection reports to the Authority Having Jurisdiction, and to the Architect or Engineer of Record. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to the Architect or Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Authority Having Jurisdiction prior to the start of work.
- Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704.2.1.
- Local Authority Having Jurisdictions may require Special Inspection for "Special Cases" in accordance with CBC Section 1705.1.1
- Contractor's responsibility: Each contractor responsible for the construction of a Main Lateral-Force-Resisting System, listed in the Statement of Special Inspection shall submit a written statement of responsibility to the Authority Having Jurisdiction and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following:
 - Acknowledgement of awareness of the special requirements contained in the statement of special inspections.
 - Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Authority Having Jurisdiction;
 - Procedures for exercised control within the contractor's organization, the method and frequency of reporting and the distribution of the reports; and
 - Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.
- Refer to Special Inspection requirements by other disciplines not included herein.

SOILS^a

Verification and Inspection

- | Verification and Inspection | Cont. | Periodic |
|--|-------|----------|
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | | ✓ |
| 2. Verify excavations are extended to proper depth and have reached proper material. | | ✓ |
| 3. Perform classification and testing of compacted fill materials. | | ✓ |
| 4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. | ✓ | b |
| 5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. | | ✓ |
- Notes: Soils
- CBC Section 1705.6 and Table 1705.6
 - With the approval of the Authority Having Jurisdiction and the recommendation of the Geotechnical Engineer of Record, Special Inspection of grading operations may be periodic per CBC Section 1704.2, Exception 1.

SPECIAL CASES

Verification and Inspection

- | Verification and Inspection | Cont. | Periodic |
|--|-------|----------|
| Adhesive anchors (Epoxy) | | |
| 1. Inspection of anchors installed in hardened concrete. Installed in horizontally or upwardly inclined orientations to resist sustained tension loads. (Concrete shall be cured for a minimum of 21 days) | ✓ | |
| 2. All other installations of adhesive anchors. | | ✓ |
| Mechanical anchors | | |
| 1. Inspection of anchors installed in hardened concrete. | | ✓ |

CONCRETE CONSTRUCTION^{a,c}

- | Verification and Inspection | Cont. | Periodic | Referenced Standard | 2019 CBC Reference |
|---|-------|----------|---|--------------------------------|
| 1. Inspection of reinforcing steel including prestressing tendons, and placement. | | ✓ | ACI 318: Ch. 20, 25.2, 25.3, 26.6.1 - 26.6.3 | 1908.4 |
| 2. Reinforcing bar welding: | | | | |
| a. Verify weldability of reinforcing bar other than ASTM A706 | | ✓ | AWS D1.4 | |
| b. Inspect single-pass fillet welds, maximum 3/16" | | ✓ | ACI 318: 26.6.4 | |
| c. Inspect all other welds. | ✓ | | | |
| 3. Inspection of anchors cast in concrete. | | ✓ | ACI 318: 17.8.2 | |
| 4. Inspect anchors post-installed in hardened concrete member. ^{b,d} | | | | |
| a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. | ✓ | | ACI 318: 17.8.2.4 | |
| b. Mechanical anchors and adhesive anchors not defined in 4.a. | | ✓ | ACI 318: 17.8.2 | |
| 5. Verifying use of required design mix. | | ✓ | ACI 318: Ch. 19, 26.4.3, 26.4.4 | 1904.1, 1904.2, 1908.2, 1908.3 |
| 6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | ✓ | | ASTM C172
ASTM C31
ACI 318: 26.5
26.12 | 1908.10 |
| 7. Inspection of concrete and shotcrete placement for proper application techniques. | ✓ | | ACI 318: 26.5 | 1908.6, 1908.7, 1908.8 |
| 8. Verify maintenance of specified curing temperature and techniques. | ✓ | | ACI 318: 26.5.3 - 26.5.5 | 1908.9 |
| 9. Inspection of prestressed concrete: | | | | |
| a. Application of prestressing forces | ✓ | | ACI 318: 26.10 | |
| b. Grouting of bonded prestressing tendons. | ✓ | | | |
| 10. Inspect erection of precast concrete members. | ✓ | | ACI 318: 26.9 | |
| 11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs. | ✓ | | ACI 318: 26.11.12 | |
| 12. Inspect formwork for shape, location and dimensions of the concrete member being formed. | ✓ | | ACI 318: 26.11.1.2 (b) | |

Notes: Concrete Construction

- Where applicable, see also CBC Section 1705.12, Special Inspections for seismic resistance
- Specific requirements for Special Inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 318-14 Section 17.8.2 or other requirements. Where specific requirements are not provided, Special Inspection requirements shall be specified by the Registered Design Professional and shall be approved by the Building Official prior to the commencement of the work.
- CBC Section 1705.3 and Table 1705.3
- See Special Cases Special Inspection for more requirements

STEEL CONSTRUCTION^{a,b}

- | Verification and Inspection | Cont. | Periodic |
|---|-------|----------|
| Required verification and inspection of steel construction | | |
| 1. Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers: | | |
| a. For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required. | | ✓ |
| 2. Material verification of structural steel or cold-form steel deck: | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents. | | ✓ |
| b. Manufacturer's certified test reports. | | ✓ |
| 3. Inspection of high-strength bolting: | | |
| a. Snug-tight joints | | ✓ |
| b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist off bolt or direct tension indicator methods of installation | | ✓ |
| c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation | ✓ | |
| 4. Material verification of weld filler materials: | | |
| a. Identification markings to conform to AWS specification in the approved Construction Documents | | ✓ |
| b. Manufacturer's certificate of compliance required | | ✓ |
| 5. Inspection of welding: | | |
| a. Structural steel and cold formed steel deck: | | |
| 1) Complete and partial joint penetration groove welds | ✓ | |
| 2) Multi-pass fillet welds | ✓ | |
| 3) Single-pass fillet welds > 3/16" | ✓ | |
| 4) Plug and slot welds | ✓ | |
| 5) Single-pass fillet welds < 3/16" | | ✓ |
| 6) Floor and roof deck welds ^e | | ✓ |
| b. Reinforcing steel: ^d | | |
| 1) Verification of weldability of reinforcing steel other than ASTM A706. | | ✓ |
| 2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. | ✓ | |
| 3) Shear reinforcement | ✓ | |
| 4) Other reinforcing steel | | ✓ |
| 6. Inspection of steel frame joint details for compliance: | | |
| a. Details such as bracing and stiffening | | ✓ |
| b. Member locations | | ✓ |
| c. Application of joint details at each connection | | ✓ |
| Inspection tasks prior to welding | | |
| 1. Welder qualification records and continuity records | | ✓ |
| 2. Welding procedure specifications (WPS) available | ✓ | |
| 3. Manufacturer certifications for welding consumables available | ✓ | |
| 4. Material identification (type/grade) | | ✓ |
| 5. Welder identification system ^e | | ✓ |
| 6. Fit-up of groove welds (including joint geometry): Joint preparation, dimensions, cleanliness, tacking, backing type and fit | | ✓ |
| 7. Configuration and finish of access holes | | ✓ |
| 8. Fit-up of fillet welds: Dimensions, cleanliness, tacking | | ✓ |
| 9. Check welding equipment | | |
| Inspection tasks during welding | | |
| 1. Control and handling of welding consumables: Packaging, exposure control | | ✓ |
| 2. No welding over cracked tack welds | | ✓ |
| 3. Environmental conditions: Wind speed within limits, precipitation and temperature | | ✓ |

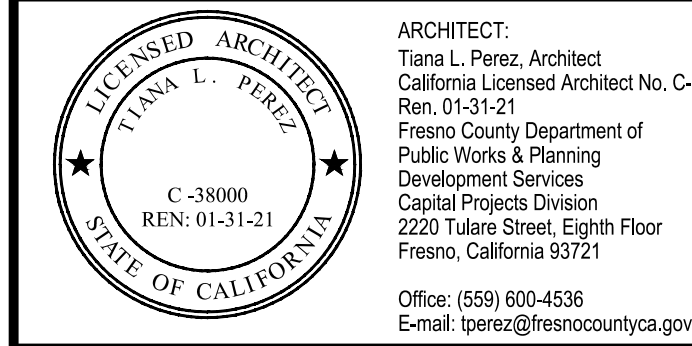
STEEL CONSTRUCTION, CONTINUED

- | Verification and Inspection | Cont. | Periodic |
|--|----------------------|----------------------|
| Inspection tasks during welding (Continued) | | |
| 4. WPS followed: Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max., proper position (F, V, H, OH) | | ✓ |
| 5. Welding techniques: Interpass and final cleaning, each pass within profile limitations | | ✓ |
| 6. Placement and installation of steel headed stud anchors | ✓ | |
| Inspection tasks after welding | | |
| 1. Welds cleaned | | ✓ |
| 2. Size, length and location of welds | | ✓ |
| 3. Welds meet visual acceptance criteria: Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity | ✓ | |
| 4. Arc strikes | | ✓ |
| 5. k-Area ^f | | ✓ |
| 6. Weld access holes in heavy shapes and built-up heavy shapes ^h | ✓ | |
| 7. Backing removed and weld tabs removed (if required) | ✓ | |
| 8. Repair activities | ✓ | |
| 9. Document acceptance or rejection of welded joint or member | ✓ | |
| 10. No prohibited welds have been added without the approval of the EOR | | ✓ |
| Inspection tasks prior to bolting ^g | | |
| 1. Manufacturer's certifications available for fastener materials | ✓ | |
| 2. Fasteners marked in accordance with ASTM requirements | | ✓ |
| 3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | | ✓ |
| 4. Proper bolting procedure selected for joint detail | | ✓ |
| 5. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | | ✓ |
| 6. Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used | | ✓ |
| 7. Proper storage provided for bolts, nuts, washer and other fastener components | | ✓ |
| Inspection tasks during bolting | | |
| 1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required | | ✓ |
| 2. Joint brought to the snug-tight condition prior to the pretensioning operation | | ✓ |
| 3. Fastener component not turned by the wrench prevented from rotating | | ✓ |
| 4. Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below | | ✓ |
| Inspection tasks after bolting | | |
| 1. Document acceptance or rejection of bolted connections | ✓ | |
| Notes: Steel Construction | | |
| a. CBC Section 1705.2 and Table 1705.2.2 | | |
| b. CBC Section 1707.11.1 | | |
| c. AWS D1.3 | | |
| d. AWS D1.4, ACI 318: Section 3.5.2 | | |
| e. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type. | | |
| f. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches of the weld | | |
| g. All methods of installation for high strength bolts shall require verification of pre-tension by a Skidmore-Welhelm callibrator for each batch or source of bolts used (see minimum pre-tension chart below). | | |
| h. After rolled shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks | | |
| Minimum Bolt Pretension (kips) | | |
| Bolt size inches | Group A (A325, etc.) | Group B (A490, etc.) |
| 1/2" Diameter | 12 | 15 |
| 3/8" Diameter | 19 | 24 |
| 1/4" Diameter | 28 | 35 |
| 3/8" Diameter | 39 | 49 |
| 1" Diameter | 51 | 64 |
| 1 1/2" Diameter | 56 | 80 |
| 1 3/4" Diameter | 71 | 102 |
| 1 7/8" Diameter | 85 | 121 |
| 2" Diameter | 103 | 148 |



SSG Structural Engineers, LLP
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811 E. Capitol Way, Suite 240
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840 N. Fresno Street, Suite 122
Fresno, CA 93720

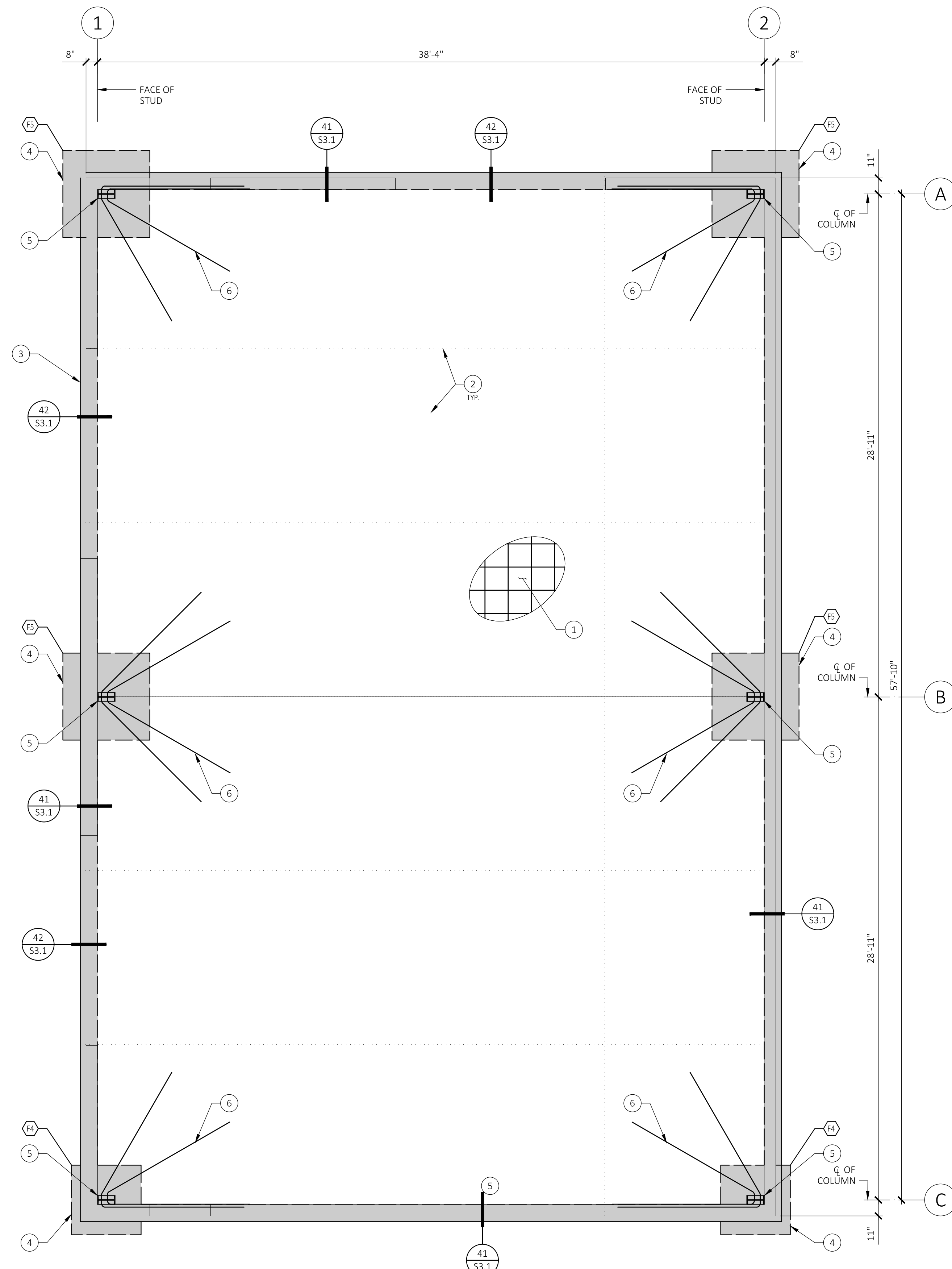
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Project:
Fresno County
Environmental Compliance Center
Warehouse
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date: 07/21/2020
Project No. S19406C

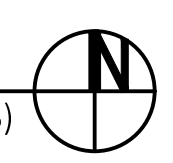
Sheet Content:
STRUCTURAL NOTES
Fresno County Department of Public Works and Planning Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:
S1.2



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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)



GENERAL FOUNDATION NOTES:

- A. See Structural Notes, Sheets S1.1 & S1.2
- B. Dimensions are to face of concrete, U.N.O.
- C. The foundation design is based on the minimum requirements outlined in the Project Geotechnical Report by County of Fresno, dated April 22, 2020 (Report No. T90203)
- D. Prior to the Contractor requesting a Building Department Foundation Inspection, the project Geotechnical Engineer shall advise the Building Official in writing that:
 1. The building pad was prepared in accordance with the approved construction documents and project Geotechnical Engineer's recommendations
 2. The utility trenches have been properly backfilled and compacted
 3. The foundation excavations comply with the project Geotechnical Engineer's recommendations and are founded into firm competent material
 4. The soils expansion index is verified
- E. For depiction of building pad preparation, see detail 44/S3.1
- F. See Architectural Drawings for all embedded items and non-structural components associated with concrete work
- G. For typical rebar bends and laps, see details 21, 22, & 23 on sheet S3.1
- H. For typical intersecting footing configuration(s), see detail(s) 14/S3.1
- I. For typical pipe through footing, see detail 11/S3.1

