

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 S.F.
WAREHOUSE BUILDING OVERHANG AREA: 1,030 S.F.

TOTAL BUILDING AREA: 3,430 S.F.

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:

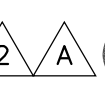
- PHASE 1: SITE AND SHADE STRUCTURE
- PHASE 2: OFFICE / STORAGE BUILDING

DEFERRED APPROVAL:

- PREFABRICATED METAL BUILDING: CONTRACTOR TO SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY. PLANS TO INCLUDE ENGINEERING CALCULATIONS, ERECTION DRAININGS 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.
- 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 MARSHAL PRIOR TO APPROVAL OF OCCUPANCY OF THE BUILDING. SEE SPECIFICATIONS.
- 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:

- 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.
- 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].
- THE CONTRACTOR SHALL PROVIDE (1) ONE NF.P.A. CLASS 2A-10BC FIRE EXTINGUISHER AT THE JOB SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WORK SITE IN A SECURED CONDITION.
- CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFEGUARDS DURING CONSTRUCTION SHALL BE STRICTLY FOLLOWED.
- THE APPROVAL OF THESE PLANS AND SPECIFICATIONS DOES NOT PERMIT THE VIOLATION OF ANY SECTION OF THE BUILDING CODE, MUNICIPAL ORDINANCES, OR STATE LAWS.
- THESE APPROVED PLANS AND RELATED DOCUMENTS MUST BE AVAILABLE AT THE JOB SITE DURING ANY INSPECTION ACTIVITY.
- SOILS AND SPECIAL CONCRETE TESTING SHALL BE CONDUCTED BY THE FRESNO COUNTY MATERIALS AND TESTING LABORATORY.
- STEEL FABRICATION SPECIAL INSPECTION SHALL BE CONDUCTED BY KRAZAN AND ASSOCIATES, 215 WEST DAKOTA AVENUE CLOVIS, CA 93612 (554-348 2200)
- CONTRACTOR SHALL PROVIDE A CHEMICAL TOILET ON SITE DURING CONSTRUCTION.
- CONSTRUCTION WASTE MANAGEMENT PLAN MUST BE FINALIZED PRIOR TO OCCUPANCY.



FRESNO FIRE DEPARTMENT NOTES:

- 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.
- 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.
- 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.
- 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.
- ALL WEATHER ACCESS ROADS SHALL BE INSTALLED AND MAINTAINED IN A SERVICEABLE CONDITION PRIOR TO AND DURING CONSTRUCTION. (FFD DEVELOPMENT POLICY 403.002)
- 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 10-50412.3.

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 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:

- 2014 NFPA 13, AUTOMATIC SPRINKLER SYSTEMS (GA AMENDED)
- 2014 NFPA 72, NATIONAL FIRE ALARM CODE (GA AMENDED); SEE UL STD. 1471 FOR "VISUAL DEVICES"

SHEET INDEX:

60.0 COVER

ARCHITECTURAL SHEETS 10 SHEETS

- A1.1 REFERENCE OVERALL SITE PLAN (SUBMITTED AS PHASE I)
- A1.2 REFERENCE ENLARGED SITE PLAN (SUBMITTED AS PHASE I)
- 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 2 SHEETS

- M1.0 WAREHOUSE BUILDING MECHANICAL PLAN
- M2.0 WAREHOUSE 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:

26 SHEETS 2/A

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.GOV

CONSULTANTS:

CIVIL / LANDSCAPE ENGINEER OF RECORD:

LARS ANDERSEN & ASSOCIATES, INC.

DANIEL ZOLDAK

LIC.# RCE 66124

4645 N. JAGGUELYN AVE.

FRESNO CA, 93722

OFFICE: 554-216-2190

E-MAIL: LAINFO@LARSANDERSEN.COM

STRUCTURAL ENGINEER OF RECORD:

556 STRUCTURAL ENGINEERS, LLP

MICHAEL PAROLINI

LIC.# 54025

2405 NORTH FRESNO STREET, SUITE 120

FRESNO CA, 93720

OFFICE: 554-434-2120

E-MAIL: MICHAEL.PAROLINI@556SE.COM

MECHANICAL / PLUMBING ENGINEER OF RECORD:

LAWRENCE ENGINEERING GROUP

MICHAEL CANTELM

LIC.# 122558B

1084 NORTH MAPLE AVENUE, SUITE 101

FRESNO CA, 93720

OFFICE: 554-431-0101

E-MAIL: MIKE@LEGFRESNO.COM

ELECTRICAL ENGINEER OF RECORD:

HARDIN DAVIDSON ENGINEERING

SCOTT DAVIDSON

LIC.# E11850

556 FOLLAISKY AVENUE SUITE 200

CLOVIS CA, 93612

OFFICE: 554-323-4445

E-MAIL: SD@HARDIN-DAVIDSON.COM

ARCHITECTURAL CONSULTANT:

DYSON & JANZEN ARCHITECTS

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: _____



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



Sheet No.

G0.0

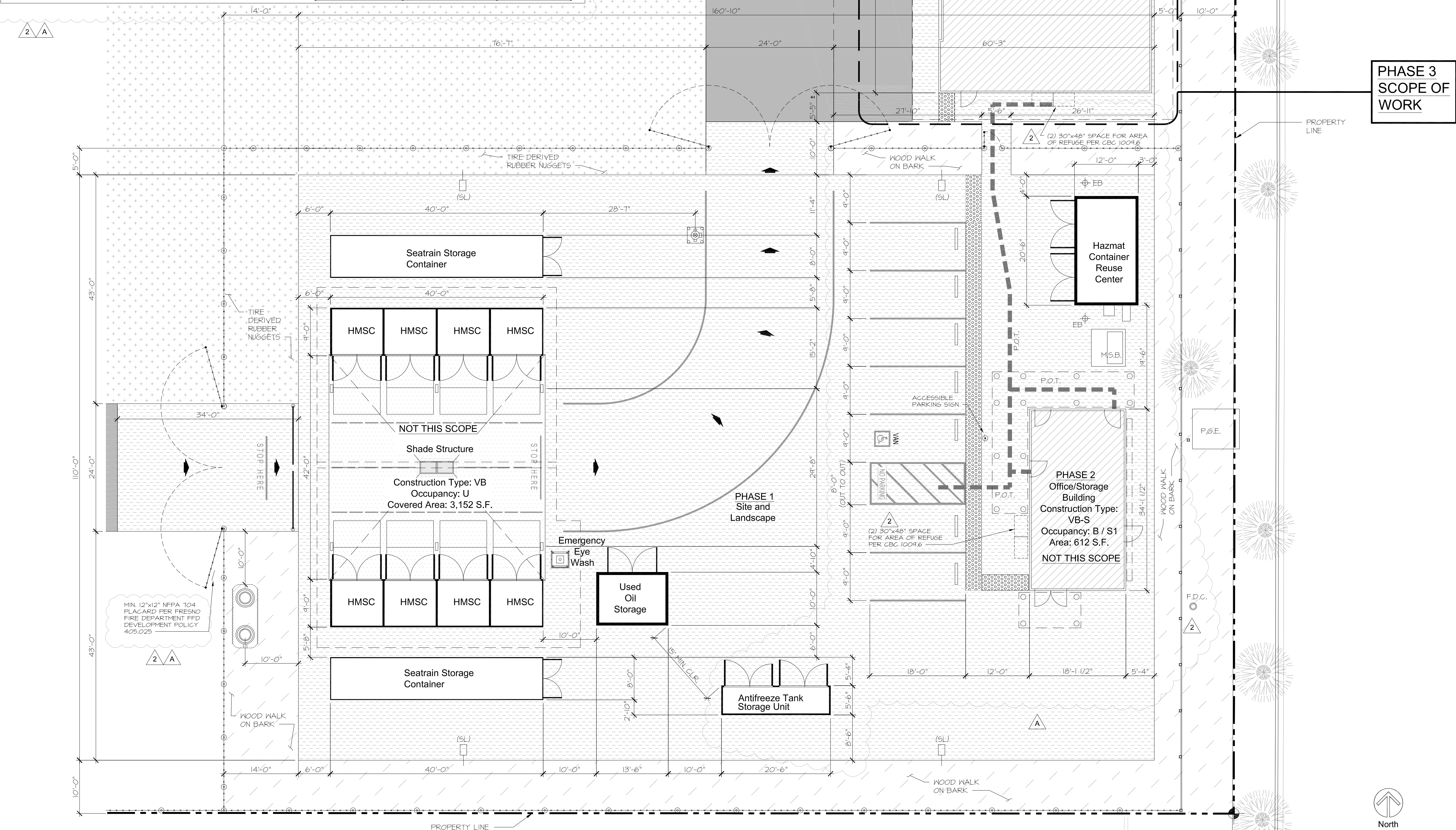
2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
---	--------------------------	---	-----------------------------------

LIST OF CONTENTS STORED AT THE FACILITY

- | | | |
|---|---|---|
| Warehouse
Building type: VB
Occupancy: S
Materials Planned to be stored include the following: No Flammable and no Explosive.
A. Universal Waste
• Dry cell batteries
• Fluorescent bulbs
• Ballasts
• Metal cabinets
B. E-Waste
• Used computers
• Used electronics
• Small appliances
• Battery operated items
• Flat screen tv's
• Mattresses
Office Building & Storage
Building type: VB
Occupancy: B & S
Materials Planned to be stored in the storage include the following:
• Clothing
• Personal protective gear
• Safety glasses
• Gloves
• Tyvek Suits
• Plastic trash bags
• Soap
• Absorbent and spill remediation materials | Shade Structure: Hazardous
Material Storage Containers
Building type: VB
Occupancy: H2- H3 and H4
NFPA Placard provided.
Antifreeze Tank Storage Unit
Building type: VB
Occupancy: H2- H3 and H4
Used Oil Storage
Building type: VB
Occupancy: H2- H3 and H4
Hazmat Container Reuse Center
Building type: VB
Occupancy: H2- H3 and H4
NFPA Placard provided.
Seatrain Storage Containers
Building type: VB
Occupancy: S
1. Universal Waste
• Dry cell batteries
• Fluorescent bulbs
• Ballasts
• Metal cabinets
2. E-Waste
• Used computers
• Used electronics
• Small appliances
• Battery operated items
• Flat screen tv's | Exterior Storage
Materials: Empty wood pallets, drums metal and plastic |
|---|---|---|

Type of Waste	No. of Containers/Weight	Type of Container
Motor Oil	1	1,000 g AST
Automotive Coolant	1	140 gallons
U-waste, Electronics	4000	Lbs.
U-waste Lamps	2000	Linear feet in boxes/drums
Alkaline Batteries	8	55 gal drum
Rechargeable Batteries	4	55 gal drum
Corrosive Acid	8	55 gal drum
Corrosive Base	17	55 gal drum
Cyanide	1	5 gal drum
Aerosols	1	55 gal drum
Flammable Liquid	6	55 gal drum
Flammable Solid	1	Cubic yard
Fertilizer Solids	2	55 gal drum
Latex Paint	20	Cubic yard
Lead Acid Batteries	1	Box of 32
Oil Base Paint	30	Cubic yard
Oxidizer Liquid	1	30 gal drum
Oxidizer Solid	1	30 gal drum
Poison Liquid	25	55 gal drum
Poison Solid	25	Cubic yard
PCB Ballasts	1	55 gal drum
Non-RCRA Oil	6	55 gal drum
Asbestos Roof Tar	1	55 gal drum

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:**
- SWING GATES AT BOTH ENTRY AND EXIT GATE LOCATIONS SHALL BE EQUIPPED WITH A CITY OF FRESNO FIRE DEPARTMENT LOCK.
 - 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.
 - 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.
 - 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
 - F.D.C. FIRE DEPARTMENT CONNECTION PER FRESNO FIRE DEPARTMENT FFD DEVELOPMENT POLICY 405.025

LICENSED ARCHITECT

 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
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

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

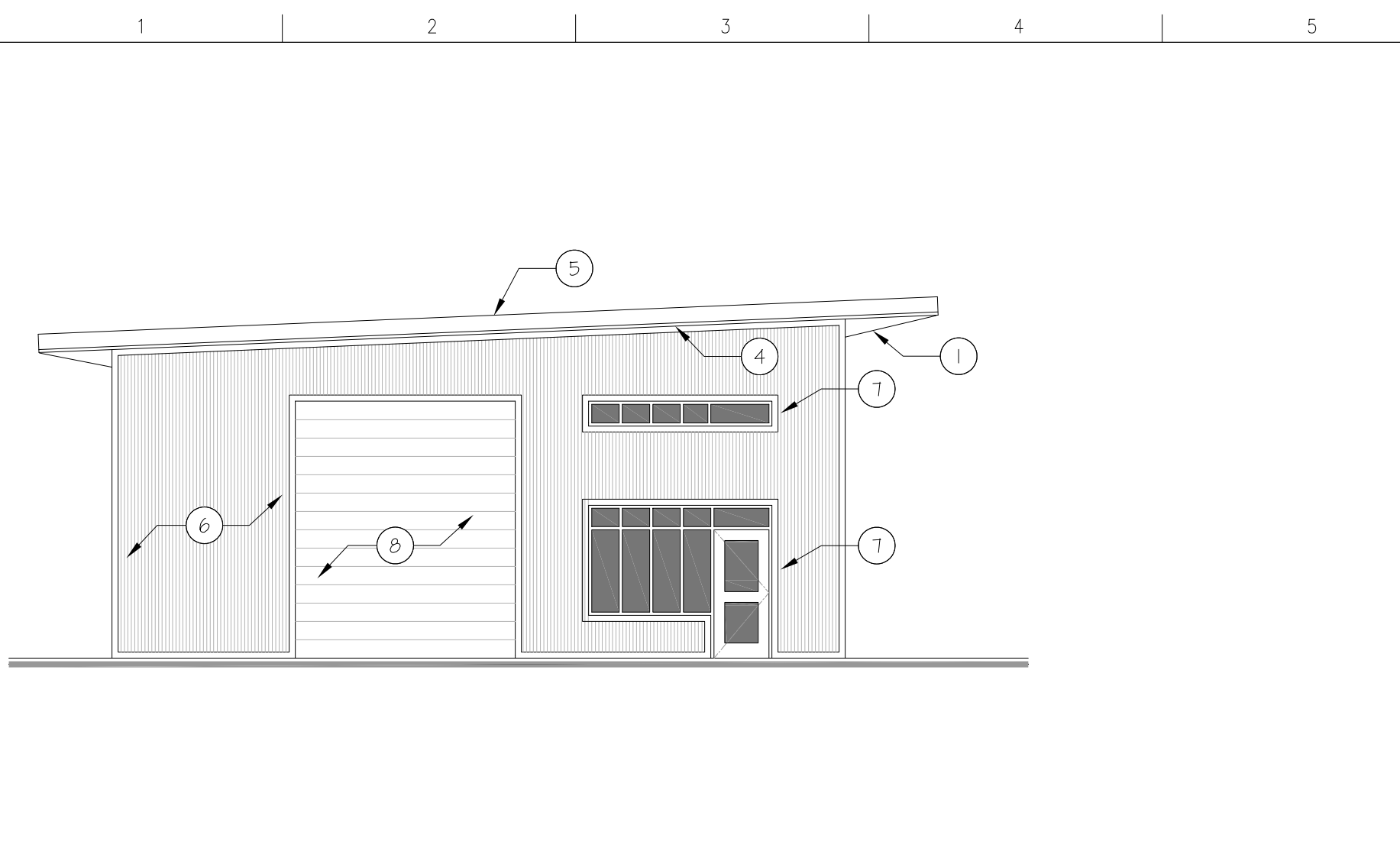
Sheet Content:
 Enlarged Site plan

Fresno County Department of Public Works and Planning
 Capital Projects

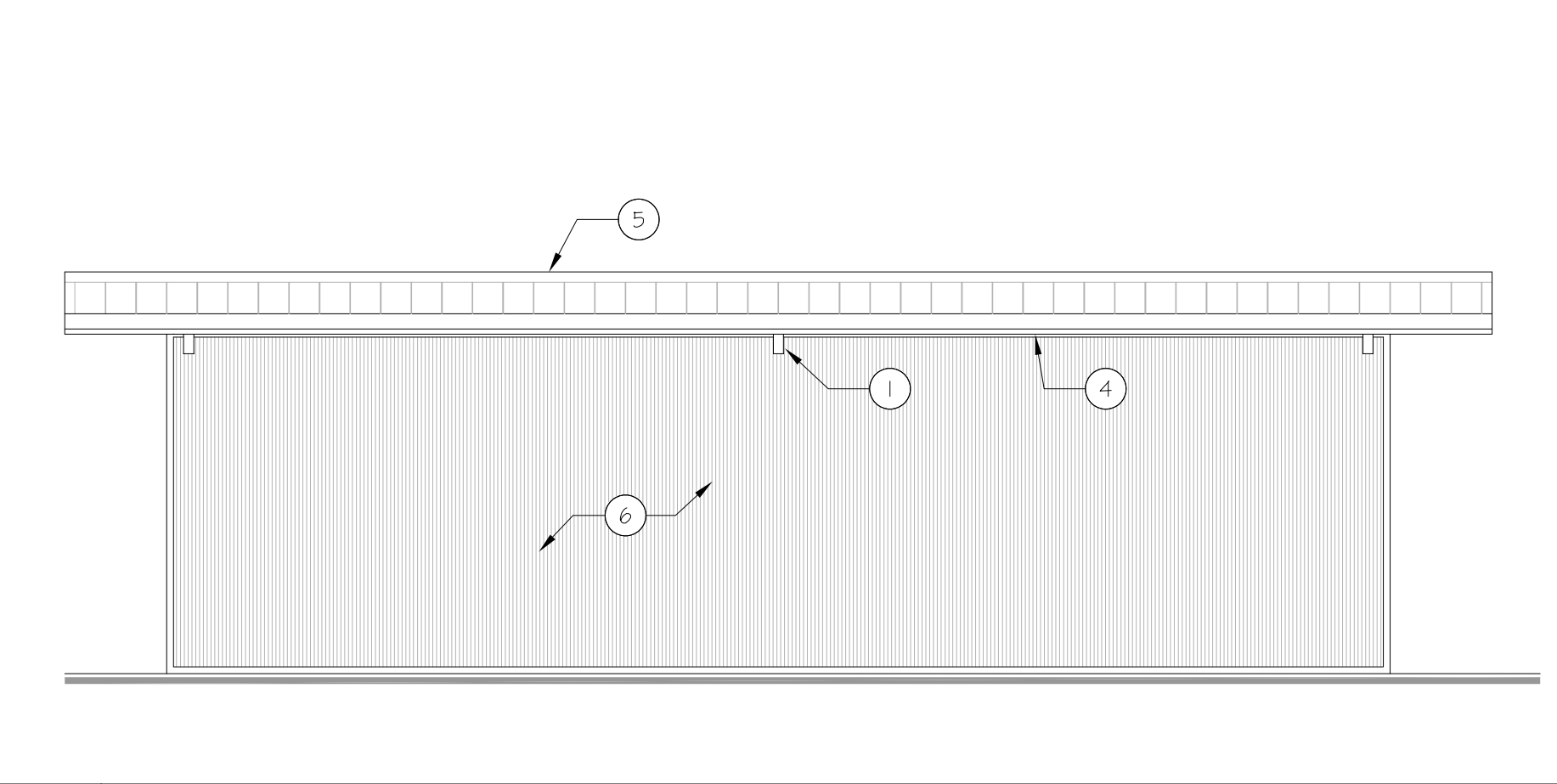
2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
A1.2

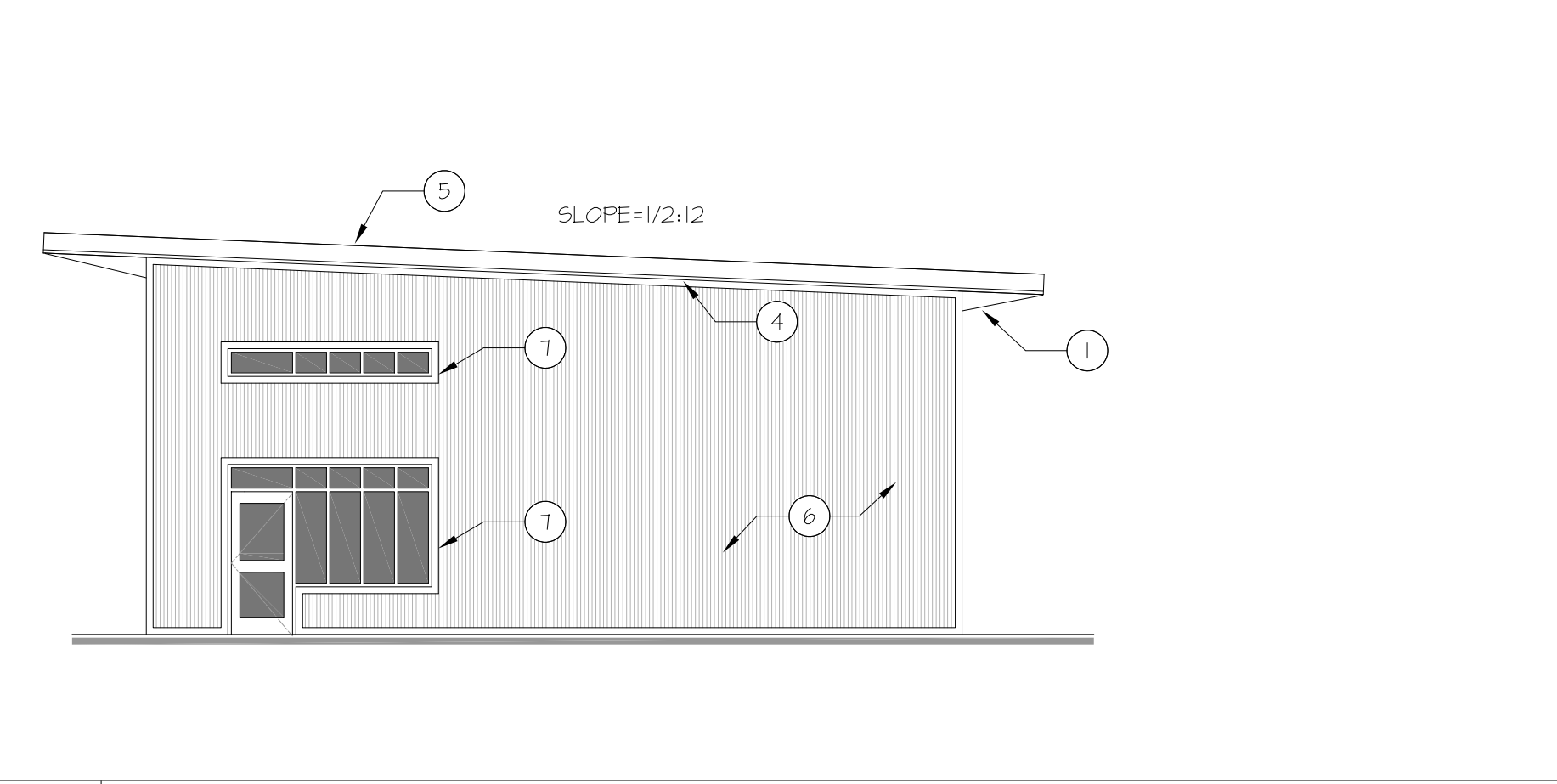
Bid Addendum 2 5-21-2021
 Plan Review Corrections 5-21-2021



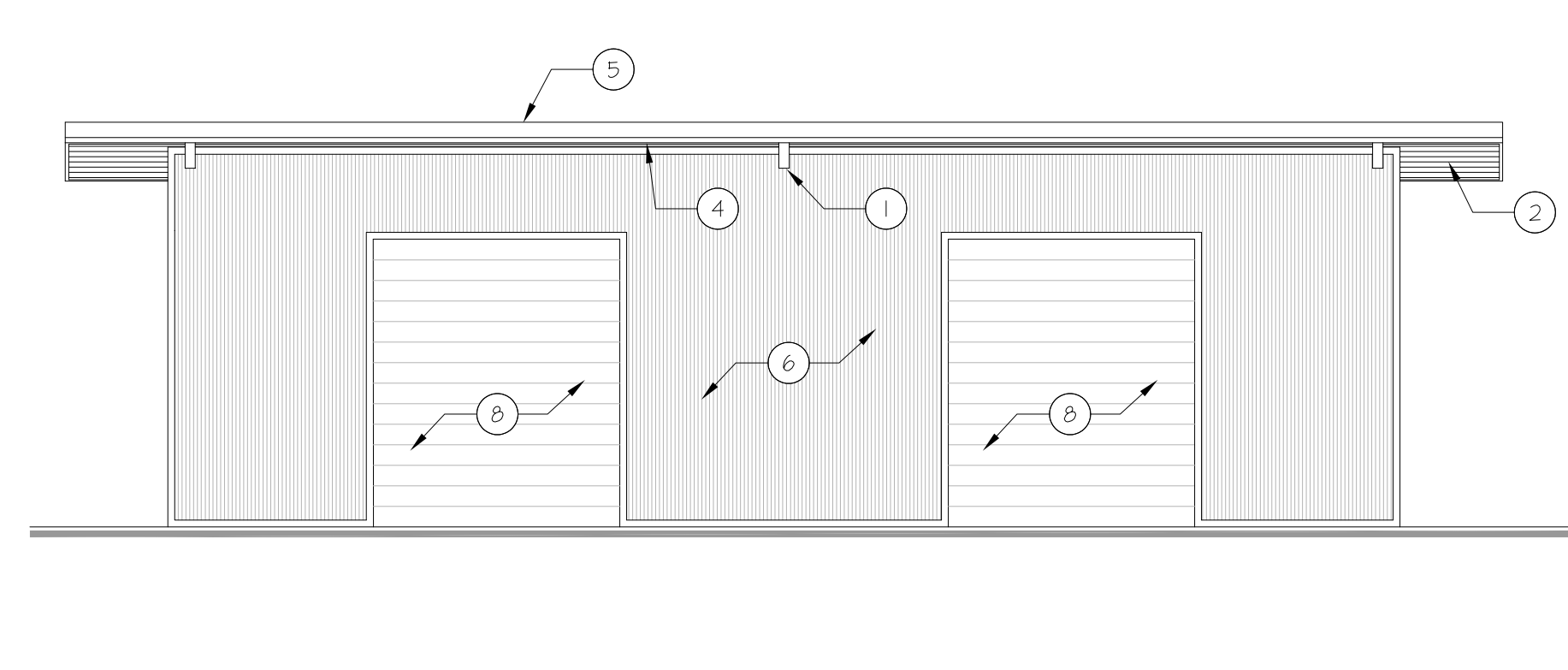
J1 North Elevation
Scale: 1/8" = 1'-0"