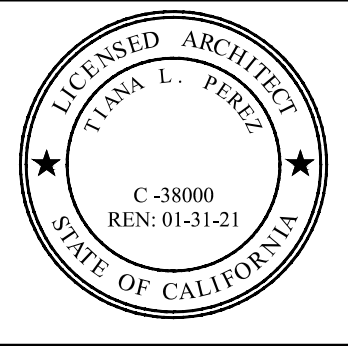
FOUNDATION REFERENCE NOTES:

- 1. 6" Thick concrete slab with #4 horizontal bars @ 12" o.c. each direction at mid-depth
 - A. See detail 12/S3.1
- 2. Concrete Control Joint
 - A. Joints shall be spaced at 10'-0" o.c. max. each direction
 - B. Control joint locations to be confirmed by Architect prior to concrete placement
 - C. See detail 13/S3.1
- 3. Edge of slab on grade
- 4. 30" deep square pad footing w/ #5 horizontal bars @ 9" o.c. each direction, 3" up from the bottom and 3" down from the top
 - A. See plan and footing schedule for minimum footing size
 - B. Centered on column bolt group
 - C. U.N.O. on plan, see detail 43/S3.1 for exterior footing construction and detail 52/S3.1 for interior footing construction
- 5. Steel frame column and bolt group per Metal Building Manufacturer (MBM)
 - A. See anchor bolt plan by MBM for placement
 - B. Embed anchor bolts 2" into first pour footing
 - C. Anchor bolts to be ASTM F1554 Grade 55 all thread rod w/ gage plate & double nut at embedded end per detail 24/S3.1. Bolt diameters shall be as indicated on MBM Anchor Rod Plan
 - D. Special inspection required, see Sheet S1.1
 - E. See detail 24/S3.1 for thrust angle at typical main frame columns
- 6. 2 - #5 hairpins at column anchor bolt group, with 16'-0" legs
 - A. See details 31/S3.1, 32/S3.1



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Project:
Fresno County
Environmental Compliance Center
Warehouse
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date: 07/21/2020
Project No. S19406C

Sheet Content:

FOUNDATION PLAN

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

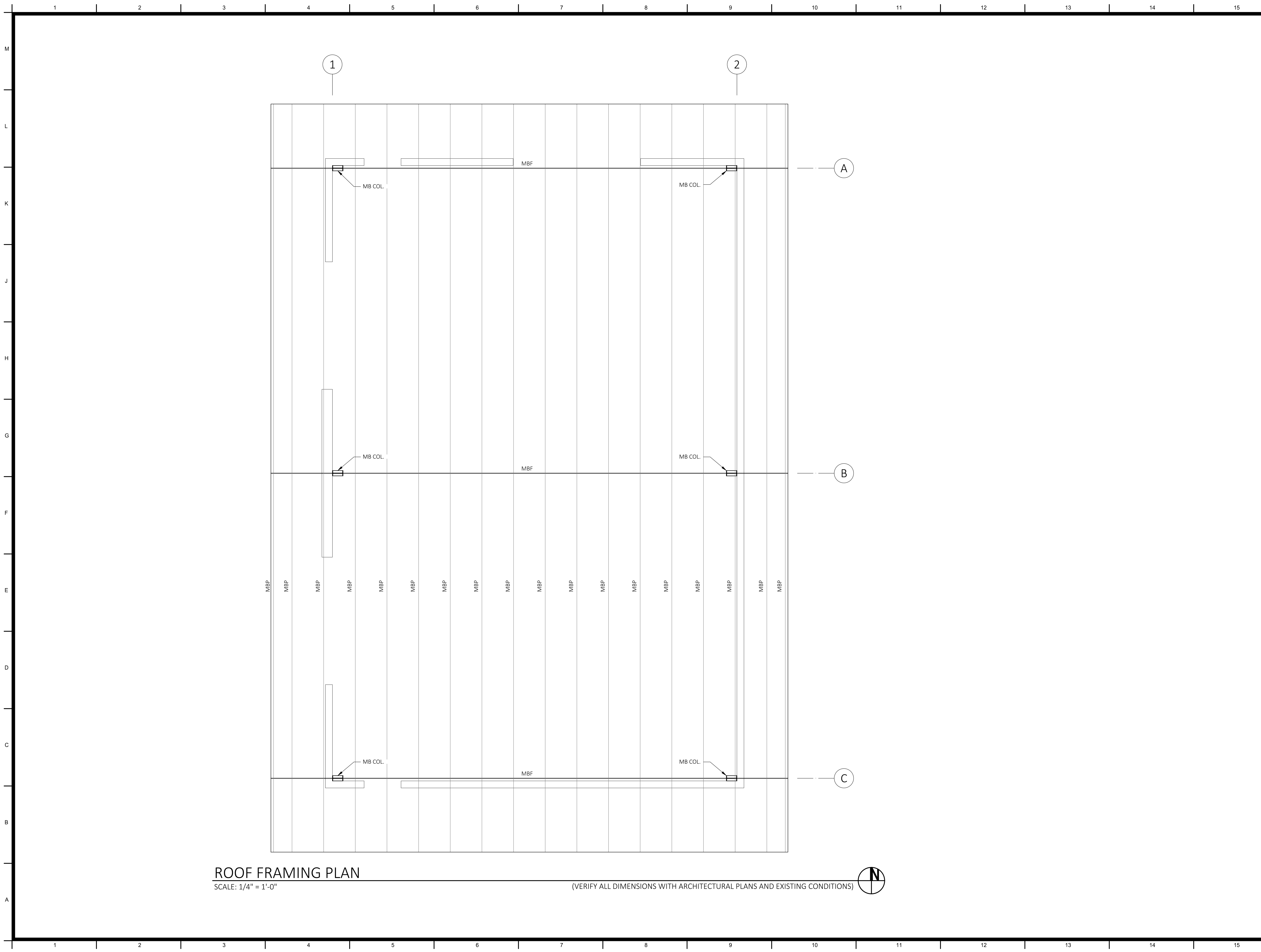


Sheet No.:

S2.1

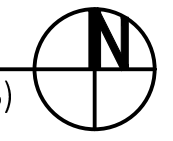
Footing Size and Reinforcing			Allowable Reactions (Service)		
Mark	Dimensions	Reinforcing	Vertical [k]	Uplift [k]	
				Exterior	Corner
F4	4'-0" x 4'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	130.3	-	6.4
F5	5'-0" x 5'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	203.7	11.1	8.2

THE FOUNDATION DESIGN IS BASED ON ASSUMED BUILDING REACTIONS AND ARE SUBJECT TO CHANGE. THE BUILDING REACTIONS SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO PLACING FOOTINGS.



ROOF FRAMING PLAN
 SCALE: 1/4" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

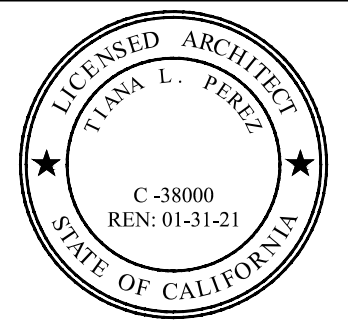


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DATE SIGNED:
 12/01/2020



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Project:

**Fresno County
 Environmental Compliance Center
 Warehouse**
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date: 07/21/2020
 Project No. S19406C

Sheet Content:

ROOF FRAMING PLAN

Fresno County Department of
 Public Works and Planning
 Capital Projects



2220 Tulare Street, 8th Floor
 Fresno, California 93721

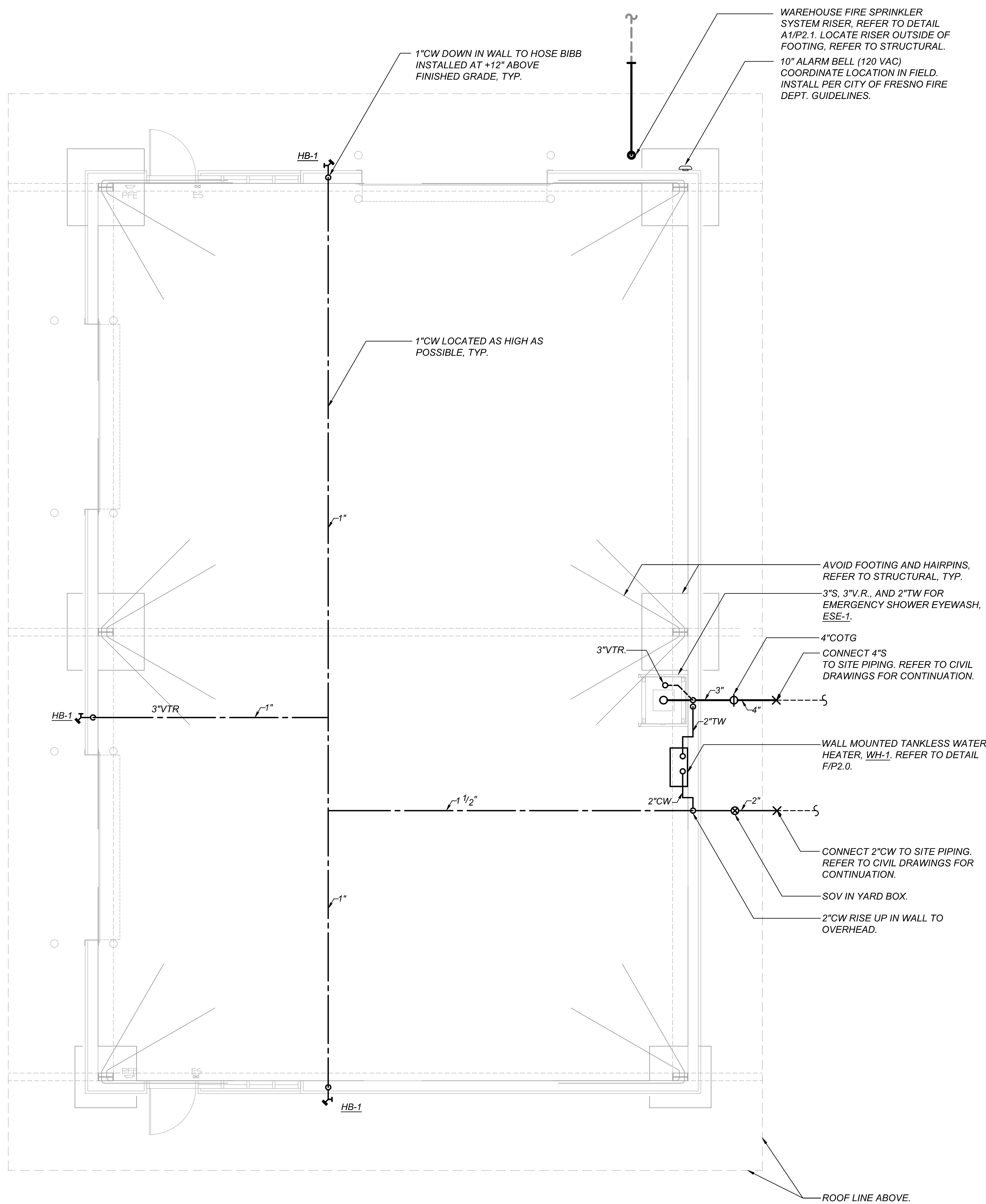
Sheet No.:

S2.2

GENERAL PLUMBING NOTES:

- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24 CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WOULD NOT COMPLY WITH SAID TITLE 24 CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUESTED WORK SHALL BE SUBMITTED TO AND APPROVED BY ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 CALIFORNIA CODE OF REGULATIONS
 TITLE 8, INDUSTRIAL RELATIONS
 TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS
 2019 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
 2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
 2019 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
 2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR

 NFPA 101 2016 EDITION
 OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
- LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE PLUMBING BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED INCLUDING EXISTING PIPE AND CONDUIT THROUGH NEW WALLS AND FLOORS. SEE SPECS. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY. PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CBC SECTION 714 AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE PROVIDED FOR REVIEW BY INSPECTION AUTHORITIES. SUBSTITUTIONS OF OR REVISIONS OR ADDITIONS TO APPROVED SYSTEMS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD AND THE OSHPD FIRE MARSHAL FOR FIELD REVIEW AND APPROVAL.
- ALL PIPING AND CONDUIT SHALL BE SUPPORTED PER MASON WEST, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED DISTRIBUTION SYSTEMS" 1ST EDITION, 2019. OSHPD PRE-APPROVED ANCHORAGE OPM-0043-13, OR OTHER OSHPD PRE-APPROVED SYSTEM.
- WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.
- INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- INSTALLATION, TYPE AND MANUFACTURERS MODELS OF DOMESTIC WATER METERS, BACKFLOW PREVENTERS, FIRE HYDRANTS, DETECTOR CHECK VALVES, MANHOLES, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCE OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- BACKFLOW PREVENTER SHALL BE INSTALLED AT THE MINIMUM HEIGHT ABOVE FINISH GRADE AS ALLOWED BY GOVERNING AUTHORITY.
- CONTRACTOR SHALL EXCAVATE AND BACKFILL THE GAS SERVICE TRENCH FOR THE LOCAL GAS UTILITY. THE LOCAL GAS UTILITY SHALL INSTALL THEIR GAS SERVICE LINE TO THE GAS METER. TRENCHING SHALL BE IN ACCORDANCE WITH UTILITY STANDARDS. ALL CHARGES AND FEES INCURRED BY THE UTILITY FOR NEW GAS SERVICE SHALL BE PAID BY THE CONTRACTOR.
- ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.



PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
---	SOIL or WASTE	S or W
---	VENT	V
---	VENT RISER	VR
---	VENT THRU ROOF	VTR
---	DOMESTIC COLD WATER	CW
---	DOMESTIC HOT WATER	HW
---	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
CD	CONDENSATE DRAIN	CD
---	EXISTING PIPING	
⊕	FLOOR CLEANOUT	FCO
⊕	CLEANOUT TO GRADE	COTG
H	WALL CLEANOUT	WCO
○	PIPING TURN UP	
○	PIPING TURN DOWN	
X	POINT OF CONNECTION	POC
(N)	NEW	
(E)	EXISTING	
	ABOVE CEILING	ABV CLG
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	TYPICAL	TYP
	CONTINUATION	CONT
⊗	SHUT-OFF VALVE IN BOX	SOV
⊗	SHUT-OFF VALVE	SOV
⊗	CHECK VALVE	
⊗	PLUG VALVE	
F	FIRE PROTECTION LINE	
RWL	RAIN WATER LEADER	RWL
OD	OVERFLOW DRAIN	OD
SD	STORM DRAIN	SD
TW	TEPID WATER	TW
////	DEMOLITION	DEMO



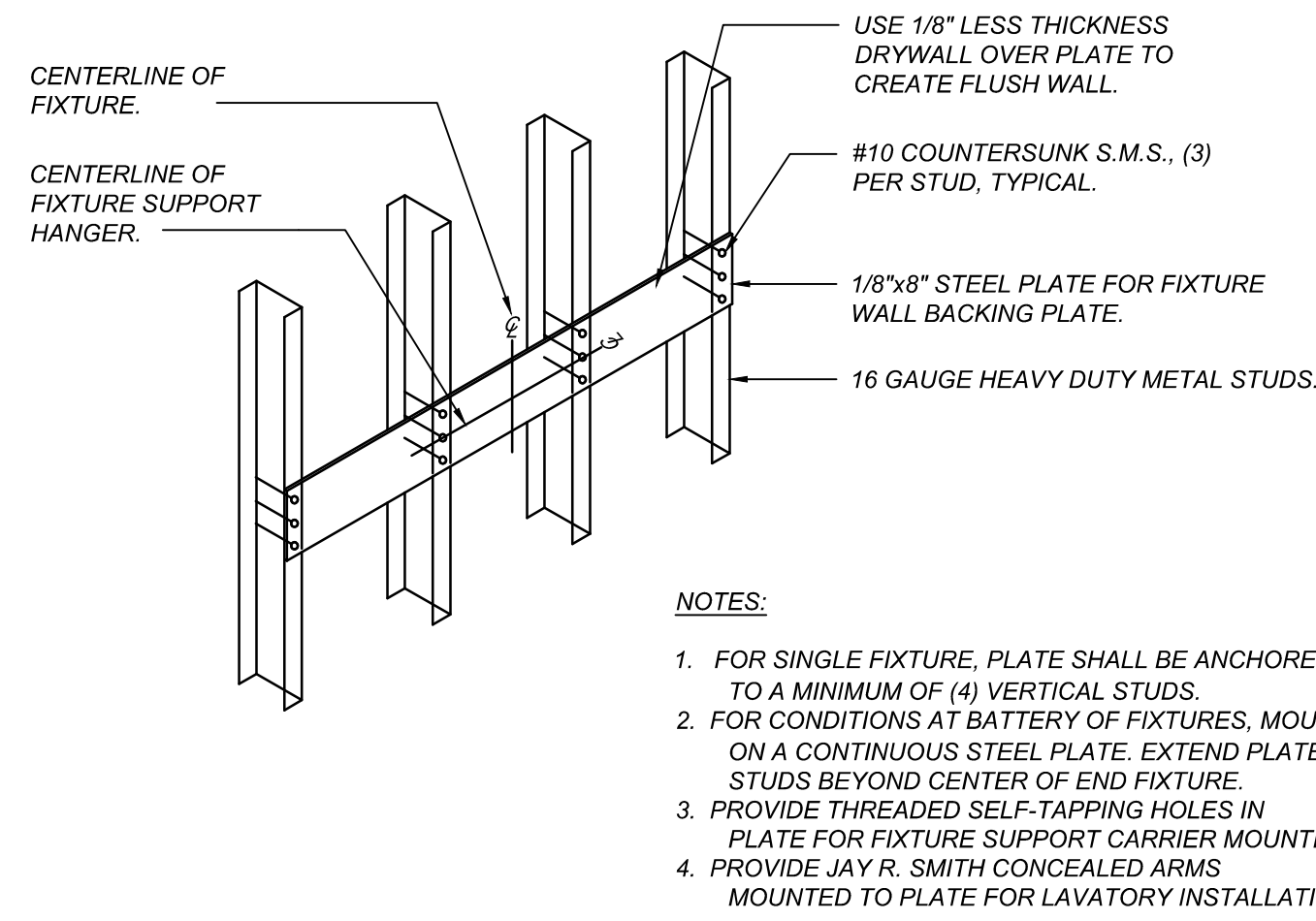
Project:
 Fresno County
 Environmental Compliance Center
 Phase 3 - Warehouse Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American
 Ave Landfill \ T90203 Environmental Compliance Center\ 00
 2018 ECC