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



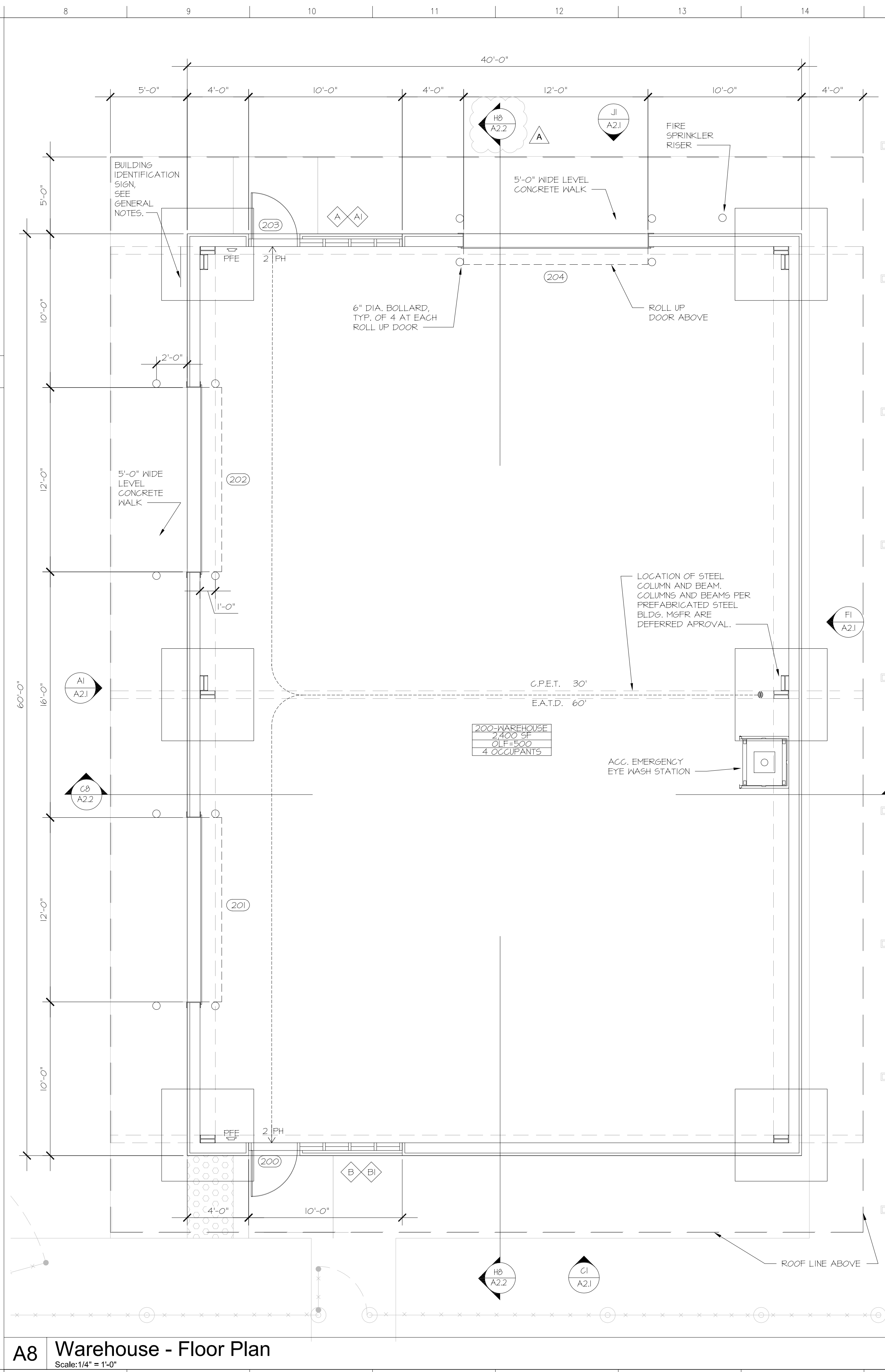
C1 South Elevation
Scale: 1/8" = 1'-0"



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

- ELEVATION KEYNOTES**
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.

OCCUPANCY VB-5
BUILDING PERIMETER 200'
ACTUAL # OF STORIES (HEIGHT) 1 (22')
AUTOMATIC FIRE SPRINKLER YES
ALLOWABLE TOTAL BUILDING AREA 22,000 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 2A10B.C 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.

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

ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
Fresno County Department of
Public Works & Planning
Development Services and
Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

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

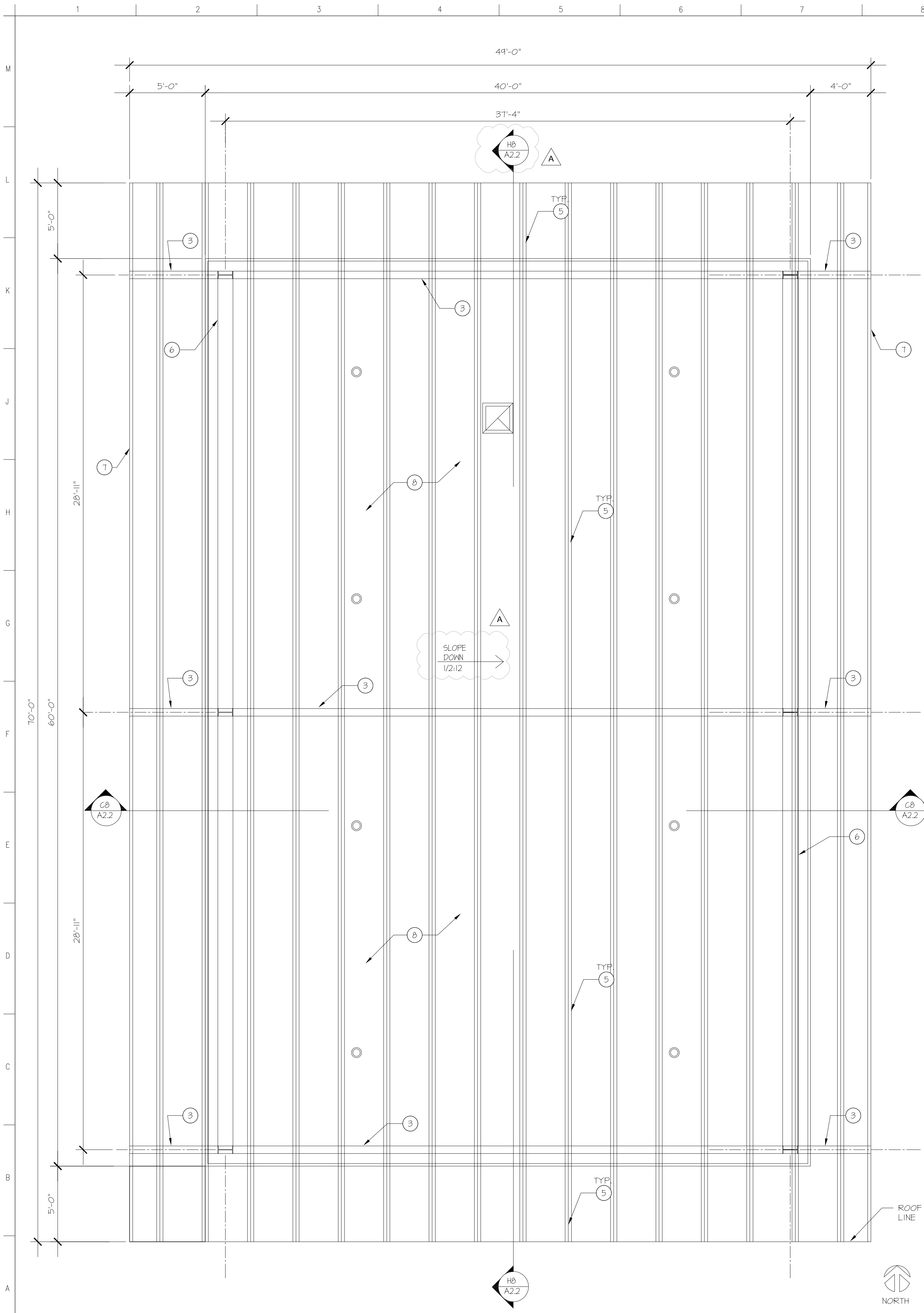
Sheet Content:
Floor Plan & Elevations

Fresno County Department of Public Works and Planning
Capital Projects

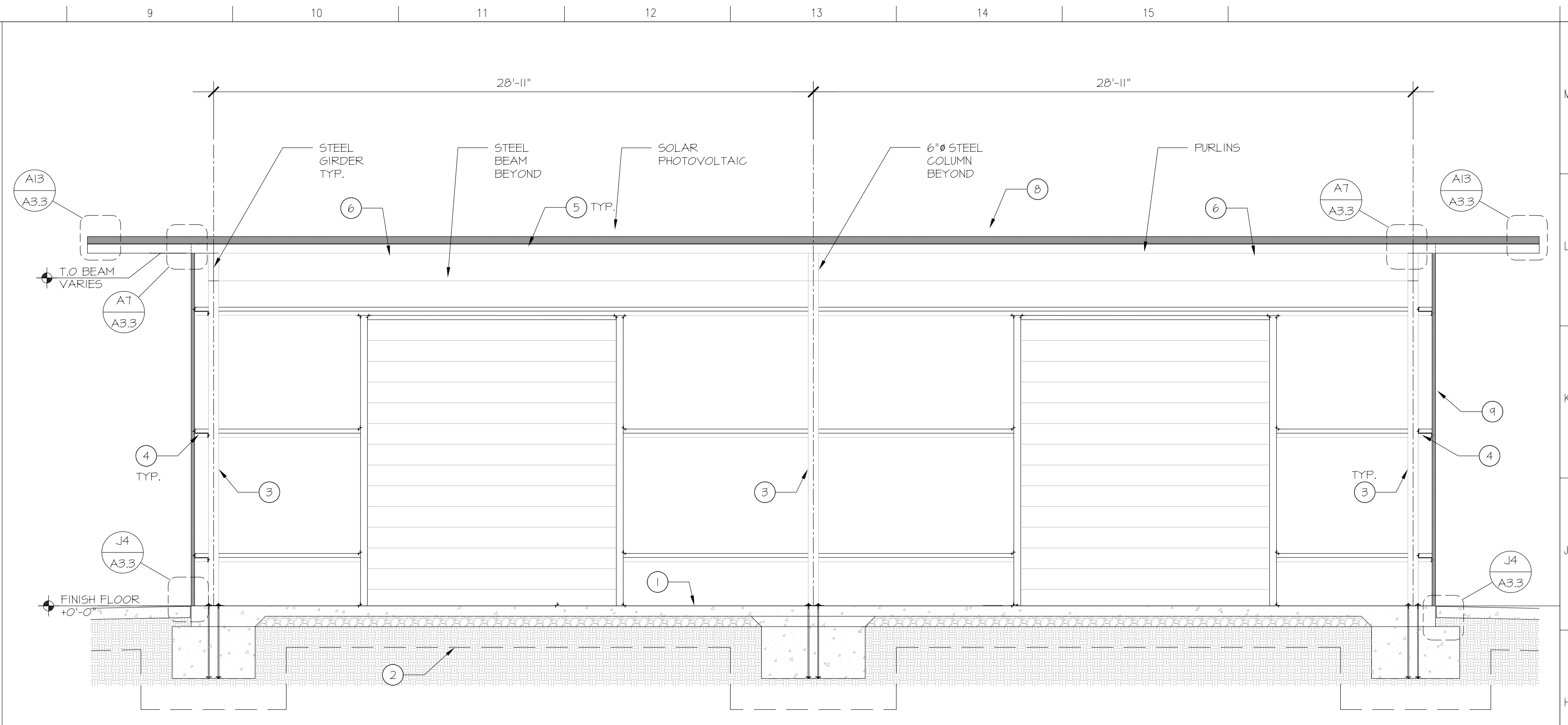
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A2.1

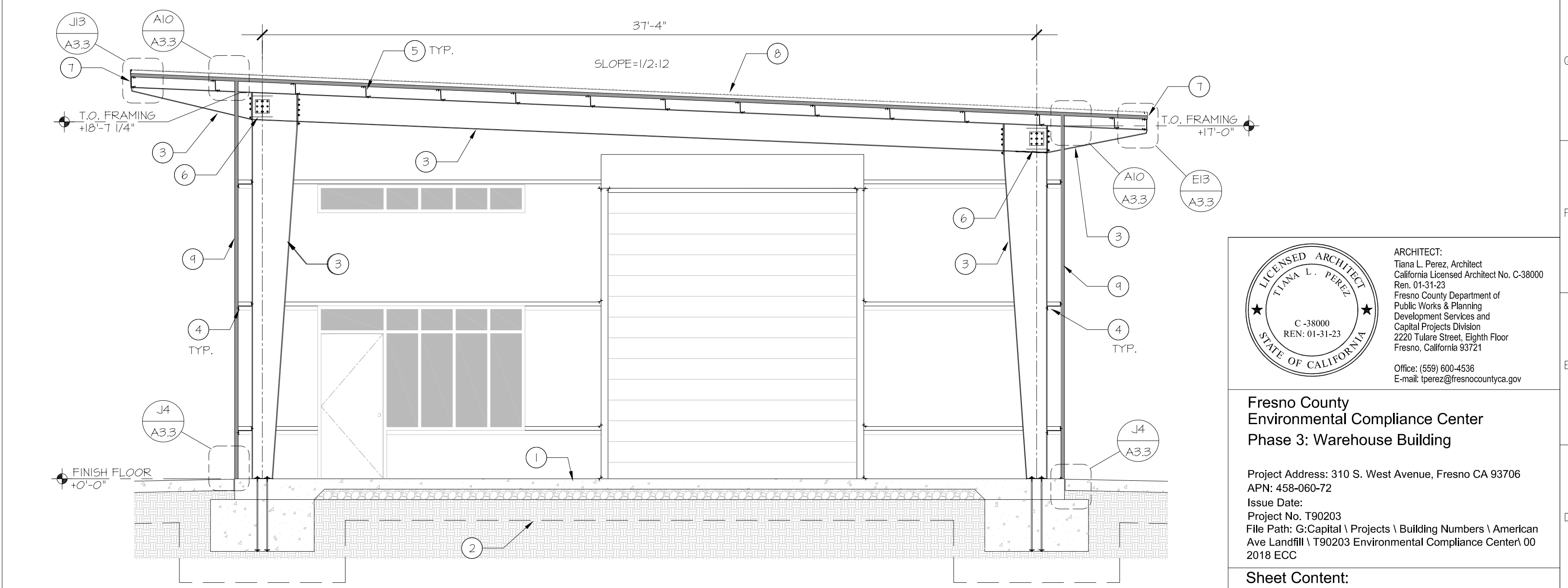
2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
---	-----------------------------	---	--------------------------------------



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



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.

A8 Ceiling Legend

A11 Keynotes



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



Sheet No.
A2.2

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
---	-----------------------------	---	--------------------------------------

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

- 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.
- ALL STAIN PAINT, SEALER AND ACCENT COLORS SHALL BE AS SELECTED BY ARCHITECT.
- 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.
- 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.
- ALL EXPOSED METAL SHALL BE PRIMED AND PAINTED. COLORS AS SELECTED BY ARCHITECT/OWNER.
- 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.
- 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.
- FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION: ALL FINISHES SHALL HAVE A CLASS 1/1 FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION OF 450 OR BETTER TO MEET CBC SECTION 805 REQUIREMENTS. ALL DECORATIVE MATERIAL MUST BE FLAME RETARDANT TREATED.