Sheet Content:
 WAREHOUSE BUILDING
 PLUMBING PLAN



Sheet No.
P1.3

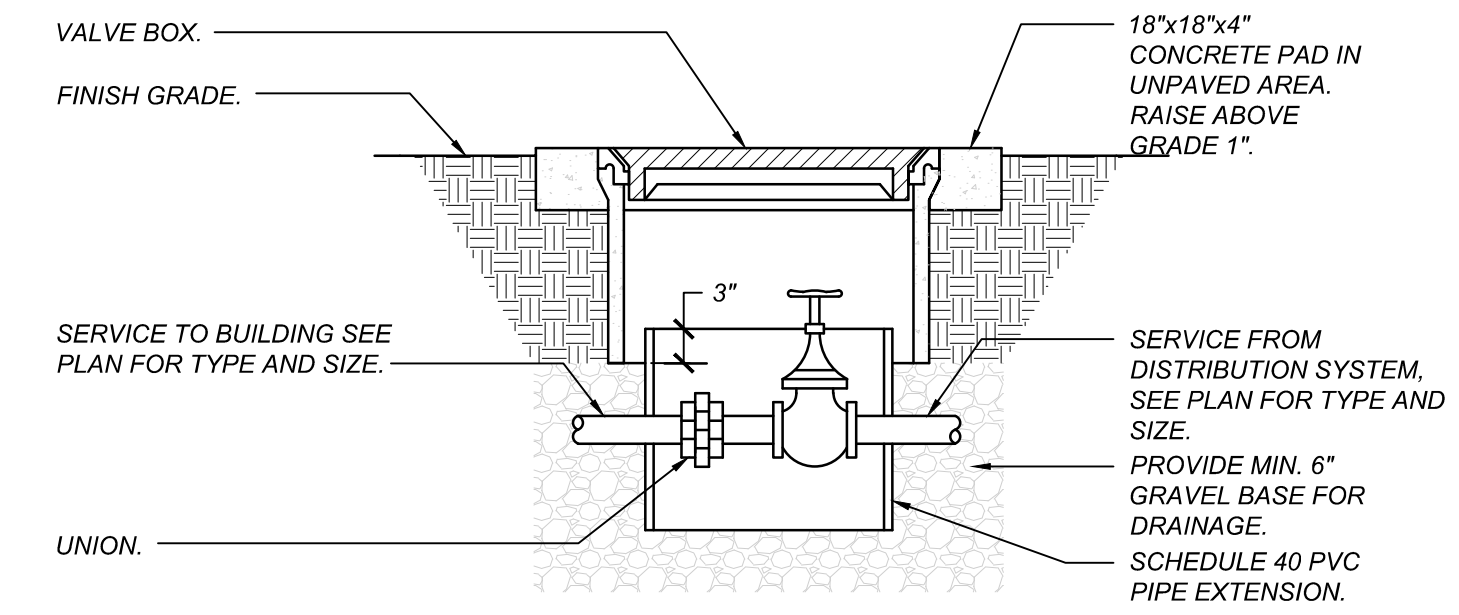
PLUMBING FIXTURE AND EQUIPMENT SCHEDULE						
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
SA-1	SHOCK ABSORBER	-	-	1"	-	JAY R. SMITH #5010, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
ESE-1	EMERGENCY SHOWER EYEWASH	3"	3"	1"	-	HAWS #6506WC BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH BOOTH, REINFORCED MOLDED FIBERGLASS BOOTH, GALVANIZED STEEL FLOOR GRATE, CHROME PLATE BRASS STAY-OPEN SHOWER AND EYEWASH BALL VALVES, AND UNIVERSAL SIGNS. ANCHOR SHOWER BOOTH TO CONCRETE SLAB WITH (4) 1/2"Ø x 3-1/4" MIN. EMBED. PER ESR-1917. HILTI KWIK BOLT TZ CONCRETE ANCHORS.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD #B75 (OR MIFAB EQUAL) RECESSED WALL HOSE BOX WITH LOCKING DOOR, VACUUM BREAKER, LOOSE TEE KEY HANDLE, SCREWDRIVER STOP, SELF DRAINING CAST STAINLESS STEEL FOR NON-FREEZE AREAS.
WH-1	TANKLESS WATER HEATER (WAREHOUSE)	-	-	1-1/4"	1-1/4"	EEMAX #AP041208-EFD-N4X TANKLESS WATER HEATER WITH STAINLESS STEEL NEMA-4X ENCLOSURE, 1.0 GPM ACTIVATION FLOW, 12°F RISE AT 23 GPM FLOW, WALL-MOUNTED. PROVIDE STEEL BACKING PLATES PER DETAIL D/P-2.0 FOR MOUNTING ON WALL. ELECTRICAL REQUIRED: 41 KW, 208V / 3Ø WEIGHT: 150 LBS



FIXTURE SUPPORT BACKING PLATE

SCALE: N.T.S.

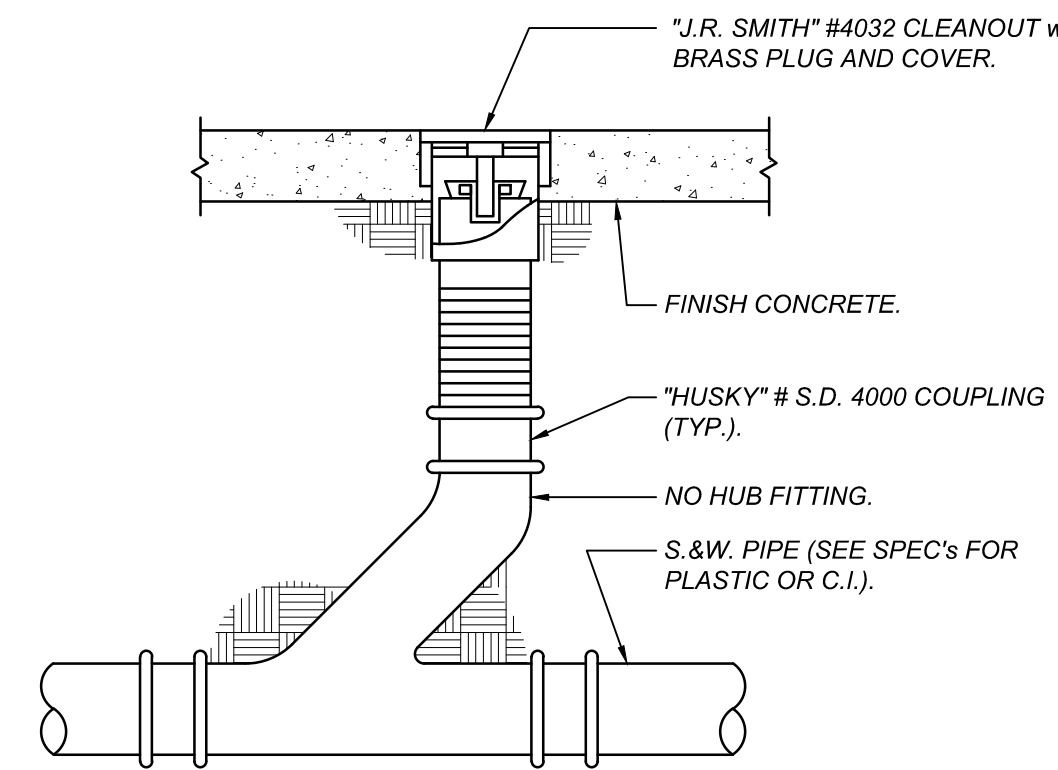
D
P-2.0



SHUT-OFF VALVE IN YARD BOX

SCALE: DIAGRAMATIC

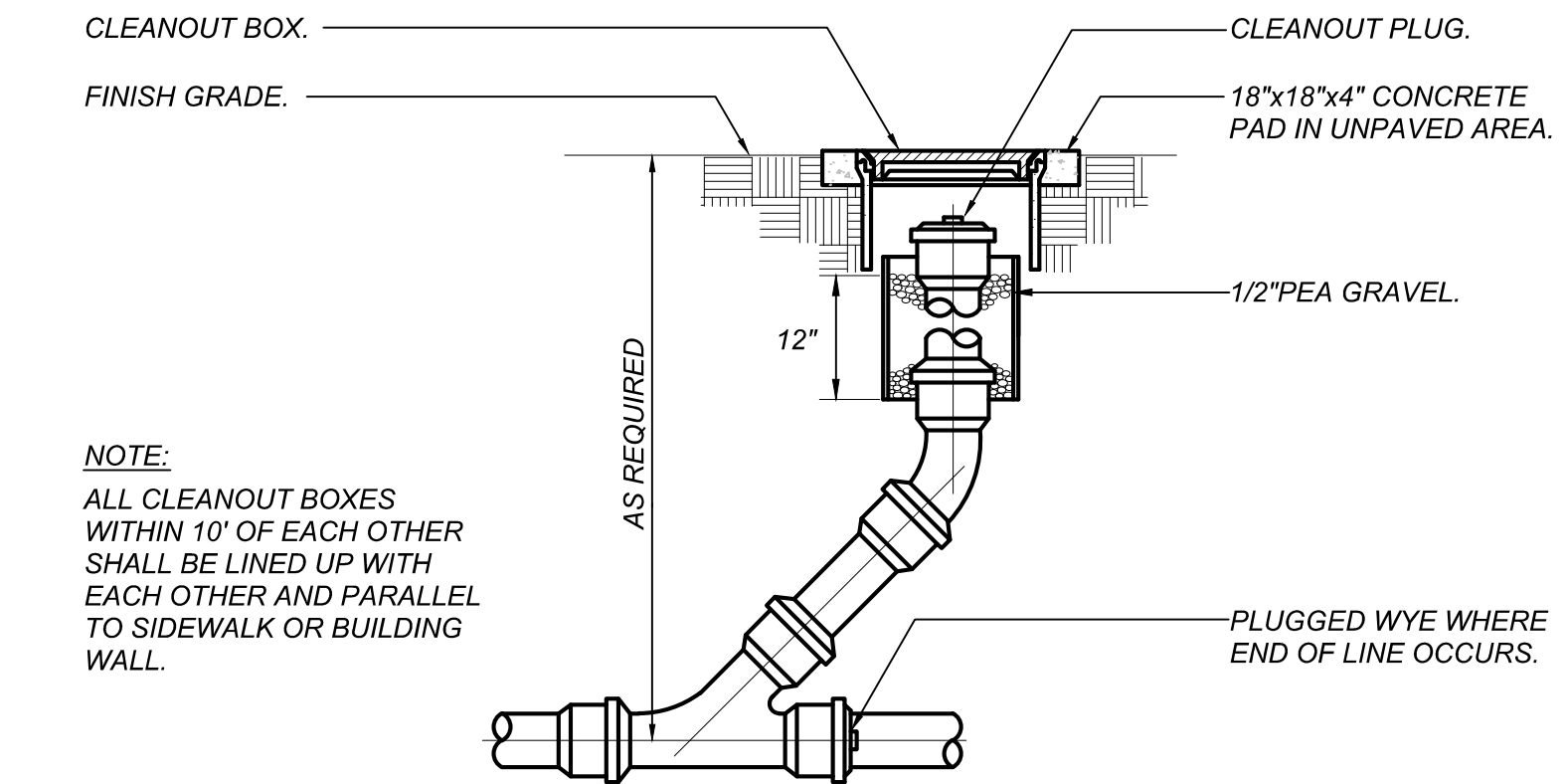
A
P-2.0



FLOOR CLEANOUT

SCALE: N.T.S.

E
P-2.0

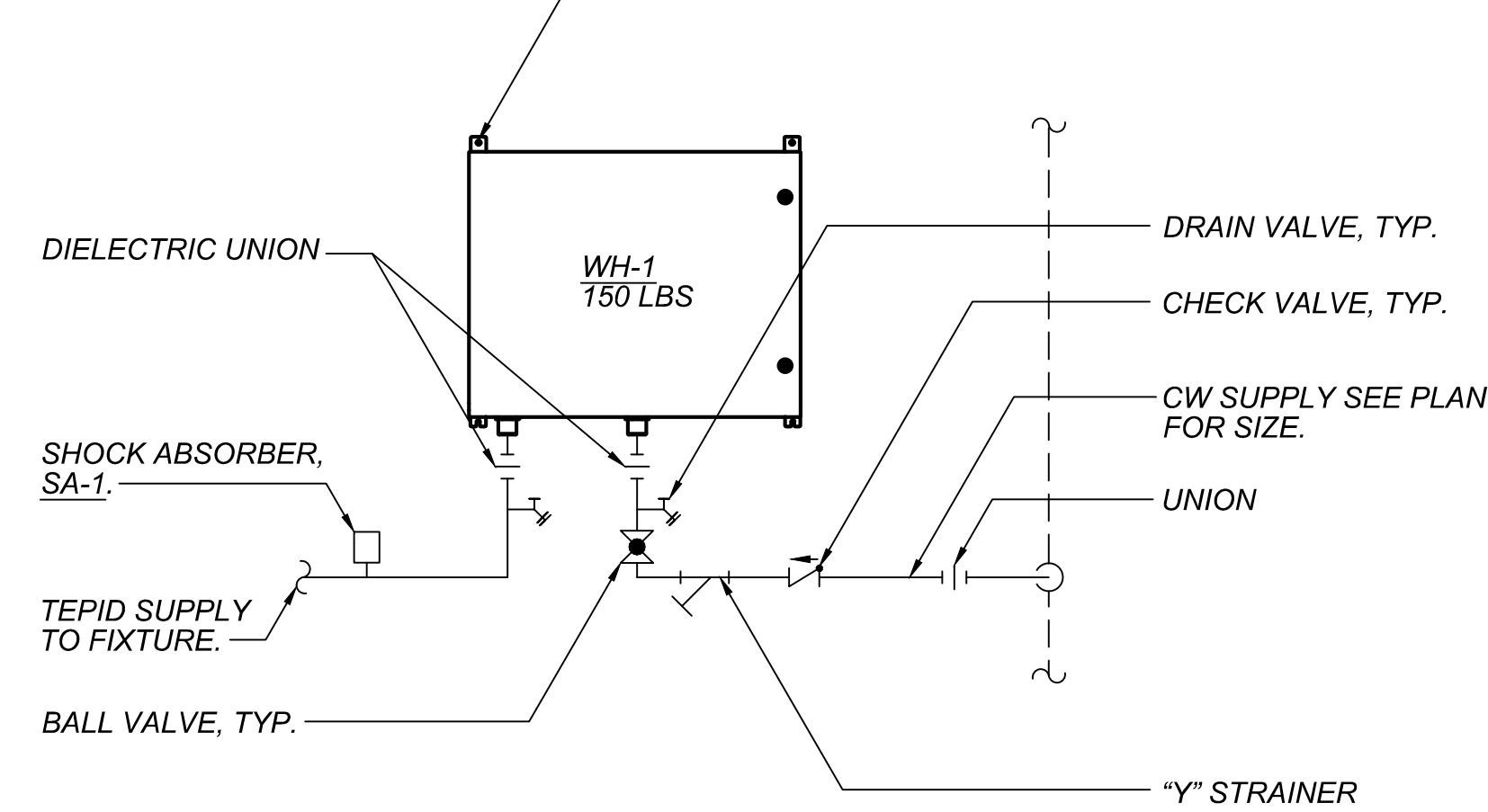


CLEANOUT TO GRADE DETAIL

SCALE: NONE

B
P-2.0

SECURE WATER HEATER WITH 3/8"Ø BOLT AND LOCK NUTS TO BACKING PLATE IN WALL (4 LOCATIONS). REFER TO DETAIL D/P2.0 FOR BACKING PLATE.



WATER HEATER DETAIL (WH-1)

SCALE: NONE

F
P-2.0

NOT USED

SCALE: NONE

C
P-2.0

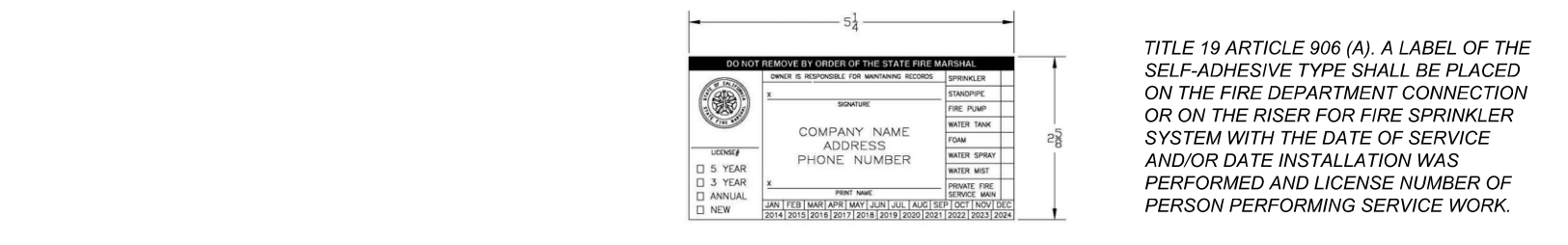
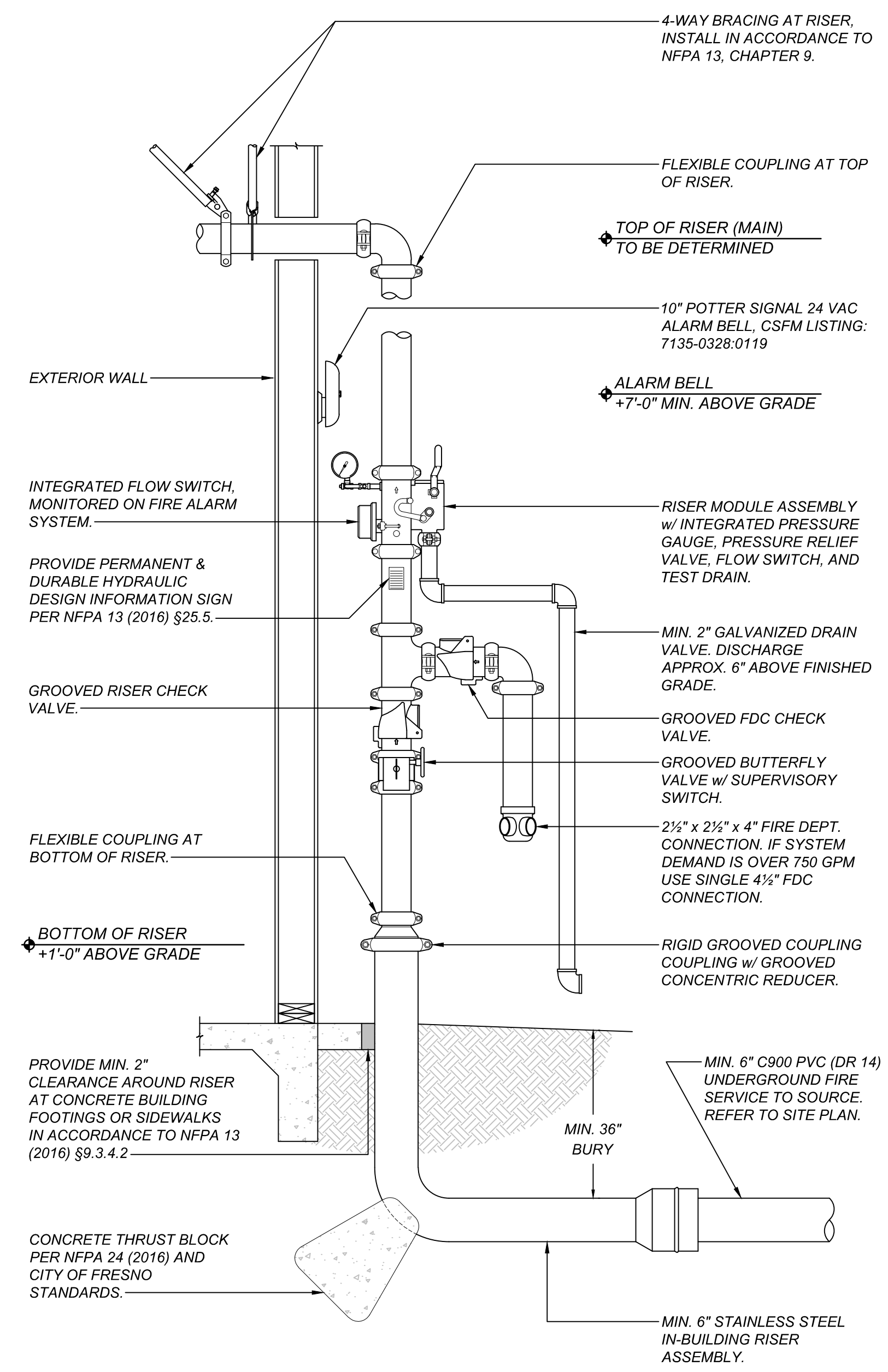


Project:
 Fresno County
 Environmental Compliance Center
 Phase 3 - Warehouse Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No. T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
 WAREHOUSE BUILDING
 SCHEDULES AND DETAILS



Sheet No.
P2.0



- RISER NOTES:**
- EACH RISER DETAIL IS A SCHEMATIC REPRESENTATION OF THE RISER(S). ORIENTATION OF FITTINGS, VALVES, GAUGES, AND OTHER DEVICES HAVE BEEN MODIFIED FOR ILLUSTRATION PURPOSES AND MAY VARY IN ACTUAL INSTALLATION.
 - PER NFPA 13 (2016) §9.3.2.3.1 - A FLEXIBLE COUPLING SHALL BE INSTALLED WITHIN 24" OF THE TOP AND BOTTOM OF ALL RISERS. RISERS LESS THAN 3 FT IN LENGTH MAY OMIT FLEX COUPLINGS. ONE FLEX COUPLING IS ADEQUATE FOR RISERS 3' TO 7' IN LENGTH.
 - PER NFPA 13 (2016) §9.3.5.8.3 - WHEN A FOUR-WAY BRACE AT THE TOP OF A RISER IS ATTACHED ON THE HORIZONTAL PIPING, IT SHALL BE WITHIN 24" OF THE CENTERLINE OF THE RISER AND THE LOADS FOR THAT BRACE SHALL INCLUDE BOTH THE VERTICAL AND HORIZONTAL PIPE.
 - PER NFPA 13 (2016) §25.5 - THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN SECURED WITH CORROSION RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.
 - PER NFPA 13 (2016) §25.6.1 - THE INSTALLING CONTRACTOR SHALL PROVIDE A GENERAL INFORMATION SIGN USED TO DETERMINE SYSTEM DESIGN BASIS AND INFORMATION RELEVANT TO THE INSPECTION, TESTING, AND MAINTENANCE REQUIREMENTS REQUIRED BY NFPA 25.
 - LOCATION OF 2" SYSTEM DRAIN TO BE COORDINATED WITH GENERAL CONTRACTOR. DRAIN PIPE AND FITTINGS SHALL BE GALV.
 - FIRE RISER ROOM SHALL COMPLY WITH CBC (2016) 901.3 PER CFC (2016) SECTION 509.1 FIRE EQUIPMENT ROOMS SHALL BE IDENTIFIED IN AN APPROVED MANNER. APPROVED SIGNS SHALL BE DURABLE, PERMANENT, AND VISIBLE.

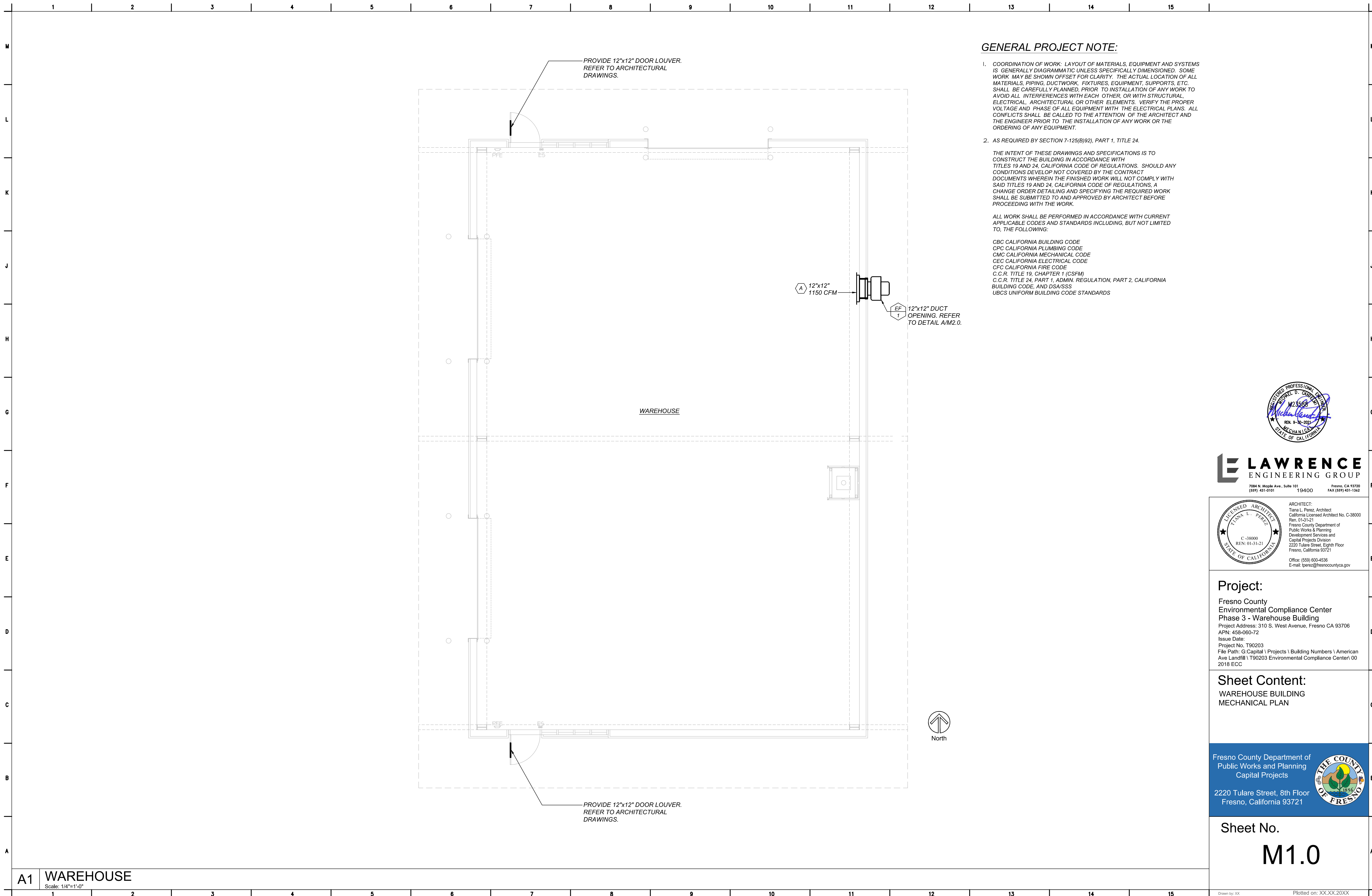


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 Ave Landfill \ T90203 Environmental Compliance Center\ 00
 2018 ECC

Sheet Content:
 WAREHOUSE BUILDING
 RISER DETAIL
 FOR REFERENCE ONLY



Sheet No.
P2.1



GENERAL PROJECT NOTE:

1. COORDINATION OF WORK, LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, 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, ARCHITECTURAL OR OTHER ELEMENTS. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. 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.

2. AS REQUIRED BY SECTION 7-125(B)(92), PART 1, TITLE 24.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY ARCHITECT BEFORE PROCEEDING WITH THE WORK.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- CBC CALIFORNIA BUILDING CODE
- CPC CALIFORNIA PLUMBING CODE
- CMC CALIFORNIA MECHANICAL CODE
- CEC CALIFORNIA ELECTRICAL CODE
- CFC CALIFORNIA FIRE CODE
- C.C.R. TITLE 19, CHAPTER 1 (CSFM)
- C.C.R. TITLE 24, PART 1, ADMIN. REGULATION, PART 2, CALIFORNIA BUILDING CODE, AND DSA/SSS
- UBCS UNIFORM BUILDING CODE STANDARDS



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ENGINEERING GROUP

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STATE OF CALIFORNIA
C-38000
REN: 01-31-21

ARCHITECT:
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Project:
Fresno County
Environmental Compliance Center
Phase 3 - Warehouse Building
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date:
Project No. T90203
File Path: G:\Capital \ Projects \ Building Numbers \ American
Ave Landfill \ T90203 Environmental Compliance Center\ 00
2018 ECC

Sheet Content:
WAREHOUSE BUILDING
MECHANICAL PLAN

Fresno County Department of
Public Works and Planning
Capital Projects

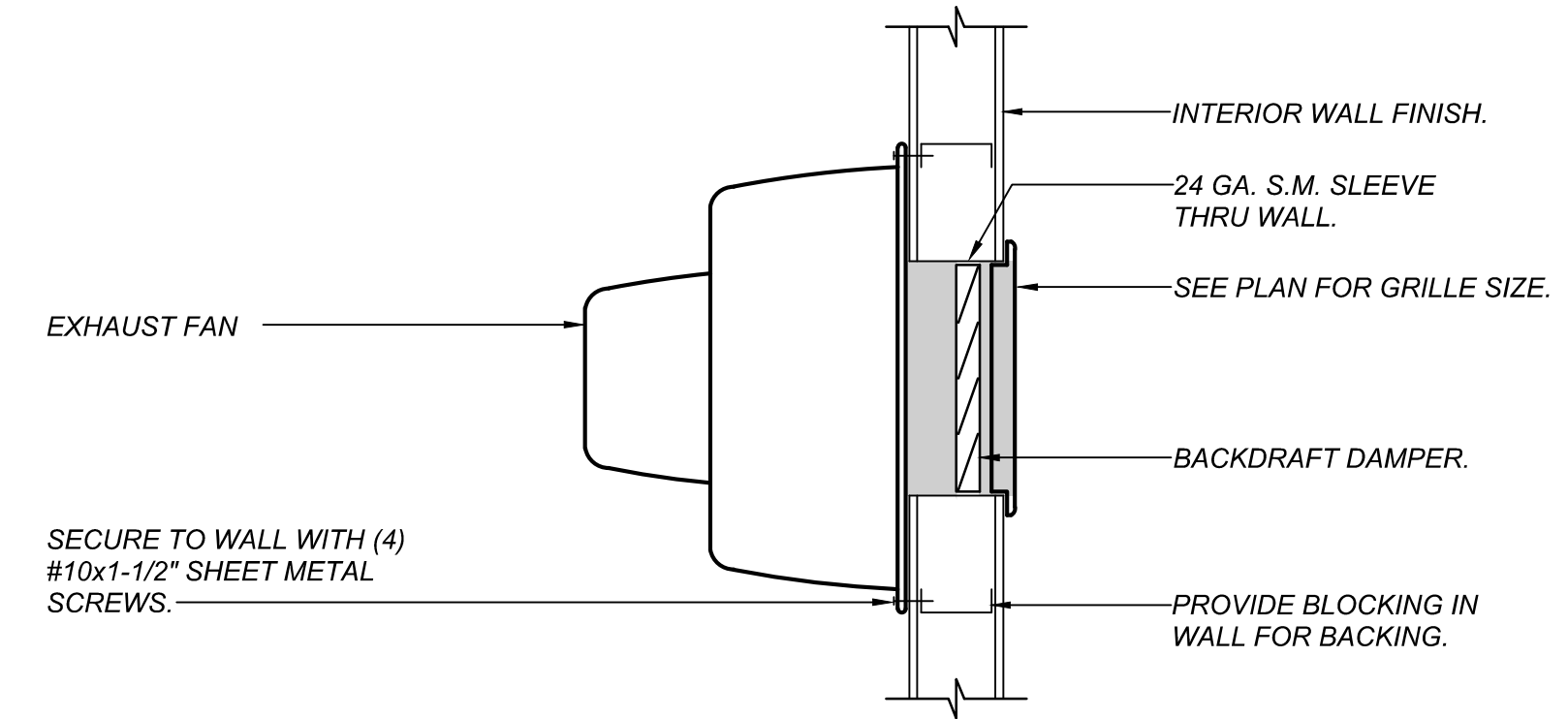
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
M1.0

AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
	ROUND DUCT	Ø
	FLAT OVAL DUCT	—
	SHEET METAL DUCT	—
	ACOUSTIC LINING FOR DUCT OR GRILLES	(L)
	DUCT WEXT INSULATION & GALV. SM SUNSHIELD	—
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER W/LOCKING QUADRANT	VCD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	VOLUME CONTROL DAMPER W/REMOTE REGULATOR	VCR
	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
	FIRE DAMPER WITH ACCESS PANEL	FD
	SMOKE DAMPER WITH ACCESS PANEL	SD
	CUBIC FEET OF AIR PER MINUTE	CFM
	EMS MOTORIZED DUCT DAMPER/PIPE VALVE ACTUATOR	—
	THERMOSTAT @ +4'-0" TOP OF BOX	T'STAT
	HUMIDISTAT @ +4'-0" TOP OF BOX	H'STAT
	CO2 SENSOR @ +4'-0" TOP OF BOX	CO2
	EMS TEMPERATURE SENSOR @ +4'-0" TOP OF BOX	—
	EMS HUMIDITY SENSOR @ +4'-0" TOP OF BOX	—
	EMS CO2 SENSOR @ +4'-0" TOP OF BOX	CO2
	EMS STATIC PRESSURE SENSOR	SP
	EMS DIFFERENTIAL PRESSURE SENSOR	DP
	EMS CURRENT SENSOR	CS
	DIRECTION OF FLOW	—
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	PIPE/DUCT TURN DOWN	—
	PIPE/DUCT TURN UP	—
	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)
	NEW (DESIGNATED)	(N)
	DUCT SMOKE DETECTOR	SD
	AUDIBLE/VISUAL ALARM	A/VA
	BYPASS TIMER	BPT

EXHAUST FAN SCHEDULE	
DESIGNATION	
CFM	1150
ESP (IN WC)	.8
HP/WATTS	1/2 / -
VOLTS/PHASE	115/1
RPM	1153
TIP SPEED/SONES	4,498/11.3
DRIVE	DIRECT
MOUNTING	WALL
MANUFACTURER	GREENHECK
TYPE	CENTRIFUGAL
MODEL NUMBER	CUE-171-VG
CONTROL	—
SERVICE	SEE PLANS
OPER. WT. (LBS)	100
ACCESSORIES	①

① WALL BRACKET, ELECTRICAL DISCONNECT, BACKDRAFT DAMPER, BIRD SCREEN.



WALL EXHAUST FAN MOUNTING DETAIL

SCALE: NONE

A
M2.0

GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
	WALL EXHAUST	TITUS MODEL 350RL STEEL RETURN GRILLE WITH 35° DEFLECTION BLADES AT 3/4" SPACING AND NO. 26 WHITE FINISH.



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Sheet Content:

WAREHOUSE
MECHANICAL
SCHEDULES
AND DETAILS

Fresno County Department of
Public Works and Planning
Capital Projects

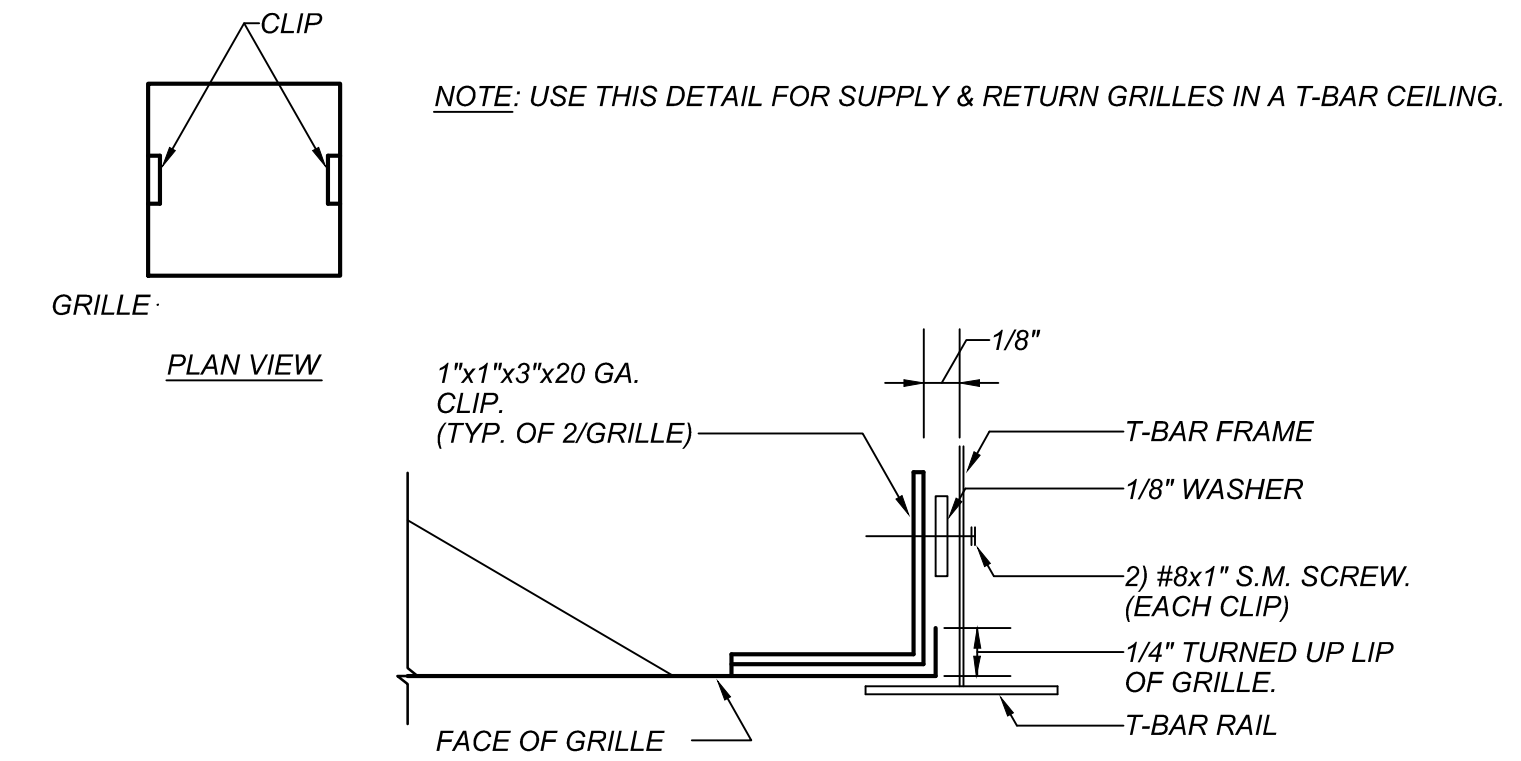


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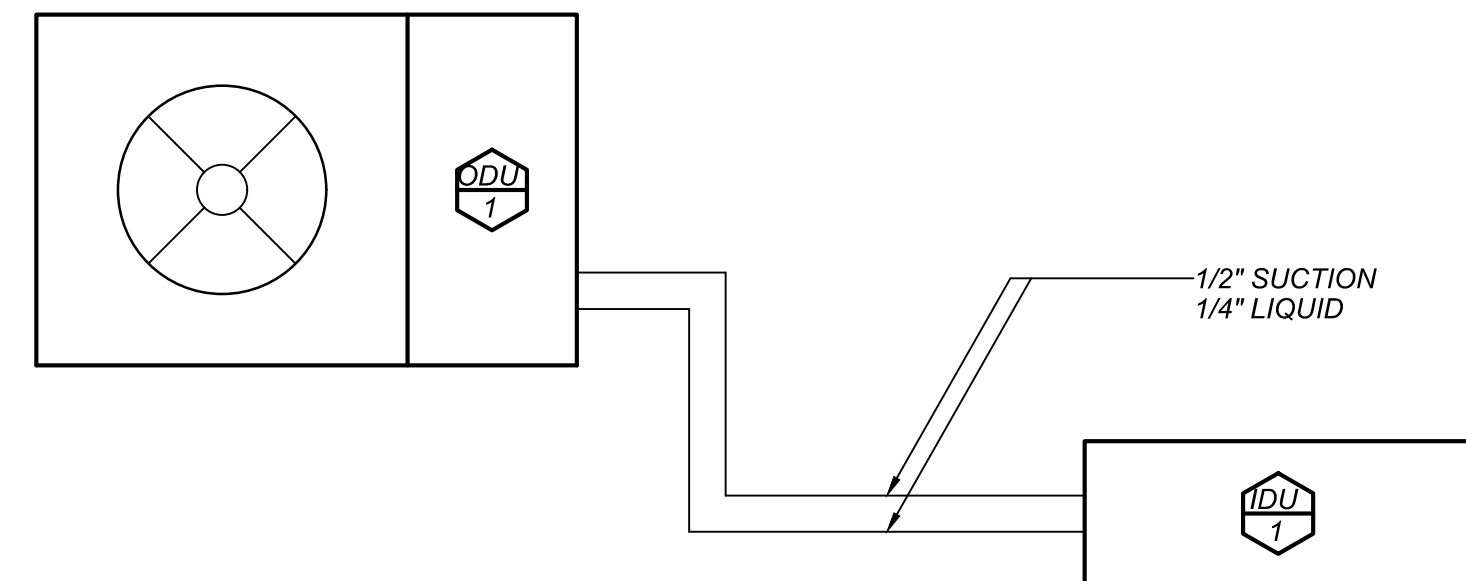
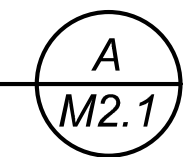
GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC (TYPE 3) FULL LOUVER FACE ROUND OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH. (18"x18" NECK, ADAPTER SIZE SHOWN)
B	CEILING RETURN	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH.
C	WALL EXHAUST	TITUS MODEL 350RL STEEL RETURN GRILLE WITH 35° DEFLECTION BLADES AT 3/4" SPACING AND NO. 26 WHITE FINISH.
D	LOUVER	RUSKIN L811 20 GAUGE GALVANIZED SHEET METAL LOUVER WITH 1/2" MESH SCREEN ON INSIDE FACE. PRIME FOR PAINT.
E	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING WITH NO. 26 WHITE FINISH.



GRILLE RESTRAINT DETAIL

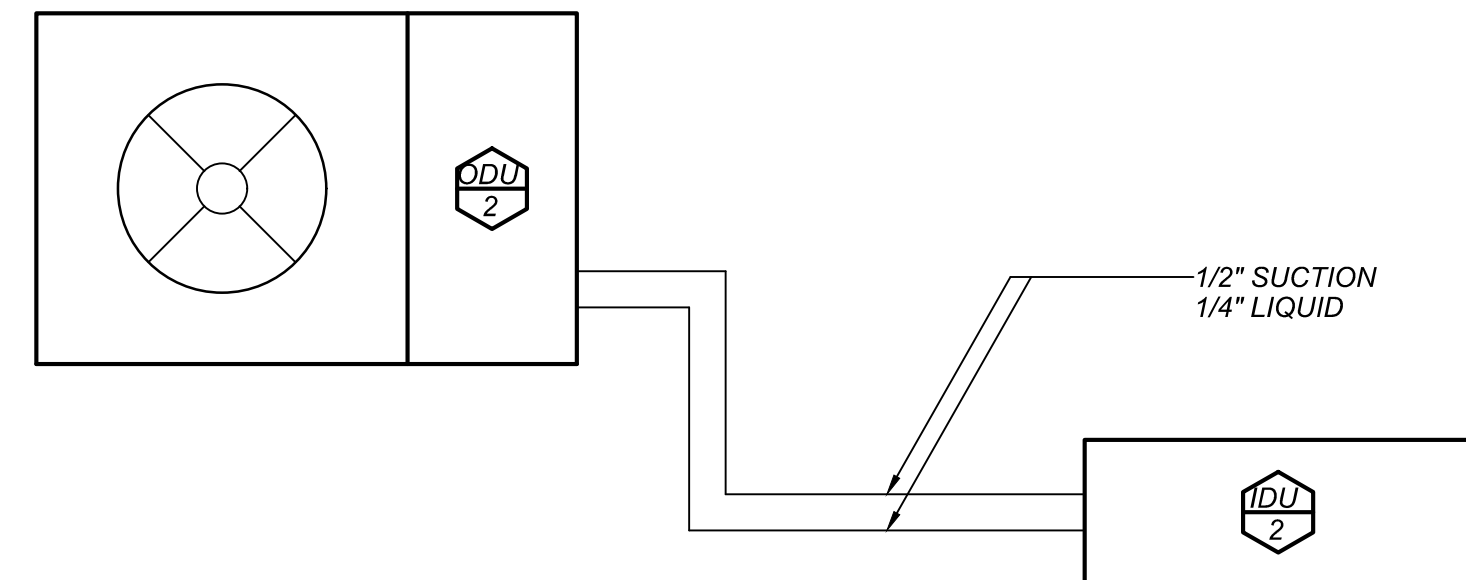
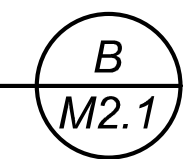
SCALE: NONE

MD090



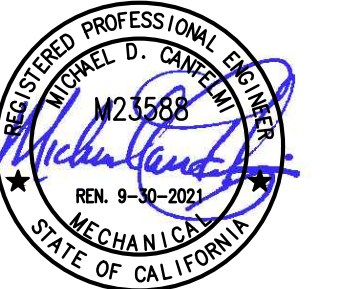
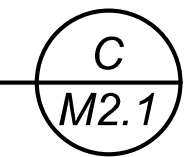
REFRIGERANT PIPING DETAIL FOR ODU-1

SCALE: NONE



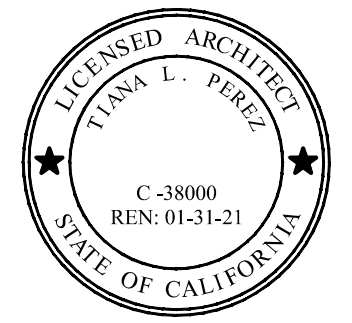
REFRIGERANT PIPING DETAIL FOR ODU-2

SCALE: NONE



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Electrical General Notes

- ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:
 - CALIFORNIA BUILDING CODE 2019
 - CALIFORNIA ELECTRICAL CODE 2019
 - NON RESIDENTIAL CEC ENERGY STANDARDS 2019
- NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
- ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
- ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
- ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.4. WHERE SERIES COMBINATION RATINGS ARE USED FOR NEW PANELS, PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING "CAUTION - SERIES RATED SYSTEM AMPACITY AVAILABLE" AND IDENTIFY THE COMPONENTS, PER CEC 110.3, 110.22(C), 240.86, AND THE UL RECOGNITION DIRECTORY.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W PER CEC 110.26.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 3Ø 4W PER CEC 110.26.
- PROVIDE A PLACARD ON EACH PANELBOARD INDICATING THE LOCATION AND IDENTIFICATION OF THE FEEDER SERVING THE PANEL PER CEC 408.4(B).
- PROVIDE ILLUMINATED EMERGENCY POWER PER 2016 CFC, SECTION 1006.3. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
- FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
- WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
- 120V AND 277V BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. SHARING NEUTRALS IS NOT ACCEPTABLE.
- FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- ALL UNDERGROUND CONDUITS SHALL HAVE MINIMUM 24" COVER. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE RISERS OCCUR. WRAP GRS BELOW GRADE OR PROVIDE PVC COATED GRS. EXPOSED CONDUIT SHALL BE GRS TO 8'-0", THEN ENT ABOVE AS APPROPRIATE. UNDER NO CIRCUMSTANCE SHALL PVC CONDUIT BE INSTALLED ABOVE GRADE.
- CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
- PROVIDE (4) 1" CONDUIT STUBS FROM EACH NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
- COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
- PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
- BEFORE AN OCCUPANCY PERMIT IS GRANTED FOR A NEWLY CONSTRUCTED BUILDING OR AREA, OR NEW LIGHTING SERVING A BUILDING, AREA OR SITE IS OPERATED FOR NORMAL USE, ALL INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING, AREA OR SITE SHALL BE CERTIFIED AS MEETING THE "ACCEPTANCE REQUIREMENTS" FOR CODE COMPLIANCE IN ACCORDANCE WITH SECTION 130.4. A "CERTIFICATE OF ACCEPTANCE" SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(a) OF PART 1 THRU 7(C).
- AT TIME OF "FINAL INSPECTION", ALL CODE REQUIRED SIGN CONTROLS WILL BE REQUIRED TO HAVE BEEN INSTALLED. REFERENCE SECTION 130.4 OF THE 2016 CALIFORNIA ENERGY CODE.
- THE CALIFORNIA STATE LICENSE BOARD (CSLB) "ZERO TOLERANCE POLICY" IN EFFECT FOR NON-COMPLIANT LABOR CODE SECTIONS 3049 AND 2049.2, SECTIONS 204.0 AND THE AB 931, AS OF JANUARY 2006, ENFORCEMENT OF LEGAL ACTION WILL BE ISSUED TO ANY C-10 CONTRACTOR WHO WILLFULLY EMPLOYS AN "UNCERTIFIED ELECTRICIAN" TO PERFORM ELECTRICAL WORK IN THE STATE OF CALIFORNIA.
- THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR, AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXHAUSTING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.).
- WHEN A FIRE ALARM SYSTEM IS PRESENT AND THE TOTAL COMBINED CFM FOR ALL HVAC UNITS IN A FIRE COMPARTMENT IS IN EXCESS OF 2000, DETECTION OF SMOKE IN ANY ONE OF THE DUCT DETECTORS SHALL SHUT OFF THE POWER SOURCES TO ALL THE UNITS PER FRESNO FIRE POLICY 401.4.
- PROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER C685C 5.410.4.
- ARC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.
- FAULT CURRENT SHALL BE CALCULATED AND POSTED PRIOR TO FINAL INSPECTION PER CEC 110.24.