F10 FINISH SCHEDULES NOTES



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
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

**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:
Finish Schedule

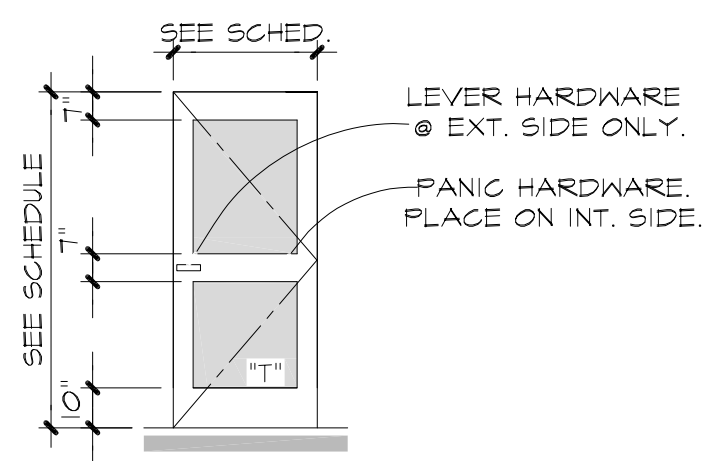
Fresno County Department of
Public Works and Planning
Capital Projects



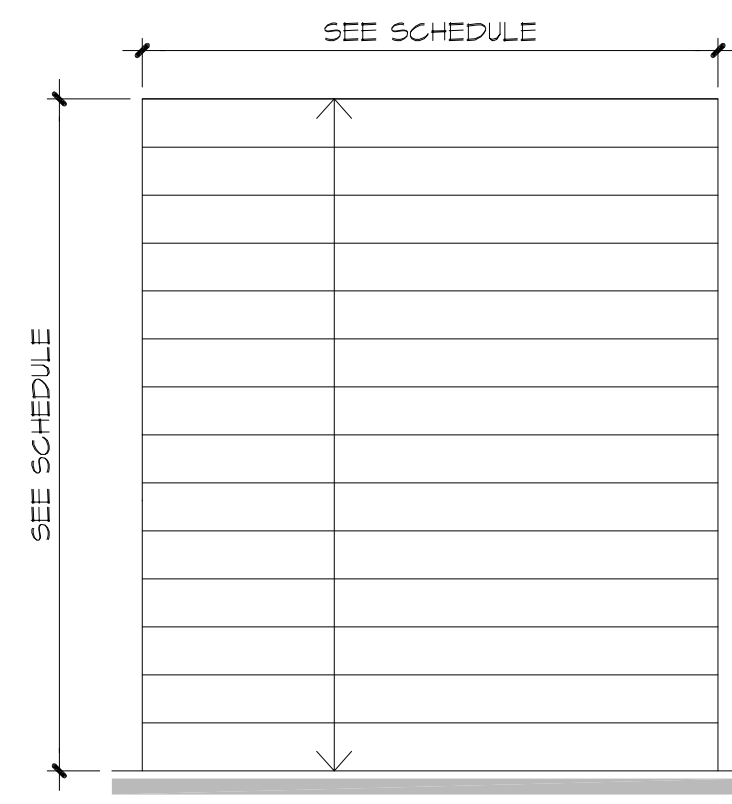
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.
A3.1

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
---	-----------------------------	---	--------------------------------------



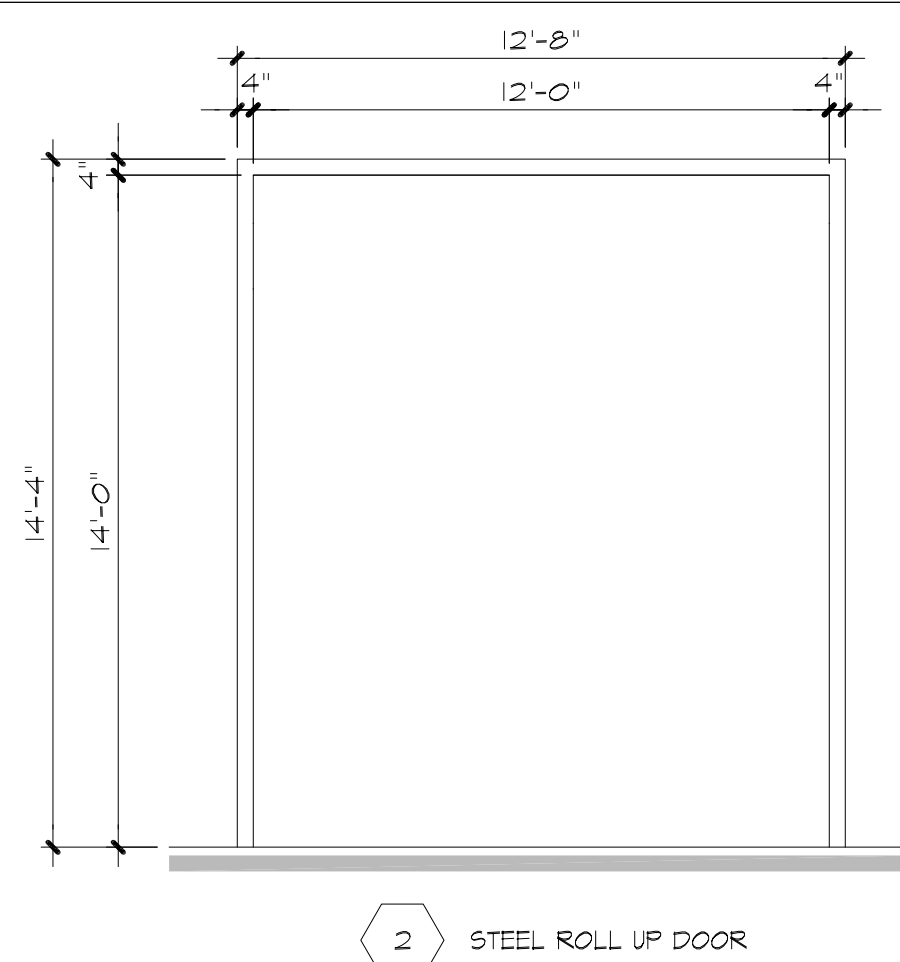
TYPE FG



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 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	-

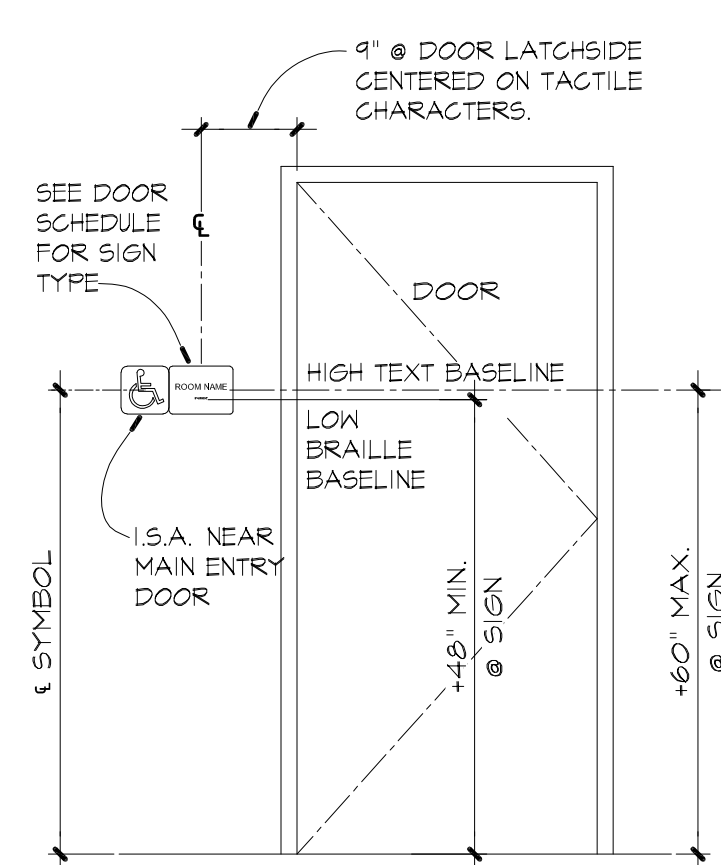
L6 DOOR SCHEDULE SEE (XX) SYMBOL ON FLOOR PLANS

- 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 0.61.
- SEE THIS SHEET FOR SIGNAGE DETAIL, SIGNAGE TYPE DESIGNATION AND INSTALLATION CRITERIA.
- REFER TO FLOOR PLAN FOR SIGNAGE LOCATION.

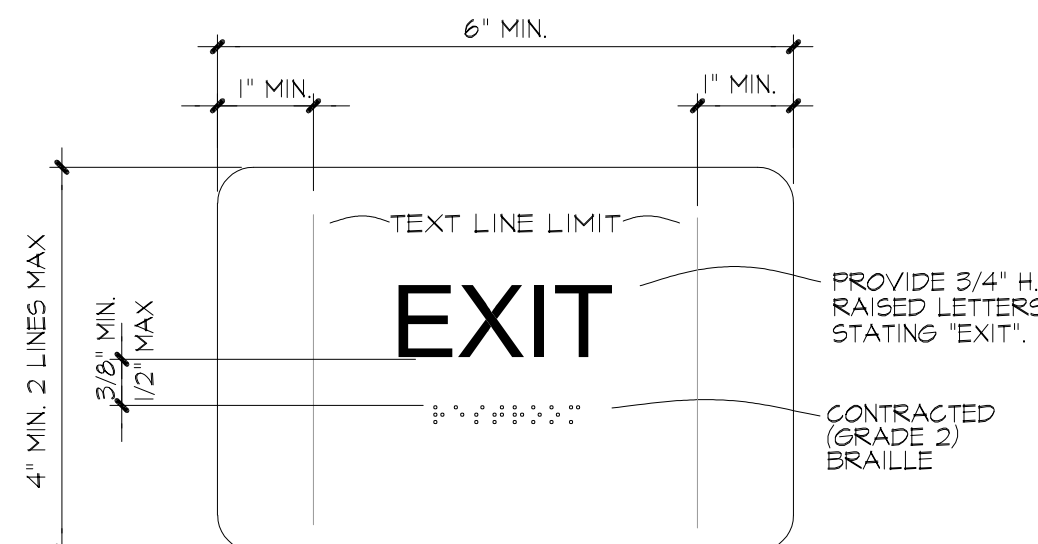
J6 DOOR SCHEDULE NOTES

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.

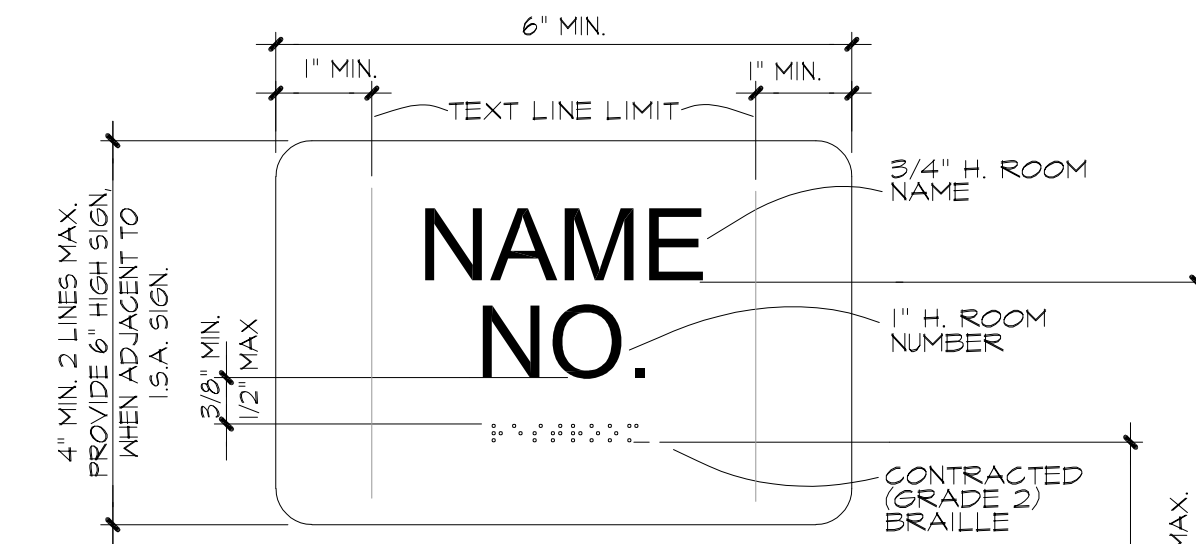


S1 TYPICAL SIGN PLACEMENT
1/2" = 1'-0"