Electrical Symbols

SYMBOL	DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES
	POLE WITH SINGLE AREA LUMINAIRE			SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	POLE WITH DOUBLE AREA LUMINAIRES			POWER PANEL	REFER TO PANEL SCHEDULE
	POLE WITH POST TOP AREA LUMINAIRE			JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE		DISCONNECT SWITCH, FUSIBLE	REFER TO MECH. PLANS & SPECS.
	SURFACE CEILING LIGHT			MOTOR CONTROLLER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
	RECESSED DOWN LIGHT			MOTOR	REFER TO MECH. PLANS & SPECS.
	WALL LIGHT			EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT TO BATT PACKS		SINGLE CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	EXIT SIGN, CEILING (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS		DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	EXIT SIGN, WALL (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS		QUADPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	DEDICATED EMERGENCY LIGHT	PROVIDE UNSWITCHED HOT TO BATT PACKS		DUPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT849-W
	INVERTER			QUADPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT849-W
	SWITCH AT +48" AFF TO TOP OF BOX	20A 2TTV QUIET TOGGLE		DUPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT849-W
	3-WAY SWITCH AT +48" AFF TO TOP OF BOX	20A 2TTV QUIET TOGGLE		WEATHERPROOF, GFI OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE TYPE COVER	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT849-W
	DIMMER SWITCH, TO BE COMPATIBLE WITH CONTROLLED FIXTURES, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1/2" BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE		DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TR20-SIM CODE COMPLIANT MARKING REQUIRED
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1/2" BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE		QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT +15" AFF TO BOTTOM OF BOX, U.O.N. ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TR20-W AND LEVITON #TR20-S2M CODE COMPLIANT MARKING REQUIRED
	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W SEPARATE EXHAUST FAN RELAY AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1/2" BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE		HEAVY DUTY POWER PEDESTAL	SEE DETAIL
	DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1/2" BOX & RING, 1" C. TO ACCESSIBLE ATTIC		SPECIAL EQUIPMENT OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQ'TS W/ EQUIPMENT VENDOR
	DIGITAL DIMMER SWITCH, WIRELESS, LINE VOLTAGE AT +48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, ROUGH IN WITH 1/2" BOX & RING, 1/2"-2TTV POWERED		26 FLOOR BOX WITH POWER FEED COVER	MAKE CONNECTION TO MODULAR FURNITURE SYSTEM WITH #6 GREEN GROUND WIRE TO G.E.C.
	DIGITAL DIMMER SWITCH W INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1/2" BOX & RING, 1" C. TO ACCESSIBLE ATTIC		12" CU GROUND BUS BAR	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.
	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING, CONTROLLER AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1/2" BOX & RING, 1" C. TO ACCESSIBLE ATTIC		FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.
	DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT	nLIGHT SYSTEM #4CM PDT 10		PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	nLIGHT SYSTEM, ROUGH IN WITH 1/2" BOX & RING, 1" C. TO ACCESSIBLE ATTIC		PUBLIC ADDRESS SPEAKER WALL MOUNTED, +120" U.O.N.	RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	WIRELESS DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR, DUAL-TECHNOLOGY CEILING MOUNT	PROVIDE XPOINT SBOR SENSOR INTERFACE		W/ OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, +120" U.O.N.	RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	DIGITAL GATEWAY	nLIGHT SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.		SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED. VERIFY HEIGHTS AT EACH LOCATION. C-CEILING MOUNTED.	INTERIOR: 1/2" J-BOX, 1/2" RING, MODULAR PLATE, 3/4" C. TO ACCESSIBLE ATTIC SPACE. EXTERIOR: 1/2" FLUSH BELL BOX, MODULAR PLATE, 3/4" C. TO ACCESSIBLE ATTIC SPACE. PROVIDE (1) CAT6 CABLE AND DATA JACK TO EACH CAMERA PROVISION. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
	DIGITAL XPOINT WIRELESS BRIDGE	INTERFACE WITH nLIGHT SYSTEM GATEWAY		RECESSED TV BOX WITH POWER OUTLET, (2) DATA JACKS, HDMI AND CATV JACKS. VERIFY HEIGHT/LOCATION PRIOR TO ROUGH-IN.	MAKE POWER CONNECTION AND PROVIDE 1 1/2" C. STUB TO EXPOSED CABLE SPACE NEAR ROOF. VERIFY HEIGHTS W/ ARCH.
	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		A/V INPUT HDMI/6A/3.5MM AUDIO/USB JACK WALL PLATE AT +18" AFF	26 BOX, 1/2" RING, (2) 1 1/4" C. TO ATTIC SPACE. INSTALL CABLES FROM STATION TO TV.
	DIMMING POWER PACK W EMERGENCY CONTROL RELAY VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		DMX CONTROLLER PACK	DEVICES TO BE REMOVED
	DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		EXISTING CONDUIT/WIRING TO BE DEMOLISHED	
	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.		EXISTING DEVICES	
	TERMINAL CABINET			EXISTING CONDUIT/WIRING	
	DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +18" AFF, U.O.N.	4-11/16 SQ. BOX, 1/2" RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.		WIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN.
	(2) WAP DATA JACKS (RJ-45 CAT6) MOUNTED IN ATTIC SPACE	4-11/16 SQ. BOX, 1/2" RING, MODULAR PLATE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END.		WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.
	(2) WAP DATA JACKS (RJ-45 CAT6) AT +108" AFF, U.O.N.	4-11/16 SQ. BOX, 1/2" RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.		LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
	WALL MOUNT VOIP OUTLET (RJ-45 CAT6) AT +45" AFF, U.O.N.	4-11/16 SQ. BOX, 1/2" RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.		CONDUIT RISER	3/4" CONDUIT MIN.
	WALL MOUNT DATA/COMM OUTLET AT +45" AFF, U.O.N.	4-11/16 SQ. BOX, 1/2" RING, MODULAR PLATE, & 1 1/2" C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.		FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	"MAIN DISTRIBUTION FRAME"			CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	"INTERMEDIATE DISTRIBUTION FRAME"			CROSS HATCHES INDICATE NUMBER OF #14 AWG CONDUCTORS IN CONDUIT, WHEN MORE THAN 100. WIRE SIZE INDICATED ON PLANS WHEN OTHER #14 AWG, PROVIDE GROUND PER CEC 250. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.	3/4" CONDUIT MIN.
				CURVED CROSS HATCHES INDICATE #14 AWG PURPLE & GRAY CONDUCTORS FOR DIMMING CONTROL.	3/4" CONDUIT MIN.
				HOME RUN (TO PANEL "A", CIRCUIT "15") "EXISTING"	3/4" CONDUIT MIN.
				"UNLESS OTHERWISE NOTED"	
				"WEATHERPROOF" / NEMA 3R	
				"GROUND FAULT INTERRUPTER"	

REGISTERED PROFESSIONAL ENGINEER
 C. SCOTT DAVIDSON
 E17850
 ELECTRICAL
 STATE OF CALIFORNIA

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 559.323.4995
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LICENSED ARCHITECT
 TIANA L. PEREZ
 C-38000
 REN: 01-31-21
 STATE OF CALIFORNIA

ARCHITECT:
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 Capital Projects Division
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 E-mail: tperez@fresnocountyca.gov

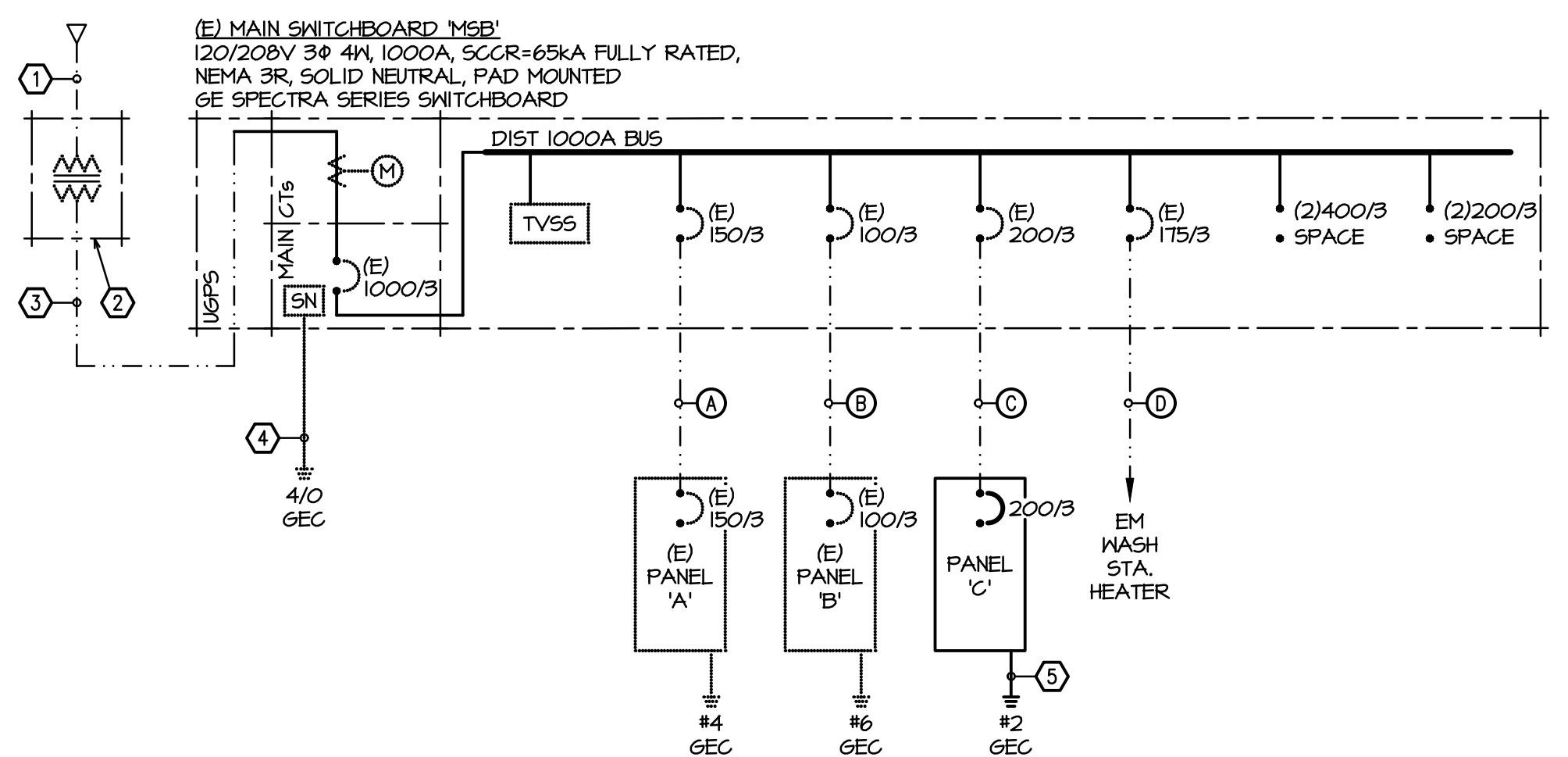
Project:
 Fresno County
 Environmental Compliance Center
 Warehouse Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No: T90203
 File Path: G:\Capital\Projects\Building Numbers\1 American
 Ave Landfill\T90203 Environmental Compliance Center\00
 2018 ECC

Sheet Content:
 Electrical Notes and Symbols

Fresno County Department of
 Public Works and Planning
 Capital Projects

2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E1.1



LINE DIAGRAM KEY NOTES

- (E) 4" UTILITY PRIMARY PER RULE 16 DOCS.
- (E) UTILITY TRANSFORMER & CONCRETE PAD PER RULE 16 DOCS.
- (B) 5" UTILITY SECONDARY PER P&E PER RULE 16 DOCS.
- (E) SERVICE GROUNDING ELECTRODE CONDUCTOR.
- GROUNDING ELECTRODE CONDUCTOR TO UFER, STRUCTURAL STEEL, METAL WATER PIPE, AND FIRE SPRINKLER RISER.

FEEDERS

- 2'-1/2" C. 4#1/0, 1#6G.
- 2" C. 4#1, 1#6G.
- 3" C. 4#4/0, 1#4G.
- 2" C. 3#2/0, 1#6G.

J1 Power Single Line Diagram

Scale: None

No.	Feeder Origin	Feeder Destination	Potential at Origin (P _i) (Volts)	System	Design Current (Amps)	Raceway Type	Sets of Cond.	Conductor Trade Size	Conductor Cross-Sectional Area (CM)	Conductor Material	DC Conductor Material Constant (K)	Q	Distance (ft)	Voltage Drop (VD) (Volts)	Potential at Load (P _L) (Volts)	Percent Voltage Drop (%VD)
1	MSB	Panel 'A'	208	AC 3-Phase	150	PVC	1	1/0	105600	CU	12.9	0.9836	35	1.09	206.91	0.53
2	MSB	Panel 'B'	208	AC 3-Phase	100	PVC	1	1	83690	CU	12.9	0.9740	125	3.25	204.75	1.56
3	MSB	Panel 'C'	208	AC 3-Phase	200	PVC	1	4/0	211600	CU	12.9	1.0197	135	2.91	205.09	1.40
4	Panel 'A'	Farthest #12 outlet	120	AC 1-Phase	16	Steel	1	12	6530	CU	12.9	1.0101	75	4.79	115.21	3.99
5	Panel 'A'	Farthest #10 outlet	120	AC 1-Phase	16	Steel	1	10	10380	CU	12.9	0.9677	125	4.81	115.19	4.01
6	Panel 'B'	Farthest A/C Unit	208	AC 3-Phase	30	Steel	1	6	26240	CU	12.9	0.9980	45	1.15	206.85	0.55

Definitions
 VD = Voltage Drop (Volts)
 K = DC Conductor Material Constant (12.9 for Copper, 21.2 for Aluminum)
 Q = AC Adjustment Factor for conductors sized #2/0 AWG and larger (R_{ac} / R_{dc})
 I = Current (Amps)
 D = Distance to Load (ft)
 CM = Conductor Cross-Sectional Area (Circular Mils)
 P = Potential (Volts)

Formulae
 VD (single phase or DC) = 2 x K x Q x I x D / CM
 VD (three phase) = √3 x K x Q x I x D / CM
 %VD = VD / P_i x 100

E1 Voltage Drop Calculations

Scale: None

TYPE	MANUFACTURER	CATALOG NO.	LAMPING	WATTS	VOLTS	MOUNTING	REMARK
F	LITHONIA	IBG 2400LM HEF PFL GND MVOLT GZ10 40K 80CRI NLTAIR2 RMS0D45 DNA	LED	132.0	120	CHAIN	MOUNT BOTTOM AT +15'-0" AFF
P	LUMINAIRE	SWP1212 MIN10 25W 40K MVOLT OP GRY	LED	25.0	120	WALL	

A1 Light Fixture Schedule

Scale: None

PANEL "A" SCHEDULE

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	LIGHTING CONTROL PANEL	15	1	150	A	1000	20	1	OUTLETS - BACKBOARD	2
3	LIGHTS - INTERIOR	15	1	319	B	1000	20	1	OUTLETS - BACKBOARD	4
5	LIGHTS - EXTERIOR	15	2	125	C	1000	20	1	* FIRE SPRINKLER SYSTEM	6
7	LIGHTS - SITE POLES (208V)	15	2	229	A	1000	20	1	OUTLETS - BACKBOARD	8
9	-----	--	--	229	B	540	20	1	OUTLETS - OFFICE	10
11	SPARE	15	1		C	720	20	1	OUTLETS - OFFICE	12
13	SPARE	20	1		A	540	20	1	OUTLETS - OFFICE	14
15	SPARE	20	1		B	720	20	1	OUTLETS - STORAGE	16
17	SPARE	20	1		C	540	20	1	OUTLETS - EXTERIOR, NE RESTROOM	18
19	AIR CONDITIONER ODU-1 / IDU-1	50	2	3120	A	360	20	1	OUTLETS - EXTERIOR, NW RESTROOM	20
21	-----	--	--	3120	B	2000	20	1	HAND DRYER - NE RESTROOM	22
23	AIR CONDITIONER ODU-2 / IDU-2	15	2	936	C	3000	30	1	** WATER HEATER - NE RESTROOM	24
25	-----	--	--	936	A	2000	20	1	HAND DRYER - NW RESTROOM	26
27	EXHAUST FAN EF-2	15	1	696	B	3000	30	1	** WATER HEATER - NW RESTROOM	28
29	SPACE ONLY				C	360	20	1	OUTLETS - HAZMAT CONTAINER	30
31	SPACE ONLY				A		20	1	SPARE	32
33	SPACE ONLY				B		20	1	SPARE	34
35	SPACE ONLY				C		20	1	SPARE	36
37	SPACE ONLY				A		20	1	SPARE	38
39	SPACE ONLY				B		20	1	SPARE	40
41	SPACE ONLY				C		20	1	SPARE	42

LOAD SUMMARY: Φ A 9335 VA, Φ B 11624 VA, Φ C 6681 VA, 27.6 kVA
 MAX CURRENT: 97 A

BUSING: 200A MAIN: 150A
 NOTES: * PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS. ** PROVIDE LOCK-OUT DEVICE FOR SERVICE

PANEL "A" SCHEDULE FOR REFERENCE ONLY. NOT INCLUDED IN BID.

PANEL "B" SCHEDULE

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	CANOPY LIGHTS	15	1	736	A	1176	20	1	LIQUID RECOVERY TANK	2
3	SPARE	15	1		B	500	20	1	NORTH SEA TRAIN	4
5	SPARE	20	1		C	500	20	1	SOUTH SEA TRAIN	6
7	OUTLETS - CANOPY	20	1	360	A	500	15	1	N. LIFT GATE	8
9	OUTLETS - CANOPY	20	1	360	B	500	15	1	S. LIFT GATE	10
11	OUTLETS - CANOPY	20	1	360	C		20	1	SPARE	12
13	OUTLETS - TERMINAL CABINET	15	1	360	A		20	1	SPARE	14
15	SPARE	20	1		B		20	1	SPARE	16
17	SPARE	20	1		C		20	1	SPARE	18
19	SPACE ONLY				A				SPACE ONLY	20
21	SPACE ONLY				B				SPACE ONLY	22
23	SPACE ONLY				C				SPACE ONLY	24
25	SPACE ONLY				A				SPACE ONLY	26
27	SPACE ONLY				B				SPACE ONLY	28
29	SPACE ONLY				C				SPACE ONLY	30

LOAD SUMMARY: Φ A 3132 VA, Φ B 1360 VA, Φ C 860 VA, 5.4 kVA
 MAX CURRENT: 26 A

BUSING: 100A MAIN: 100A

PANEL "B" SCHEDULE FOR REFERENCE ONLY. NOT INCLUDED IN BID.

PANEL "C" SCHEDULE

CKT. NO.	DESCRIPTION	BREAKER		VA	Φ	VA	BREAKER		DESCRIPTION	CKT. NO.
		AMPS	POLE(S)				AMPS	POLE(S)		
1	LIGHTING CONTROL PANEL	15	1	150	A	500	20	1	OUTLETS - BACKBOARD	2
3	LIGHTS - INTERIOR	20	1		B	500	20	1	OUTLETS - BACKBOARD	4
5	LIGHTS - EXTERIOR	15	1		C	1000	20	1	OUTLETS - BACKBOARD	6
7	MARQUEE SIGN	15	1		A	360	20	1	OUTLETS - INTERIOR	8
9	SPACE ONLY				B	360	20	1	OUTLETS - INTERIOR	10
11	SPACE ONLY				C	360	20	1	OUTLETS - INTERIOR	12
13	ROLL-UP DOOR MOTOR	15	3	444	A	360	20	1	OUTLETS - INTERIOR	14
15	-----	--	--	444	B	500	20	1	* FIRE SPRINKLER SYSTEM	16
17	-----	--	--	444	C		20	1	SPARE	18
19	ROLL-UP DOOR MOTOR	15	3	444	A		20	1	SPARE	20
21	-----	--	--	444	B		20	1	SPARE	22
23	-----	--	--	444	C		20	1	SPARE	24
25	ROLL-UP DOOR MOTOR	15	3	444	A	4800	50	3	OUTLET - FORKLIFT CHARGER	26
27	-----	--	--	444	B	4800	--	--	-----	28
29	-----	--	--	444	C	4800	--	--	-----	30
31	EXHAUST FAN EF-1	20	1	1176	A				SPACE ONLY	32
33	SPACE ONLY				B				SPACE ONLY	34
35	SPACE ONLY				C				SPACE ONLY	36
37	SPACE ONLY				A				SPACE ONLY	38
39	SPACE ONLY				B				SPACE ONLY	40
41	SPACE ONLY				C				SPACE ONLY	42

LOAD SUMMARY: Φ A 8678 VA, Φ B 7492 VA, Φ C 7492 VA, 23.7 kVA
 MAX CURRENT: 72 A

BUSING: 200A MAIN: 200A
 NOTES: * PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS.



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Project:
 Fresno County Environmental Compliance Center Warehouse Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No: T90203
 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
 Power Details and Schedules



Fresno County Department of Public Works and Planning
 Capital Projects
 2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E1.2

A10 Panel Schedules

Scale: None

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution NRC-C-E-E CALIFORNIA ENERGY COMMISSION NRC-ELC-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

A. GENERAL INFORMATION

01 Project Location (City)	Fresno	02 Occupancy Types Within Project	Warehouse	03 Support Areas	
04 Office		05 Retail		06 Hotel/Motel	
07 Parking Garage		08 High-Rise Residential		09 Healthcare Facilities	
10 Other (write in)		11 See Table I			

B. PROJECT SCOPE

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 117 (Exception to §130.5(a)) ³
Panel A	New electrical service equipment and meter	72		
06 Demand Response Controls	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 §130.2, §130.1 and §130.3, and compliance documents NRC-MCH, NRC-L1 and NRC-L15 will indicate when demand response controls are required.			

C. COMPLIANCE RESULTS

01	02	03	04	05
Service Electrical Metering (§130.5(a)) (See Table F)	Separation for Monitoring (§130.5(b)) (See Table G)	Voltage Drop (§130.5(c)) (See Table H)	Controlled Receptacles (§130.5(d)) (See Table I)	COMPLIES
Yes	AND	AND	AND	Yes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution NRC-C-E-E CALIFORNIA ENERGY COMMISSION NRC-ELC-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

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 section does not apply to this project.

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entries new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05
Load Type per Table 130.5.8 ¹	Minimum Required Separation of Load per Table 130.5.8	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector Pass/Fail
Panel A	All lighting in aggregate	Method 1	E1.3	
Plug Loads and appliances less than 25kVA	All plug loads in aggregate	Method 1	E1.3	
HVAC systems and components	All HVAC in aggregate	Method 1	E1.3	

H. LIGHTING FIXTURE SCHEDULE

01	02	03	04	05	06
Lighting including exit, egress and exterior	All plug loads in aggregate	Method 1	E1.3		
Plug Loads and appliances less than 25kVA	Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sq ft	Method 1	E1.3		
HVAC systems and components	All HVAC in aggregate	Method 1	E1.3		

I. 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 may with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATCP). For more information visit: <http://www.energy.ca.gov/title24/retsp/providers.html>

Yes	No	Form/Title	Field Inspector Pass/Fail
		NR-C-ELC-01-E - Must be submitted for all buildings	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution NRC-C-E-E CALIFORNIA ENERGY COMMISSION NRC-ELC-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

H. VOLTAGE DROP

This table includes entries 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). For alterations, only the altered circuits must demonstrate compliance per §130.5(c)(2).

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
Panel A	Voltage drop less than 5% Permitted by CA Elec Code (Exception to 130.5(c)) ²	Attached	E1.3	

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entries new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(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.

01	02	03	04	05	06
Room name or Description	Location/Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector Pass/Fail
Panel A	NA: No applicable space types on this service	Occupancy Sensor			

J. 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 may with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATCP). For more information visit: <http://www.energy.ca.gov/title24/retsp/providers.html>

Yes	No	Form/Title	Field Inspector Pass/Fail
		NR-C-ELC-01-E - Must be submitted for all buildings	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution NRC-C-E-E CALIFORNIA ENERGY COMMISSION NRC-ELC-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Electrical Power Distribution Electrical Power Distribution NRC-C-E-E CALIFORNIA ENERGY COMMISSION NRC-ELC-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Signature: C. Scott Davidson
Signature Date: 2020-07-20
Company: Hardin-Davidson Engineering
Address: 356 Pollasky Ave., Suite 200
City/State/Zip: Clovis, CA 93612
Phone: (559) 323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- 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 1.4 of the California Code of Regulations.
- 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.
- 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: C. Scott Davidson
Signature Date: 2020-07-20
Company: Hardin-Davidson Engineering
Address: 356 Pollasky Ave., Suite 200
City/State/Zip: Clovis, CA 93612
Phone: (559) 323-4995

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
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STATE OF CALIFORNIA Indoor Lighting Indoor Lighting NRC-C-L-E CALIFORNIA ENERGY COMMISSION NRC-IL-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

A. GENERAL INFORMATION

01 Project Location (City)	Fresno	04 Total Conditioned Floor Area (ft ²)	2,367
02 Climate Zone	13	05 Total Unconditioned Floor Area (ft ²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (habitable above grade)	1
04 Office		07 Retail	
08 Parking Garage		09 High-Rise Residential	
10 Healthcare		11 Other (Write in)	

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 or §141.0(b)(2) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces		
01 My Project Consists of (check all that apply):	02 Calculation Method	03 Area (ft ²)	04 Calculation Method	05 Area (ft ²)
06 New Lighting System	Area Category Method	2367	Area Category Method	0
07 New Lighting System - Parking Garage				
Total Area of Work (ft²)		2367		0

C. COMPLIANCE RESULTS

01	02	03	04	05	06	07	08	09
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(a)(2)	Complete Building	Area Category	Additional (ft ²)	Total Allowed (ft ²)	Total Allowed (Watts)	Total Designated (Watts)	PAF Lighting Control Credits	Total Adjusted (Watts)
Unconditioned	1,065.15	0	0	1,065.15	2	1,056	0	1056
Control Compliance (See Table B for Details)								
COMPLIES								
Rated Power Reduction Compliance (See Table B 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. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per Luminaire	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector Pass/Fail
F	132.0w LED Low Bay	No	No	132	CEC Default	8	No	1,056	
Total Designated Watts: CONDITIONED SPACES = 1,056									

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting NRC-C-L-E CALIFORNIA ENERGY COMMISSION NRC-IL-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

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. When a control having a "1" is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level	01	02	03
Mandatory Demand Response (§110.12(c))		Shut-off controls (§130.1(c))	Field Inspector Pass/Fail
Not Required <= 10,000 SF		Whole Building Other	L1 L2

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls	Multi-Level Controls	Shut-Off Controls	Primary/Daylighting	Secondary Daylighting	Interlocked Systems	Field Inspector Pass/Fail
Warehouse	Warehouse	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	N/A	

NOTES: Controls with a "*" require a note in the space below explaining how compliance is achieved. EX: Exception 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 2 to §140.1(a)(2)

Plan Sheet Showing Daylight Zones: E1.4

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting NRC-C-L-E CALIFORNIA ENERGY COMMISSION NRC-IL-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(a) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(d) are being used.

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category / PAF
Warehouse	Commercial Industrial Storage Area	0.45	2,367	1,065.15	No
TOTALS:	2,367	1,065.15			See Tables 1, 1.1 or for Fall

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 ORNAMENTAL/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.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting NRC-C-L-E CALIFORNIA ENERGY COMMISSION NRC-IL-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. 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 may with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATCP). For more information visit: <http://www.energy.ca.gov/title24/retsp/providers.html>

Yes	No	Form/Title	Field Inspector Pass/Fail
		NR-C-LI-01-E - Must be submitted for all buildings	
		NR-C-LI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	
		NR-C-LI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	
		NR-C-LI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	
		NR-C-LI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
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STATE OF CALIFORNIA Indoor Lighting Indoor Lighting NRC-C-L-E CALIFORNIA ENERGY COMMISSION NRC-IL-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

U. 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 may with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATCP). For more information visit: <http://www.energy.ca.gov/title24/retsp/providers.html>

Yes	No	Form/Title	Field Inspector Pass/Fail
		NR-C-LI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	
		NR-C-LI-03-A - Must be submitted for automatic daylight controls.	
		NR-C-LI-04-A - Must be submitted for demand responsive lighting controls.	
		NR-C-LI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA Indoor Lighting Indoor Lighting NRC-C-L-E CALIFORNIA ENERGY COMMISSION NRC-IL-E CERTIFICATE OF COMPLIANCE Environmental Compliance Center Warehouse Building Report Page: 310 S. West Ave. Date Prepared: 7/20/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Signature: C. Scott Davidson
Signature Date: 2020-07-20
Company: Hardin-Davidson Engineering
Address: 356 Pollasky Ave., Suite 200
City/State/Zip: Clovis, CA 93612
Phone: (559) 323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- 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 1.4 of the California Code of Regulations.
- 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.
- 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: C. Scott Davidson
Signature Date: 2020-07-20
Company: Hardin-Davidson Engineering
Address: 356 Pollasky Ave., Suite 200
City/State/Zip: Clovis, CA 93612
Phone: (559) 323-4995

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2020-07-20 12:09:16



Project: Fresno County Environmental Compliance Center Warehouse Building
Project Address: 310 S. West Avenue, Fresno CA 93706
Issue Date: Project No. T90203
File Path: G:\Capital \Projects \Building Numbers \American Ave Landfill \T90203 Environmental Compliance Center 00 2018 ECC

Sheet Content: Title 24 Compliance Documents



Sheet No. E1.3

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 1 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

A. GENERAL INFORMATION

01 Project Location (City) Fresno 04 Total Illuminated Hardcape Area (ft²) 2386
 02 Climate Zone 13
 03 Outdoor Lighting Zone per Title 24 Part 1 §10.116 or as designated by Authority Having Jurisdiction (AHJ):
 L2-0: Very Low - Undeveloped Farmland L2-2: Moderate - Rural Areas L2-4: High - Must be reviewed by CA Energy Commission for Approval
 L2-1: Low - Developed Farmland L2-3: Moderately High - Urban Areas

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 §160.7 or §164.0002, for alterations.

My Project Consists of:
 01 New Lighting System Must Comply with Allowances from §160.7
 02 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
 03 % of Existing Luminaires Being Altered? 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.
 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.

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 2 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

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 "COMPLIES with Exceptional Conditions" refer to Table D, Exceptional Conditions for guidance or see applicable Table reference below.