- 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



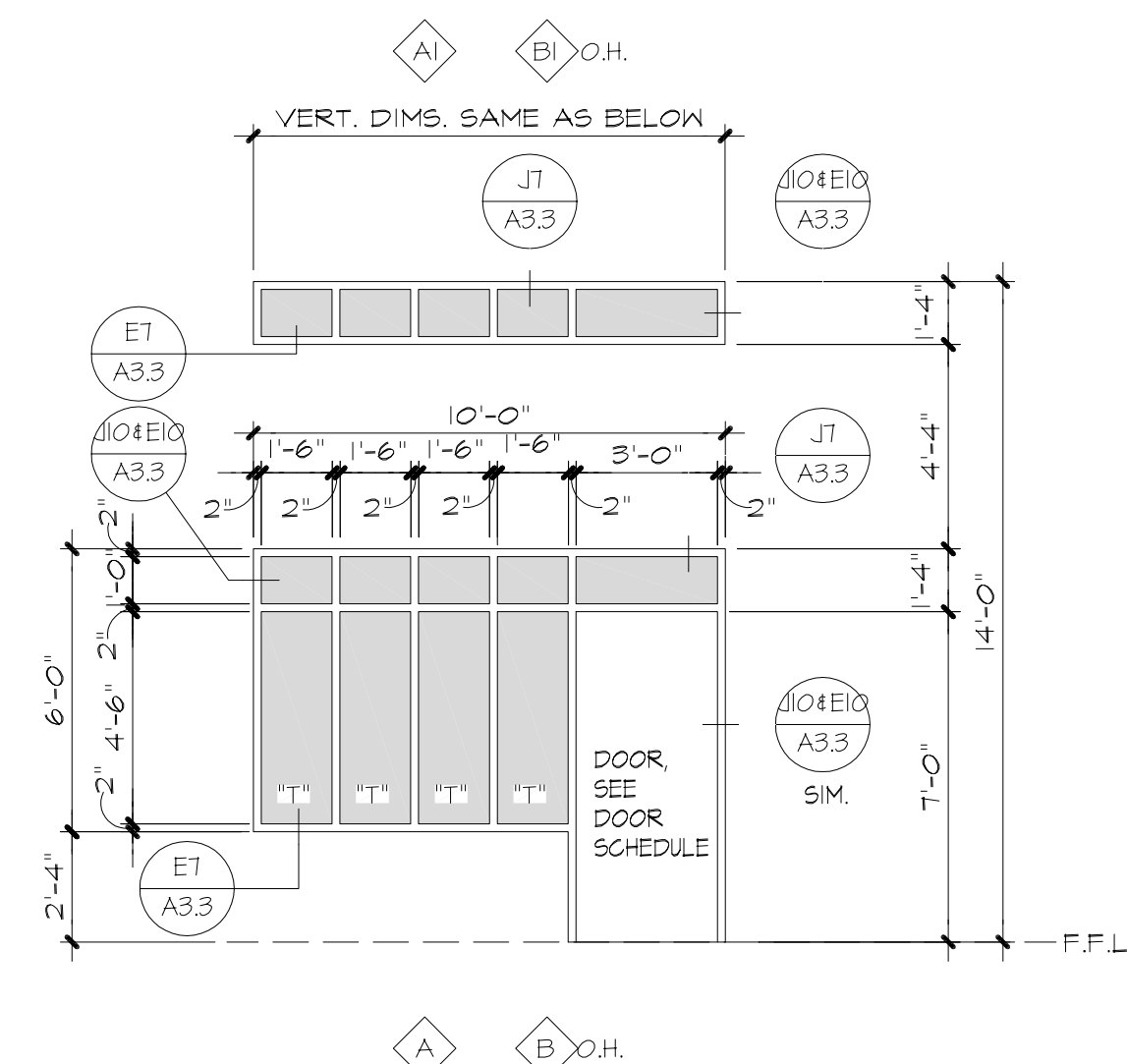
- NOTES:
- PLAQUE SIZE TO BE DETERMINED BY TEXT. SEE SPECIFICATIONS FOR MORE INFORMATION. TEXT TO BE SANS SERIF BOLD, RAISED 1/32".
 - VERIFY ROOM NAME AND NUMBER WITH OWNER.
 - SEE DETAIL S1/THIS SHEET FOR MOUNTING INFORMATION.

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.



A6 WINDOW ELEVATION

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



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
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

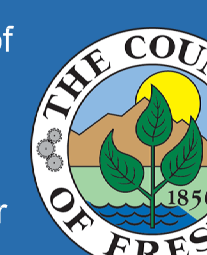
Fresno County Environmental Compliance Center Phase 3: Warehouse Building

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:

Door Schedule & Window Elevation

Fresno County Department of Public Works and Planning Capital Projects

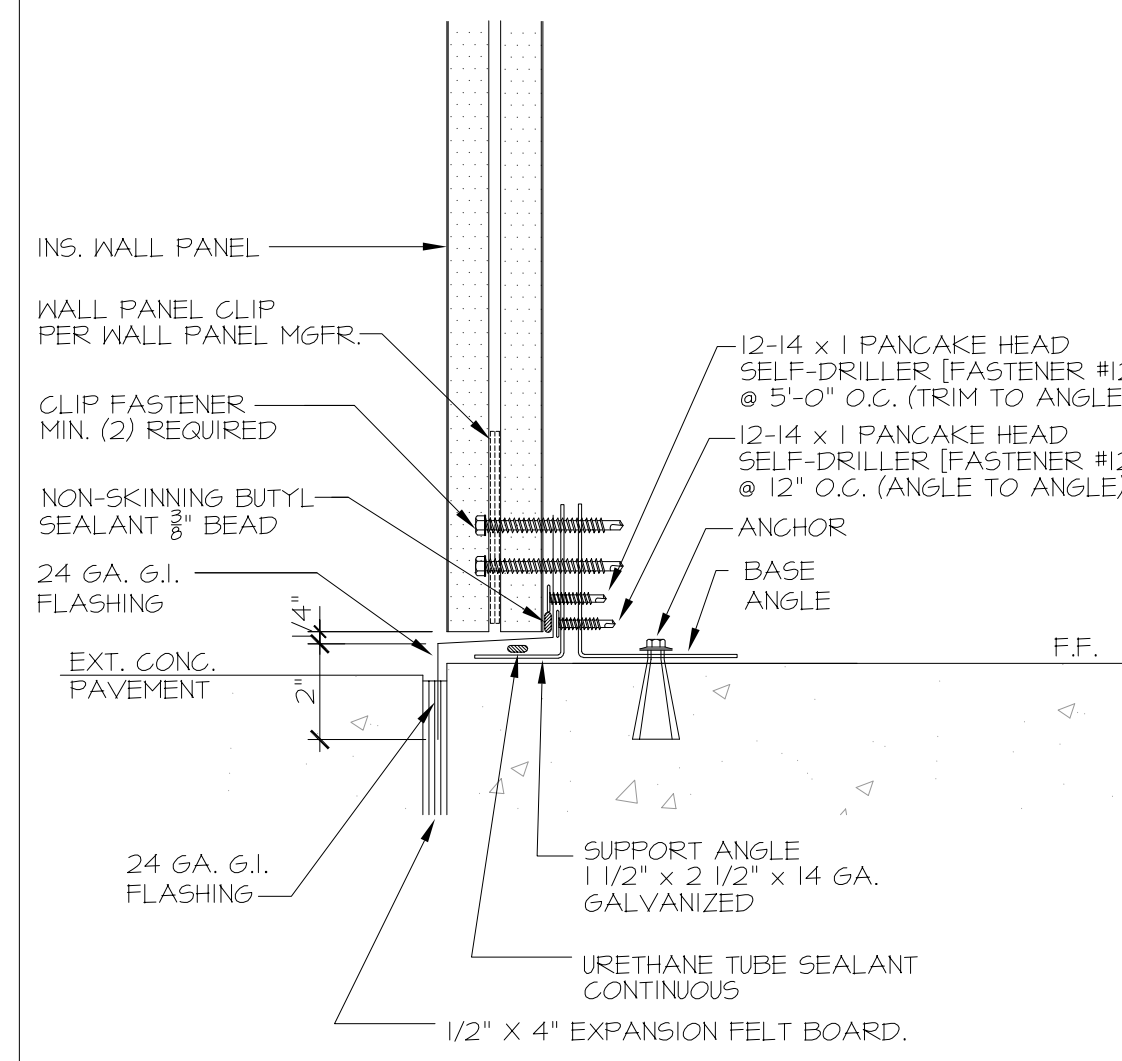


2220 Tulare Street, 8th Floor Fresno, California 93721

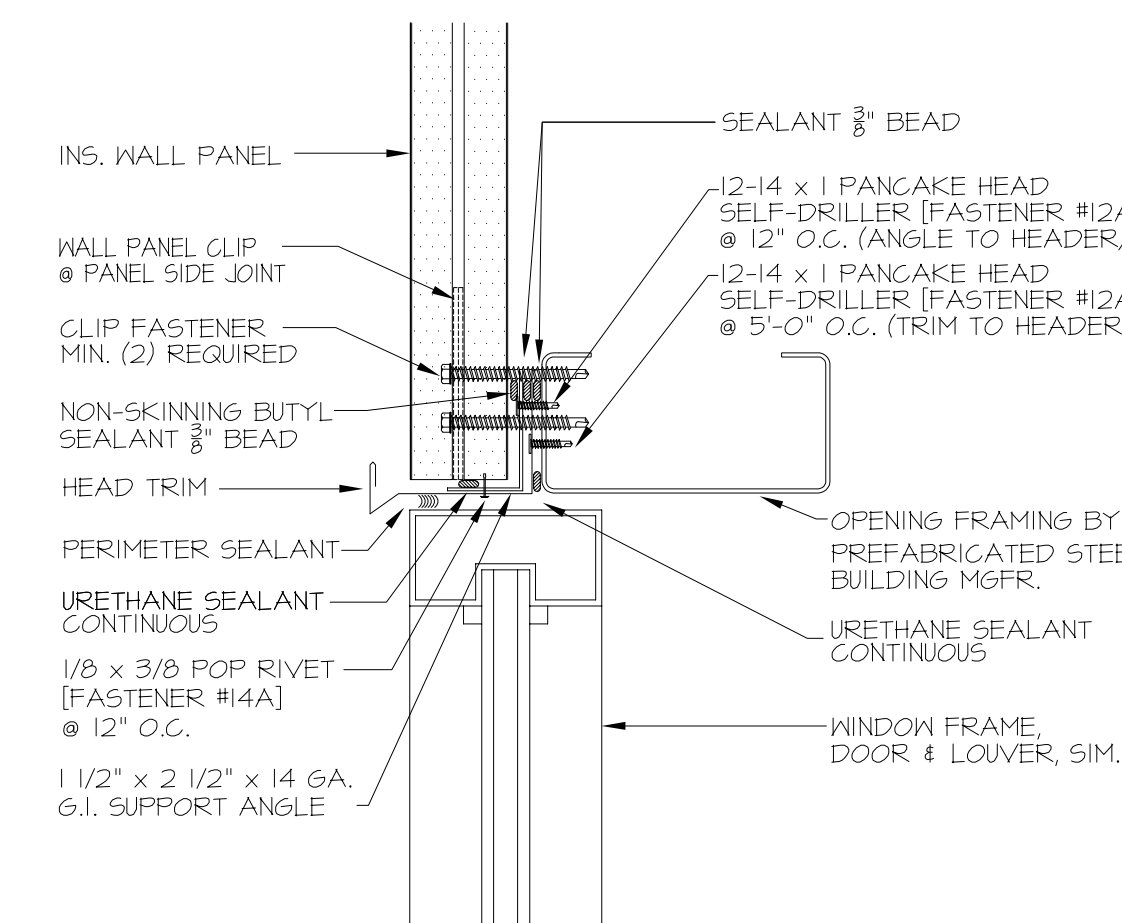
Sheet No.

A3.2

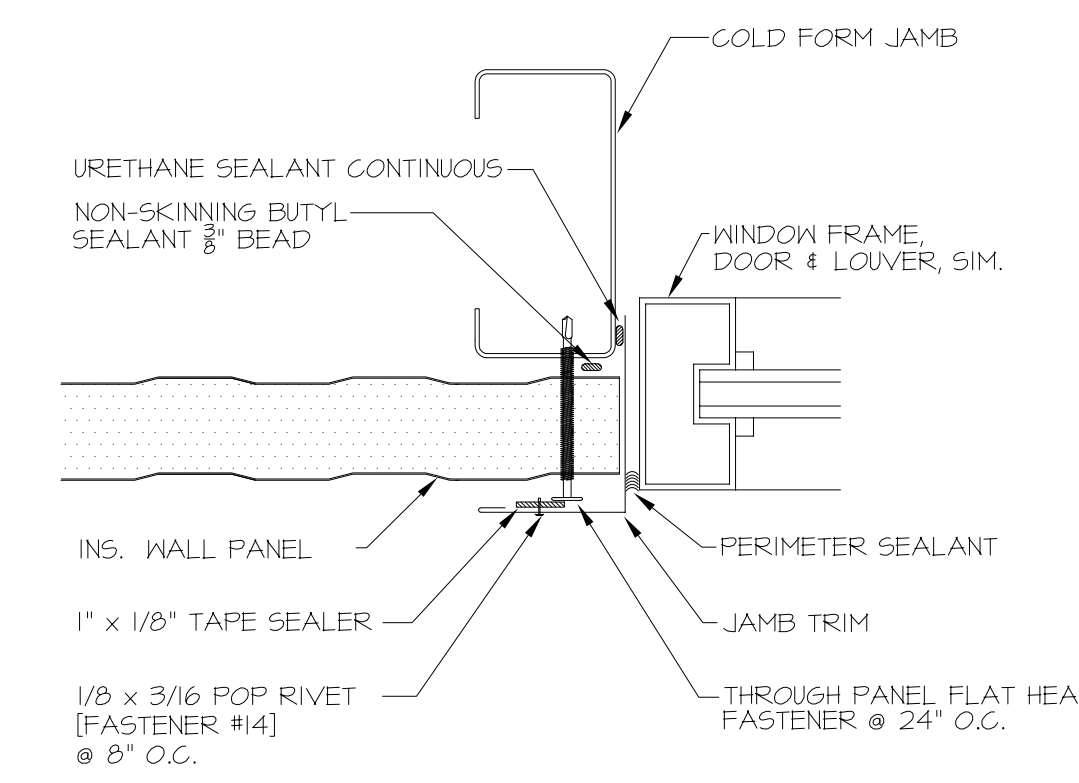
2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
---	--------------------------	---	-----------------------------------