Calculations of Total Allowed Lighting Power (Watts) §160.7 or §164.0002						Compliance Results		
01	02	03	04	05	06	07	08	09
General Hardcape Allowance §160.7(a)(1) (See Table I)	Per Application §160.7(a)(2) (See Table J)	Frontage Allowance §160.7(a)(3) (See Table K)	Ornamental Allowance §160.7(a)(4) (See Table L)	Per Specific Area Allowance §160.7(a)(5) (See Table M)	Existing Power Allowance §164.0002 (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08
479.4	---	---	---	---	---	479.4	125	COMPLIES

Cutoff Compliance (See Table G for Details) Controls Compliance (See Table H for Details)

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

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

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 3 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 For new or altered lighting systems demonstrating compliance with §160.7, 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 §164.0002, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included).

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 ²	Excluded per §160.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumens output §130.2(c)(1)	Field Inspector
P	25.0w LED Wall Light <input type="checkbox"/> Linear	25	CEC Default	5	New	<input type="checkbox"/>	125	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Design Watts:							125		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 (1) Luminaire lighting output: EXCEPT FOR 2 to §160.2(b)
 (2) FOOTNOTES: Authority Having Jurisdiction may use for luminaire cut sheets to confirm wattage used for compliance per §130.2(c)
 1 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.
 2 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 to be Replaced" for existing luminaires which are being removed and replaced as part of the project scope.
 3 Compliance with mandatory cutoff requirements is required for luminaires with initial lumens output >= 6,200 unless exempted by §130.2(b)

G. OUTDOOR LIGHTING (BUS)
 This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 4 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

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 (in unaltered) and luminaires which are removed and reinstalled (being only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

01	02	03	04	05
Area Description	Shut Off §130.2(c)(3)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
Bldg. Exterior	Astronomical Timer	Yes	NA: Facade, etc. <=24 ft	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 (1) Not permitted by health & safety as to control off. EXCEPTION 1 to §130.2(c)

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 5 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

I. LIGHTING POWER ALLOWANCE (per §160.7)
 This table includes areas using allowance calculations per §160.7, General Hardcape Allowance is per Table 160.7.2 while "Use ft or less" Allowances are per Table 160.7.2-8. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use ft or less" allowances shall not qualify for another "Use ft or less" allowance.

01	02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)	
Walkway	Asphalt	2386	0.03	59.65	279	0.4	69.75	129.4	
Initial Wattage Allowance for Entire Site (Watts):								350	
Total General Hardcape Allowance (Watts):								479.4	

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.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 6 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

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 at https://www.energy.ca.gov/sites/default/files/2019-08/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTO-01-E - Must be submitted for all buildings	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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/sites/default/files/2019-08/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16

STATE OF CALIFORNIA
Outdoor Lighting
 NRC-170-E CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRC-170-E
 Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 7 of 7)
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

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

Documentation Author Name: C. Scott Davidson
 Company: Hardin-Davidson Engineering
 Address: 356 Pollasky Ave., Suite 200
 City/State/Zip: Clovis CA 93612
 Phone: 559-323-4995

Documentation Author Signature: [Signature]
 Signature Date: 2020-07-20
 (CA HERS Certification Identification (if applicable): E17850)

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I verify 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 the 2019 Title 24 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: C. Scott Davidson
 Company: Hardin-Davidson Engineering
 Address: 356 Pollasky Ave., Suite 200
 City/State/Zip: Clovis CA 93612
 Phone: 559-323-4995

Responsible Designer Signature: [Signature]
 Date Signed: 2020-07-20
 License: E17850
 Phone: 559-323-4995

Registration Number: Registration Date/Time: Registration Provider: Energsoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-07-20 12:09:16



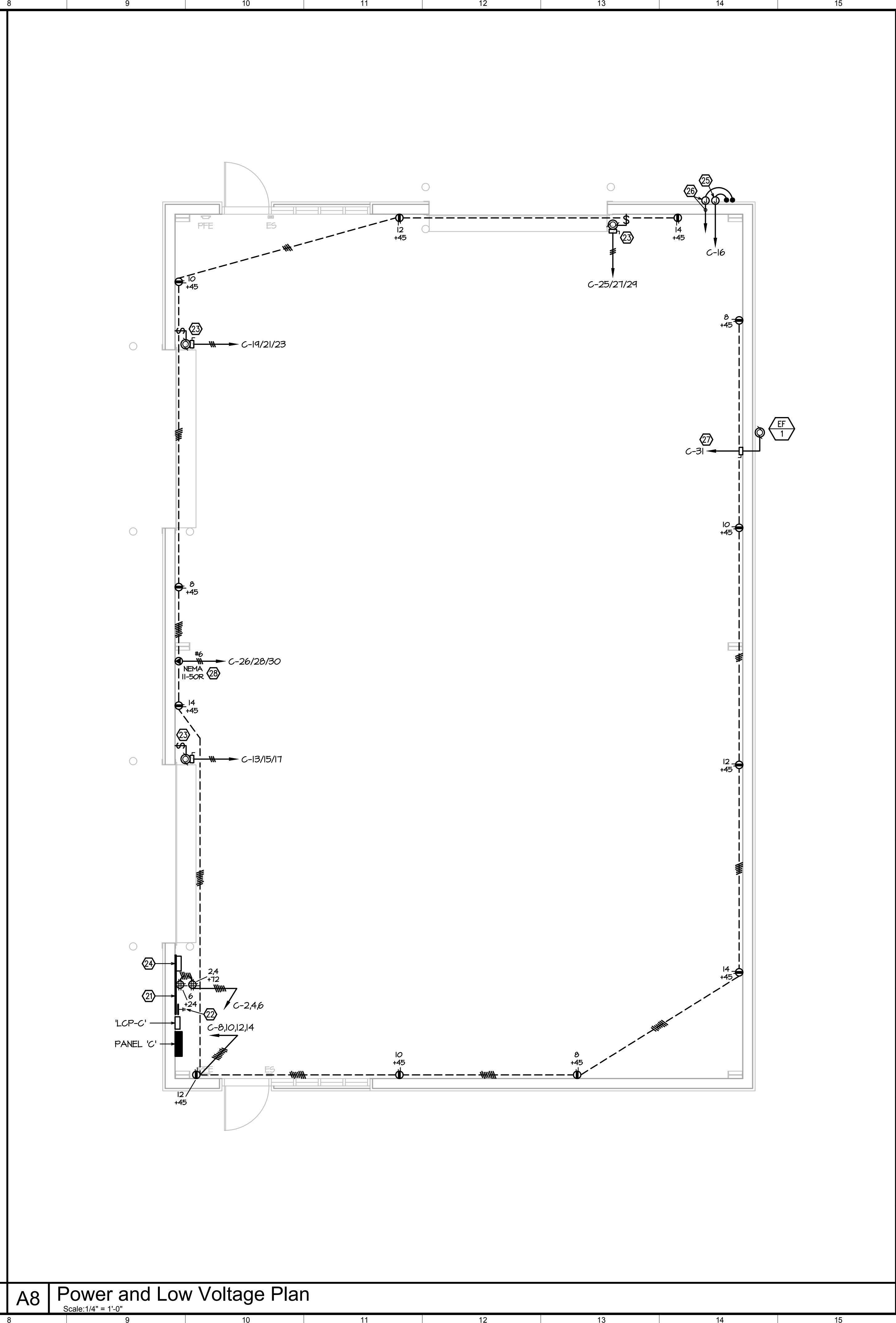
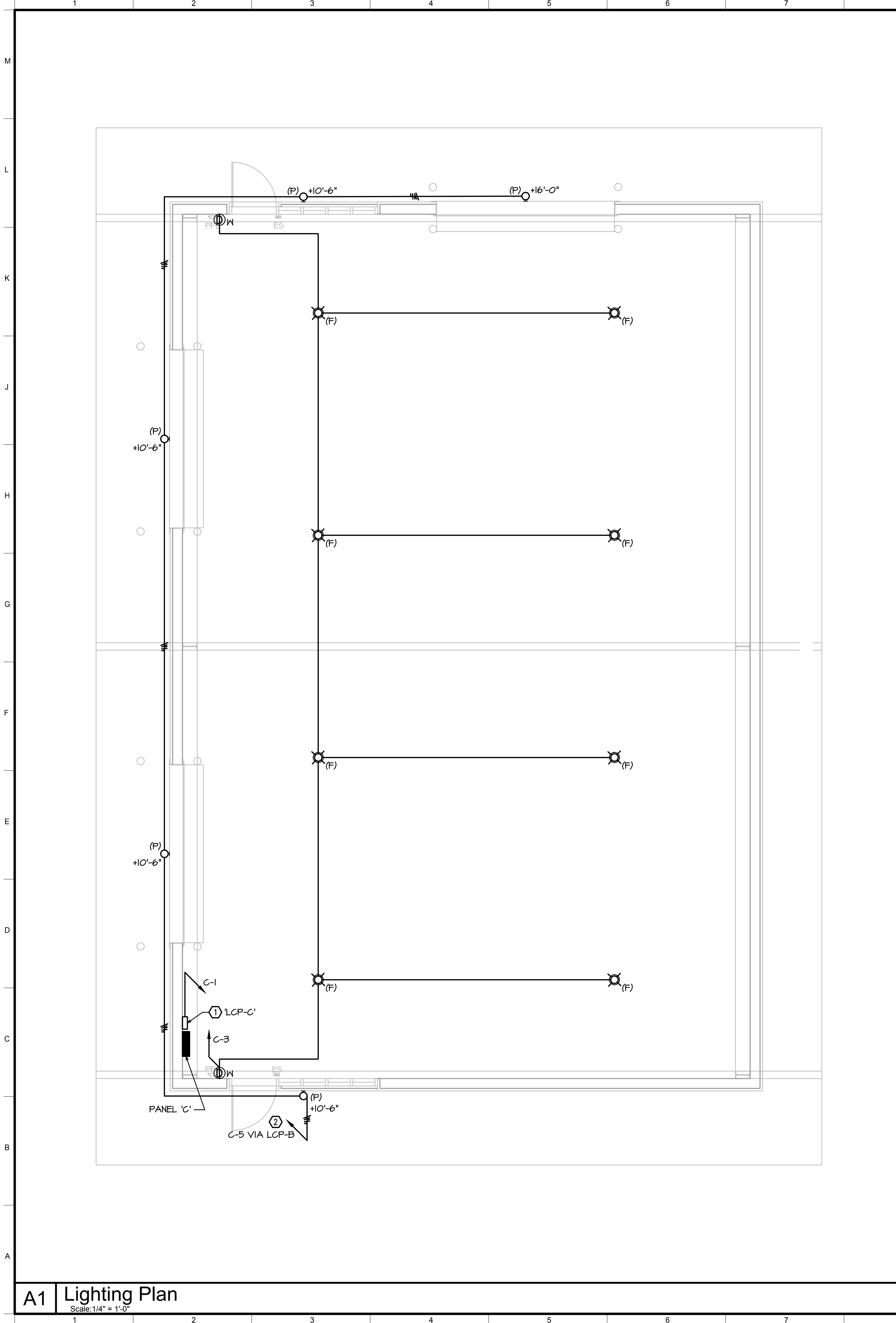
Project:
 Fresno County
 Environmental Compliance Center
 Warehouse Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
 APN: 458-060-72
 Issue Date:
 Project No: T90203
 File Path: G:Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center \ 00 2018 ECC

Sheet Content:
 Title 24 Compliance Documents

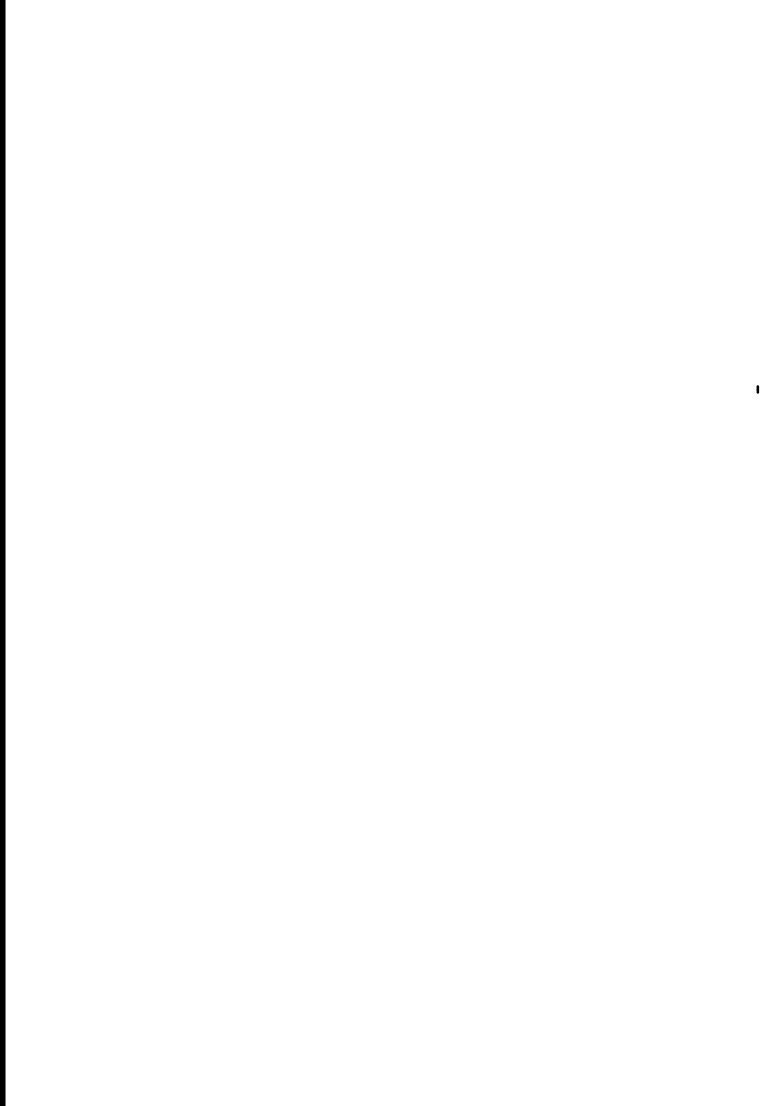


Sheet No.
E1.4

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- KEYNOTES**
1. LIGHTING CONTROL PANEL: LITHONIA FLIGHT ARP PANEL. MOUNT ADJACENT TO POWER PANEL. CONNECT EXTERIOR LIGHTING, PAPER AND DIMMING CONDUCTORS.
 2. PROVIDE VIOLET & GRAY 0-10V DIMMING CONDUCTORS ALONG WITH POWER CONDUCTORS.
 3. 3/4" x 8 FT. HIGH FIRE RESISTANT FLYWOOD BACKBOARD. INSTALL OUTLETS AT 24" AFF. AND 12" AFF. WHERE SHOWN. MOUNT UTILITY MISC. DATA, VOICE, INTRUSION, SPRINKLER MONITOR, AND LEAK DETECTION PANELS AT THIS BOARD.
 4. PROVIDE 12" COPPER COMMUNICATION BUS BAR ON STAND-OFFS. RUN #6 GREEN GROUND WIRE TO MAIN PANEL GEC.
 5. CONNECT ROLL-UP OPERATOR, RAISE/LOWER CONTROLS, AND LIMIT SWITCHES.
 6. SPRINKLER MONITOR PANEL AND LITE DIALER. PROVIDE 120V DEDICATED CIRCUIT AND INSTALL RED LOCKDOWN DEVICE ON CIRCUIT BREAKER. CONNECT FRY TAMPER, RISER TAMPER, AND RISER FLOW SWITCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DRAWINGS, CALCULATIONS, AND CUT SHEETS, AND SUBMITTING THOSE TO THE A/E TO OBTAIN PERMITS FOR THE SPRINKLER MONITOR SYSTEM. THE CONTRACTOR SHALL INCLUDE IN BID ALL WORK REQUIRED FOR THIS SYSTEM.
 7. W/ J-BOX FOR FIRE SPRINKLER RISER BELL. CONNECT TO FLOW SWITCH AND RISER BELL ON NOTED POWER.
 8. W/ J-BOX FOR FIRE SPRINKLER RISER TAMPER AND FLOW SWITCHES. RUN 3/4" TO SPRINKLER RISER PANEL.
 9. HOMERUN VIA CONTROLS PER MECHANICAL DRAWINGS.
 10. PROVIDE OUTLET FOR FORKLIFT CHARGER. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.



Hardin-Davidson Engineering
 356 Pollasky Ave.
 Suite 200
 Clovis, CA 93612
 559.323.4995 tel
 www.hardin-davidson.com



Project:
 Fresno County
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 Warehouse Building
 Project Address: 310 S. West Avenue, Fresno CA 93706
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 File Path: G:\Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
 Warehouse Building
 Electrical Plans



Sheet No.
E2.1

A1 Lighting Plan
 Scale: 1/4" = 1'-0"

A8 Power and Low Voltage Plan
 Scale: 1/4" = 1'-0"