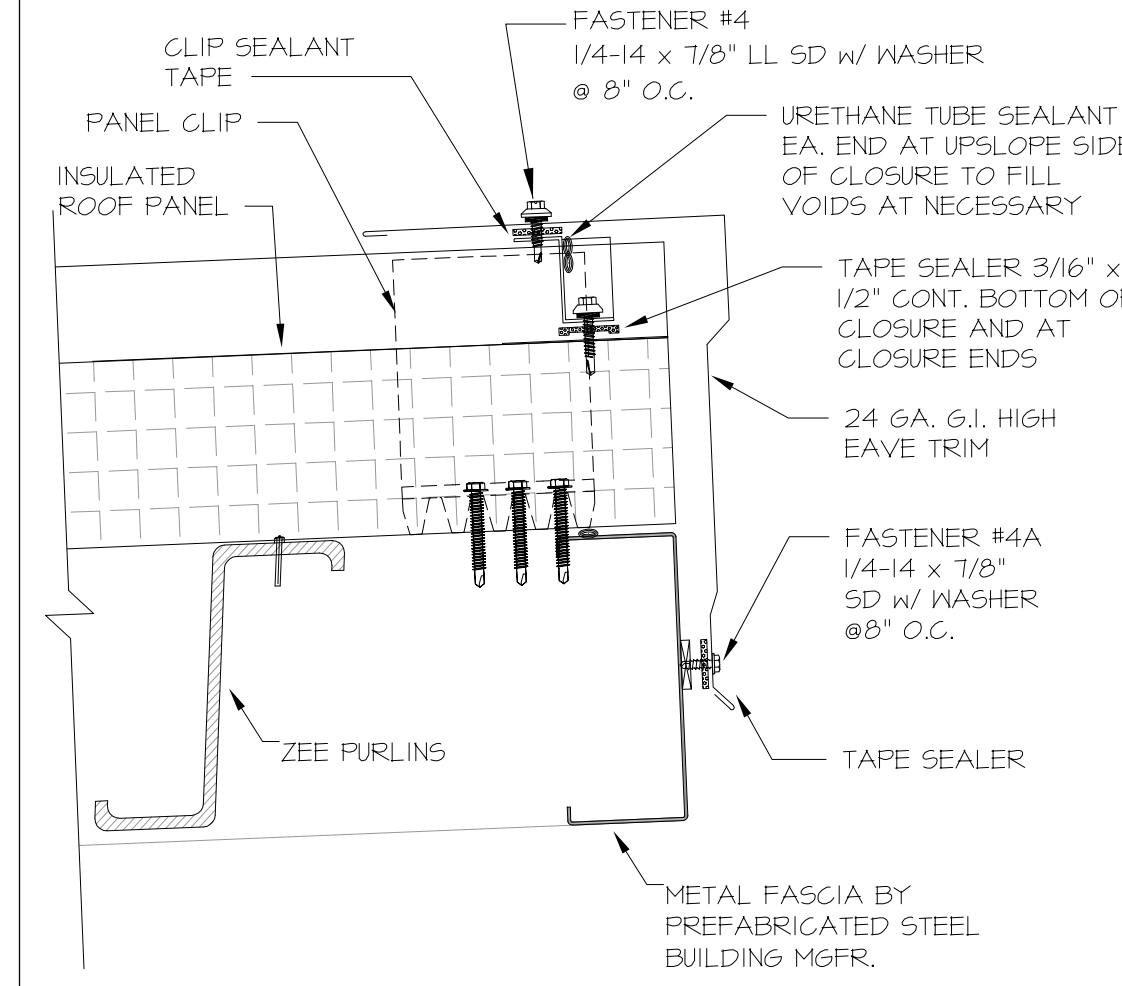
J4 WALL BASE DETAIL



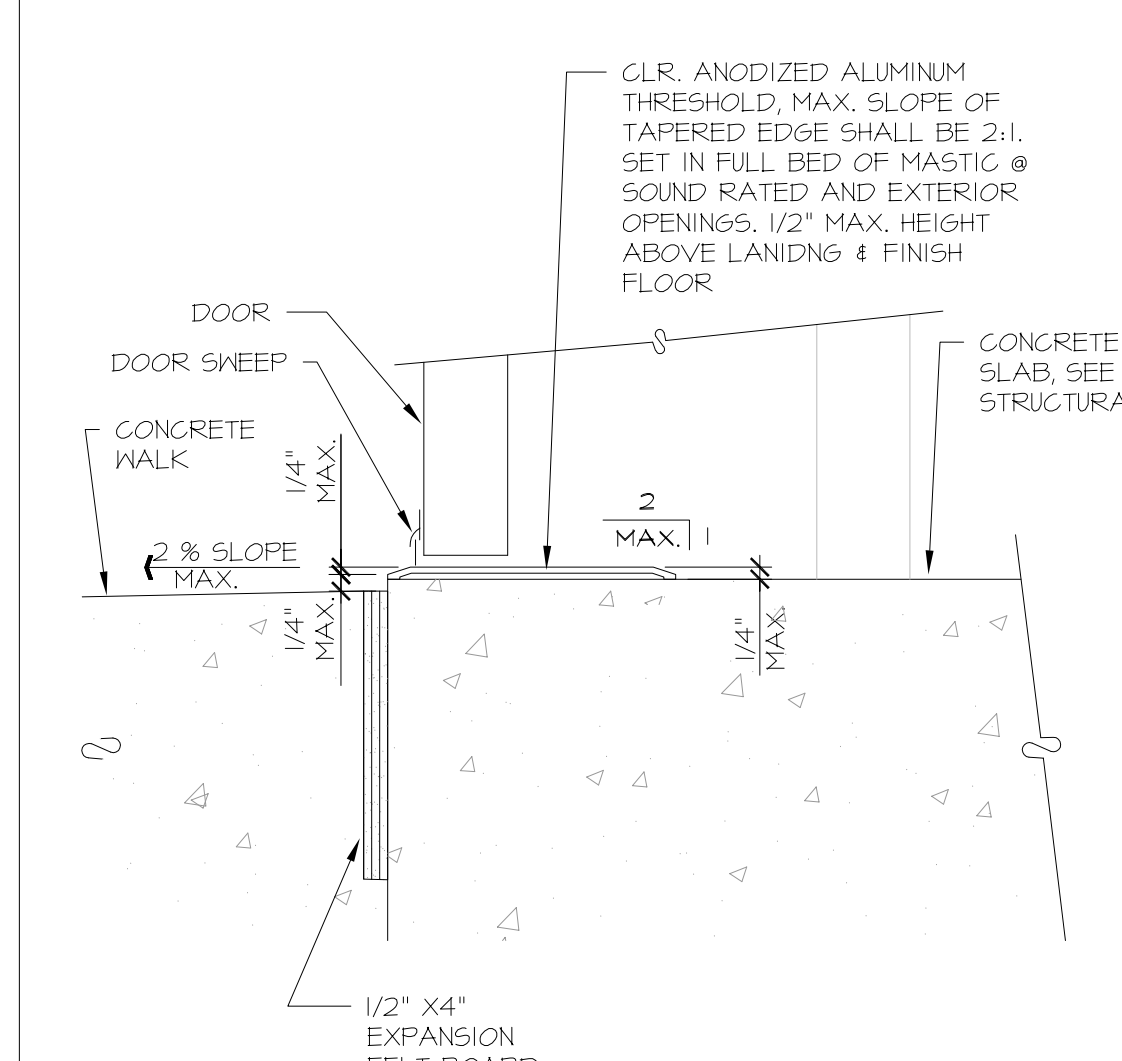
J7 WINDOW HEAD DETAIL



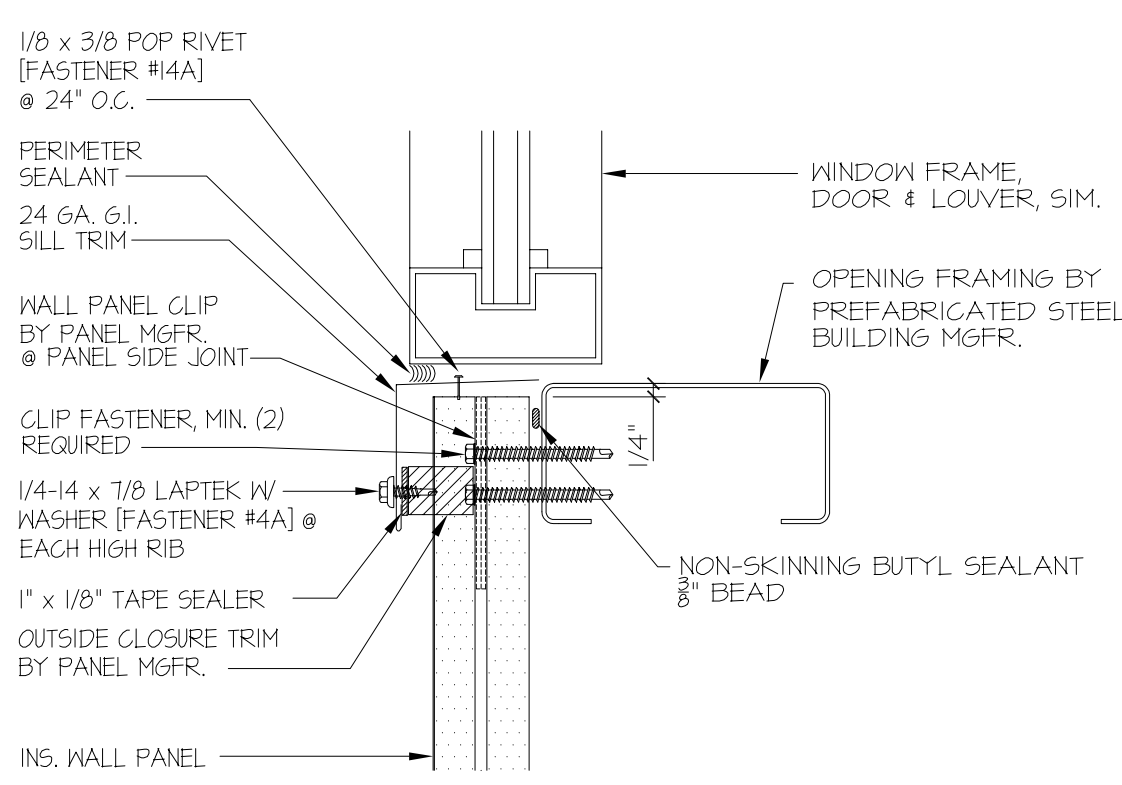
J10 JAMB DETAIL



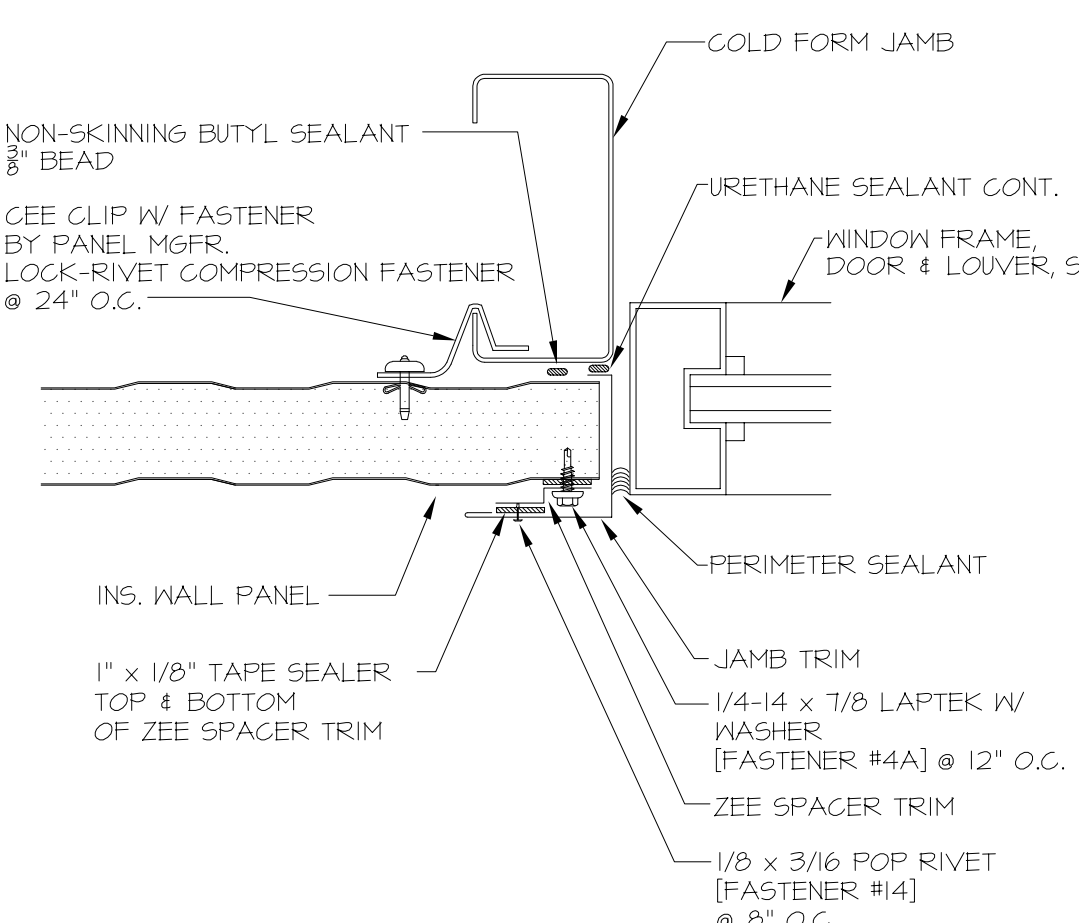
J13 HIGH EAVE DETAIL



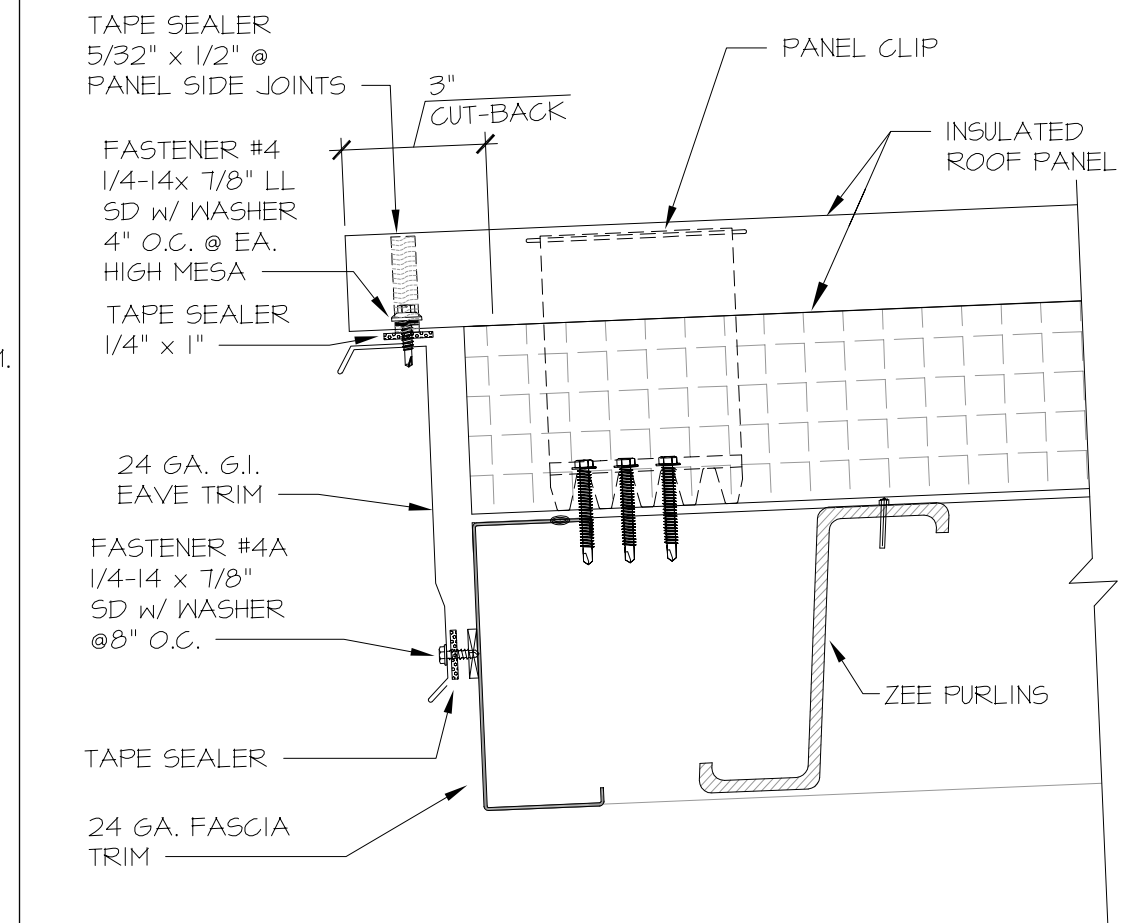
E4 TYP. THRESHOLD DETAIL



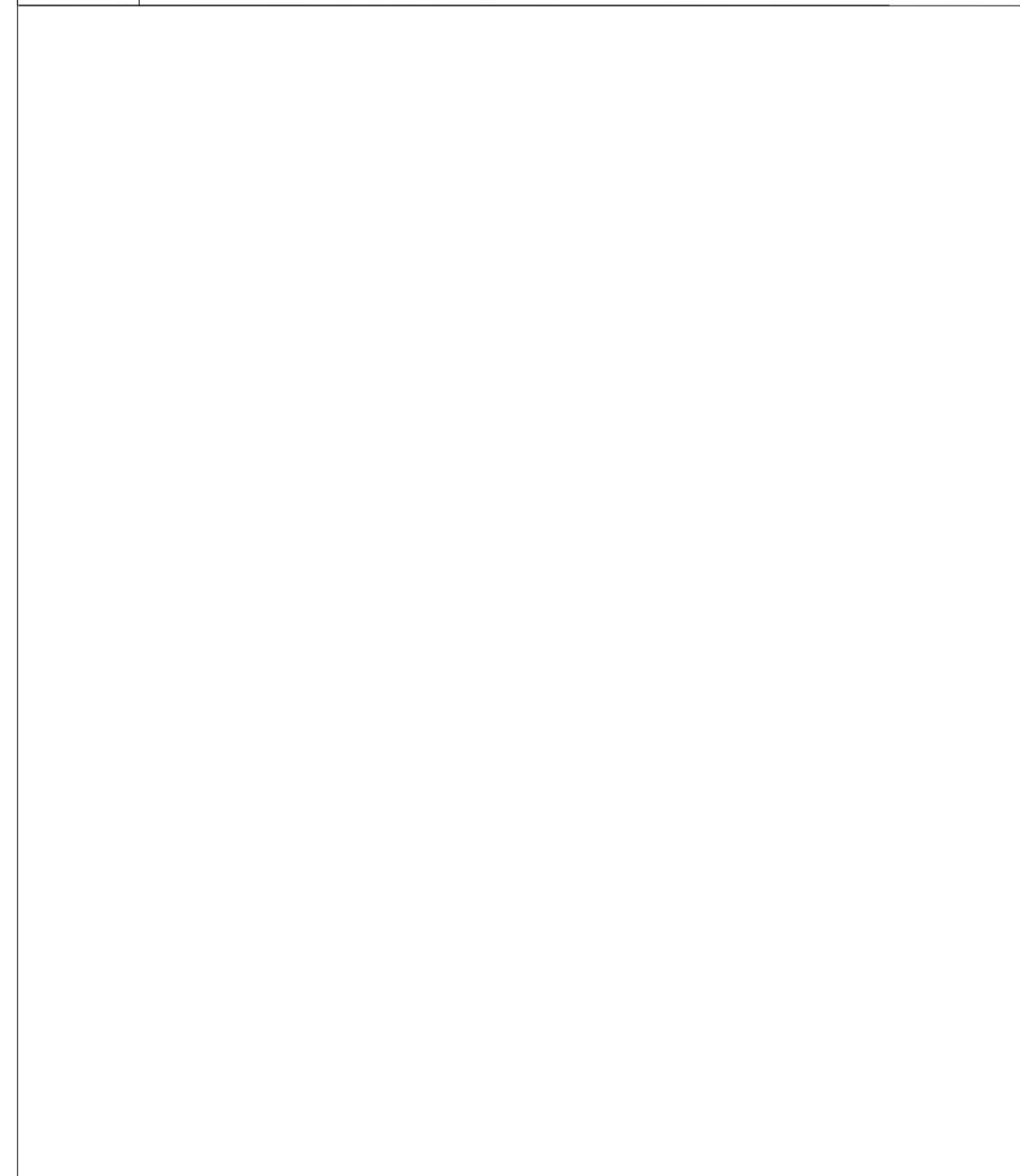
E7 WINDOW SILL DETAIL



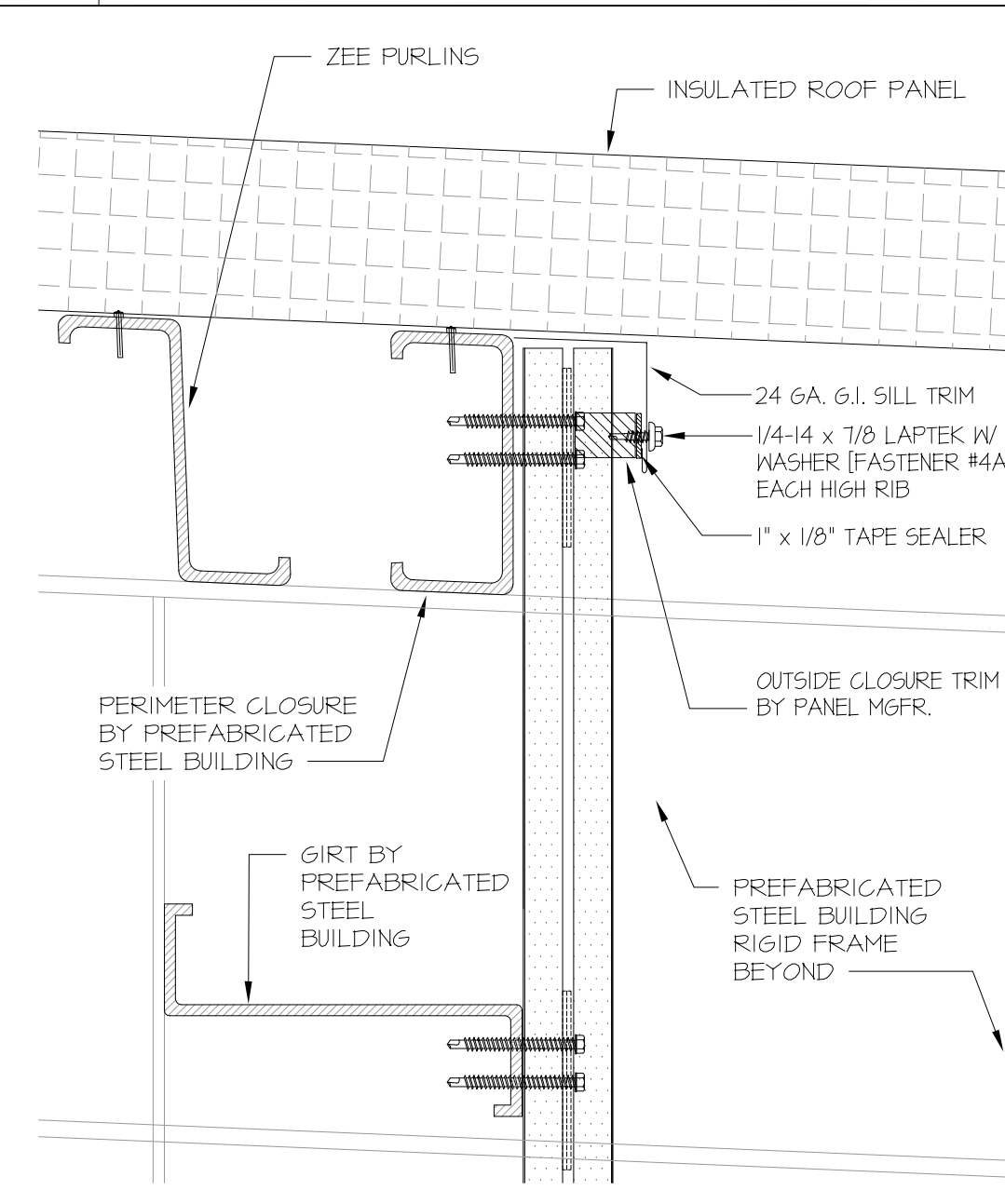
E10 JAMB DETAIL



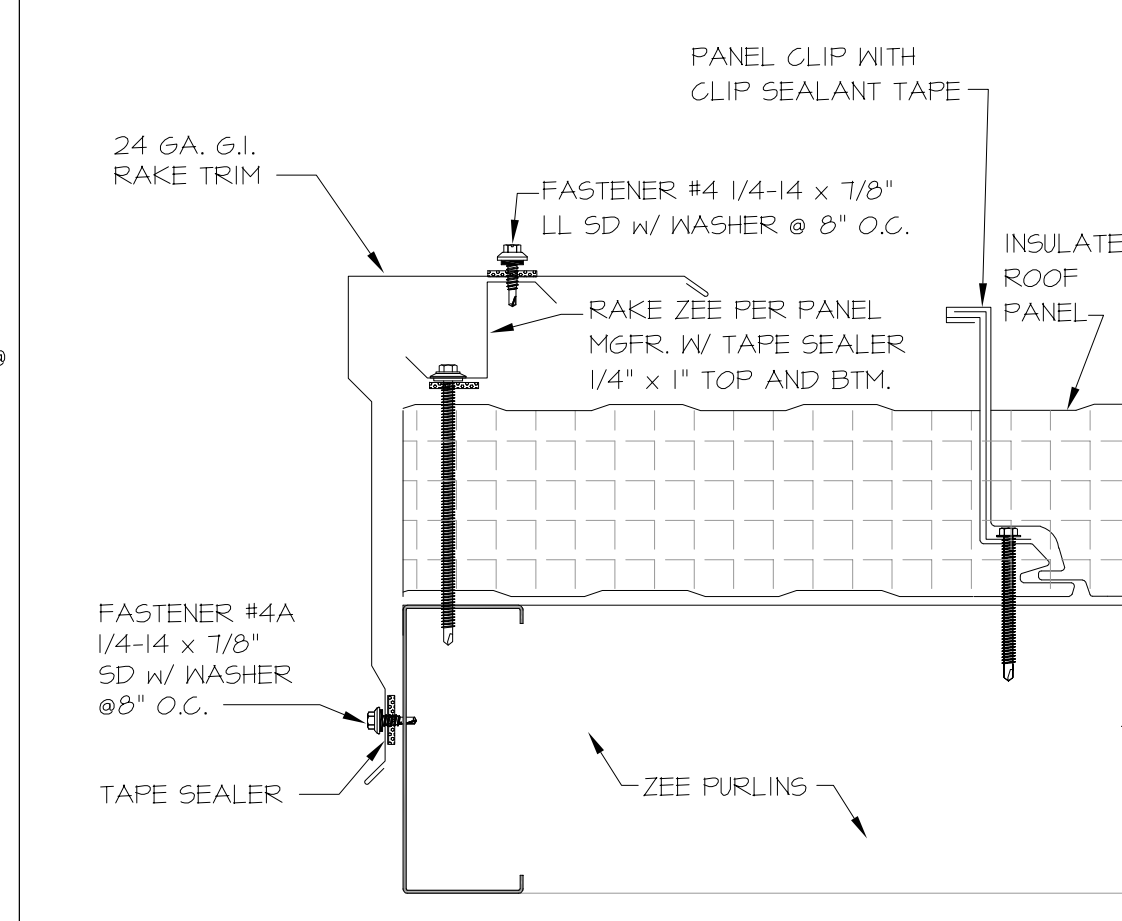
E13 LOW EAVE DETAIL



A7 WALL HEAD DETAIL



A10 WALL HEAD DETAIL



A13 RAKE DETAIL

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
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

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:
Details

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

Sheet No.
A3.3

Bid Addendum 2
5-21-2021

Plan Review Corrections
5-21-2021

STRUCTURAL NOTES

GENERAL NOTES

- 1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2019 edition of the California Building Code (CBC)...

GRADING

- 1. Prior to general site grading, existing vegetation, existing underground utilities, and any debris shall be stripped and disposed of outside the construction limits.
2. During site demolition and prior to actual site grading, a reasonable search shall be conducted to locate any undocumented fill soils, wells, trees, or existing utilities...

FOUNDATION

- 1. Unexpected soil conditions: Allowable values and foundation design are based upon soil conditions shown by test borings as presented in the project Geotechnical Investigation.
2. See project Geotechnical Investigation for compaction, fill, backfilling, and site preparation requirements and procedures.

REINFORCING BAR

- 1. All reinforcing bar shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 (f' = 60 ksi), unless noted otherwise.
2. Reinforcing bar shall not be welded, unless noted or detailed otherwise.

CONCRETE

- 1. Concrete shall have a minimum ultimate compressive strength (f'c) as outlined below. All concrete shall be regular weight (unless noted otherwise).

Table with 5 columns: Location, f'c at 28 Days, Max. w/c Ratio, Slump, Air Content. Row: Footing & Slab on Grade, 3,000 psi, 0.50, ,

SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW

- 1. Shop Drawings or Contractor Submittals should be provided for the fabrication (or proportioning) of the following (but not limited to) components or elements.
2. The Contractor shall be responsible for the production of Shop Drawings or Contractor Submittals, the distribution of documents to the Engineer of Record for review...

Table with 2 columns: Concrete description, Thickness. Rows: Concrete cast against and permanently exposed to earth or weather (3"), Concrete placed against forms, but exposed to earth or weather (2"), Slabs, wall & joists, not exposed to earth or weather (3/4"), Beams, girders & columns, not exposed to earth or weather (1 1/2")

[CONT.] CONCRETE

- 10. Reinforcing bars larger than #8 are not permitted unless noted otherwise.
11. Location of all construction joints, other than specified, shall be approved by Architect/Engineer of Record prior to pouring.
12. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.

- 22. Every opening exceeding 24" (in either direction) shall have a minimum of 2-#5 (U.N.O.) directly adjacent to all sides as well as top and bottom (unless a foundation).
23. Dowel all concrete walls and columns to supporting concrete with bars of the same size and spacing as vertical bars in wall and columns.

STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

Table with 2 columns: Gravity Design Data, Value. Rows: Roof Dead Load (By Others), * Allowance for PV system in Roof Dead Load (By Others), Exterior Wall Dead Load (By Others), Interior Wall Dead Load (By Others), etc.

STRUCTURAL OBSERVATION

- 1. Structural Observation is the visual observation of the structural system by a Registered Design Professional for general conformance to the approved construction documents at significant construction stages and at completion of the structural system.
2. All Structural Observation shall be provided in accordance with CBC Sections 1702 and 1704.6.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Rows: A.B. Anchor Bolt, ABV. Above, ACI. American Concrete Institute, ADD'L. Additional, etc.

SYMBOLS

Table with 2 columns: Symbol, Description. Rows: Concrete Footing, Cast-in-Place Drilled Concrete Pier, Reference Note, Detail Number Reference, etc.

SSG Structural Engineers, LLP logo and contact information. Includes address: 805.439.2110, 811 E. Capitol Way, Suite 240, Fresno, CA 93722.

Professional Engineer Seal for Tiana L. Perez, License No. C-38900, State of California. Includes office address: 2220 Tulare Street, Eighth Floor, Fresno, California 93721.

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.: S1.1

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 ACI 318: 26.6.4	
b. Inspect single-pass fillet welds, maximum 3/16"		✓		
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. ^{2d}				
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 ²		✓
b. Reinforcing steel: ²		
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 ^a		✓
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 ¹	✓	
6. Weld access holes in heavy shapes and built-up heavy shapes ³	✓	
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 ⁶		
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
855.439.2110
811 E. Capitol Way, Suite 240
San Luis Obispo, CA 93401
8650 N. Fresno Street, Suite 122
Fresno, CA 93722

THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT 2020.



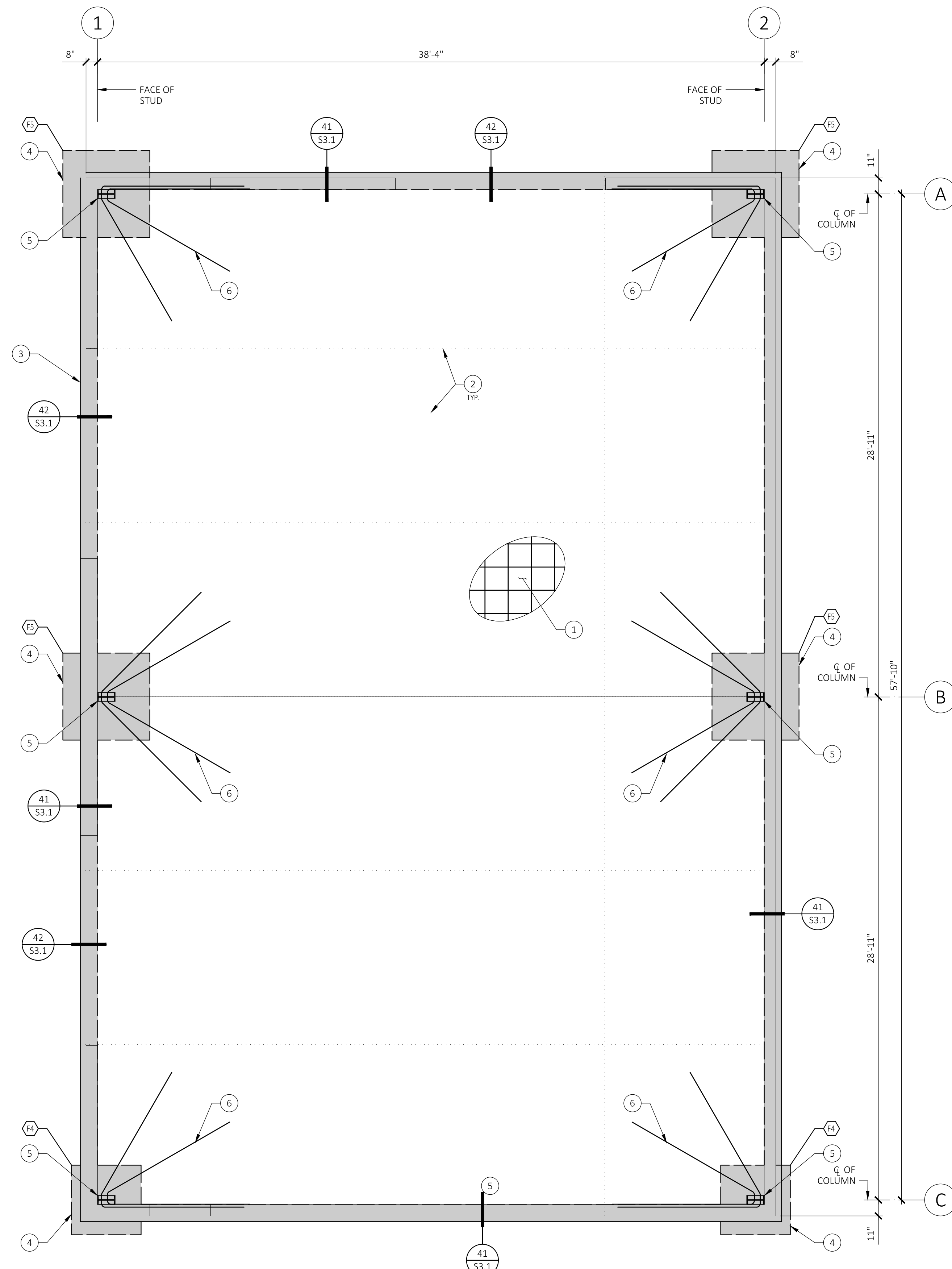
Project:
Fresno County
Environmental Compliance Center
Warehouse
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72
Issue Date: 07/21/2020
Project No. S19406C

Sheet Content:

STRUCTURAL NOTES

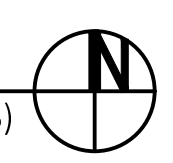
Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

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

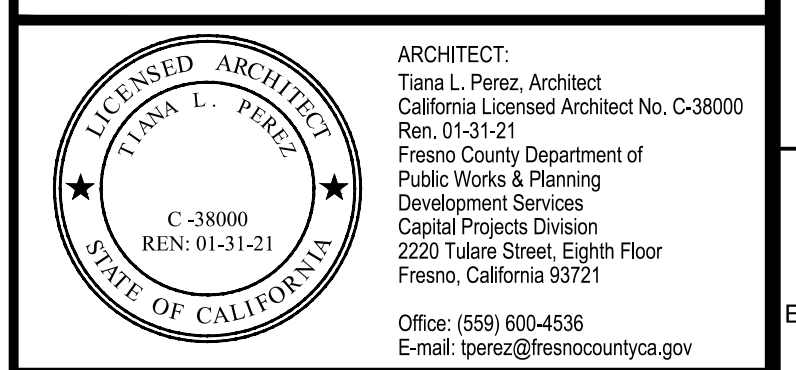
FOUNDATION REFERENCE NOTES:

- 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



SSG Structural Engineers, LLP
855.439.2110 | 811 E Capitol Way, Suite 240 | San Luis Obispo, CA 93401 | 805 N. Fresno Street, Suite 122 | Fresno, CA 93720

THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT 2020.



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

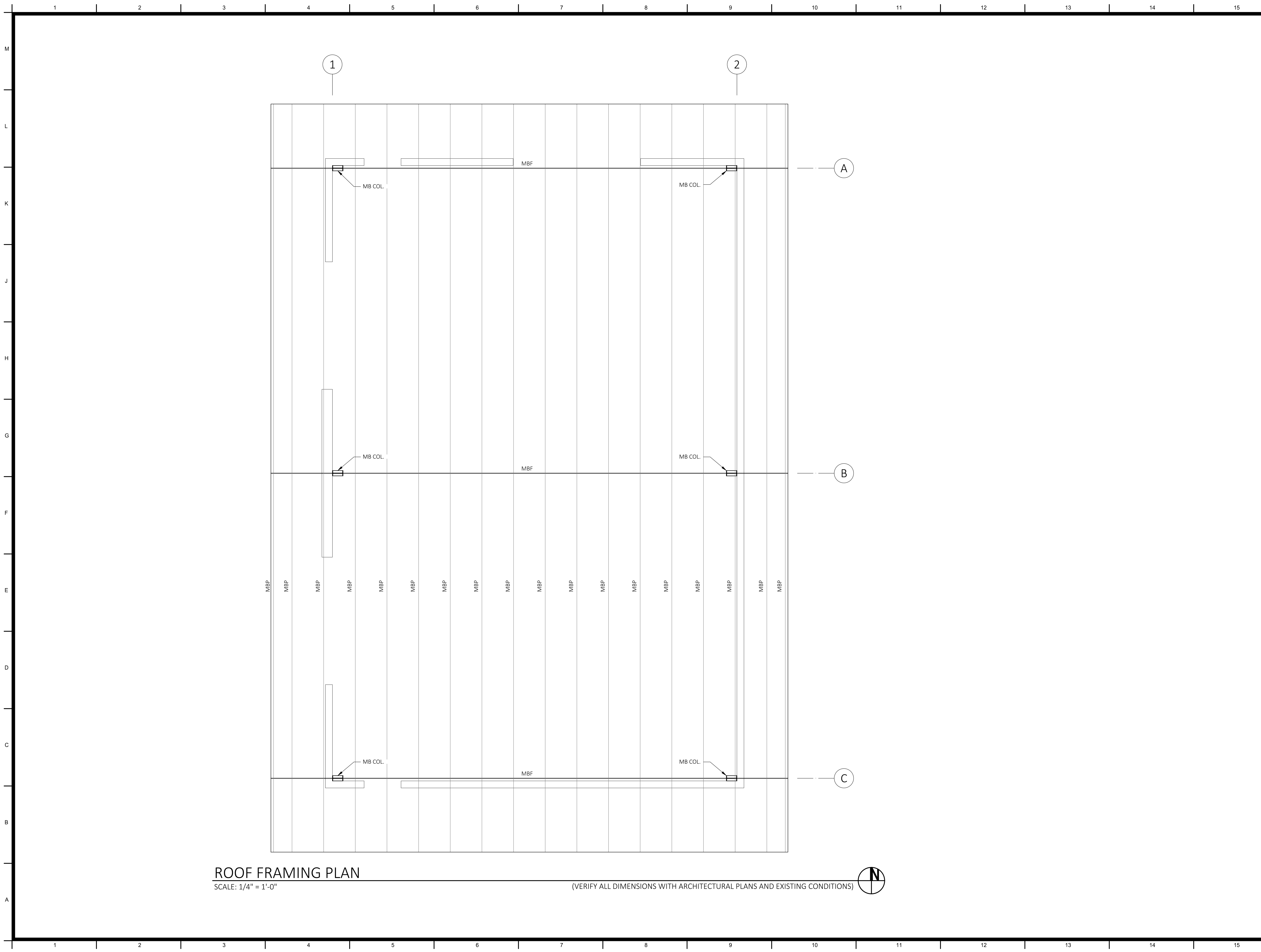


Sheet No.:

S2.1

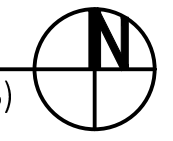
Footing Size and Reinforcing			Allowable Reactions (Service)		
Mark	Dimensions	Reinforcing	Vertical [k]	Uplift [k]	
				Exterior	Corner
F4	4'-0" x 4'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	130.3	-	6.4
F5	5'-0" x 5'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	203.7	11.1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

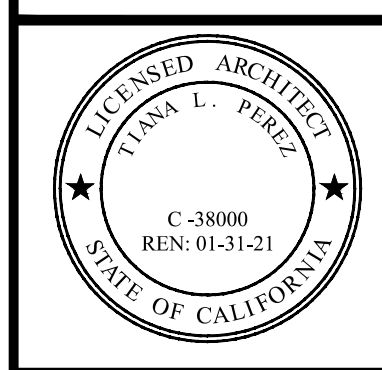


SSG Structural Engineers, LLP
805.439.2110 | ssg@ssg.com
811 E. Capitol Way, Suite 240 | 840 N. Fresno Street, Suite 122
San Luis Obispo, CA 93401 | Fresno, CA 93720

THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT 2020.



DATE SIGNED:
12/01/2020



ARCHITECT:
Tiana L. Perez, Architect
California Licensed Architect No. C-38000
Ren. 01-31-21
Fresno County Department of
Public Works & Planning
Development Services
Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

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



Sheet No.:

S2.2

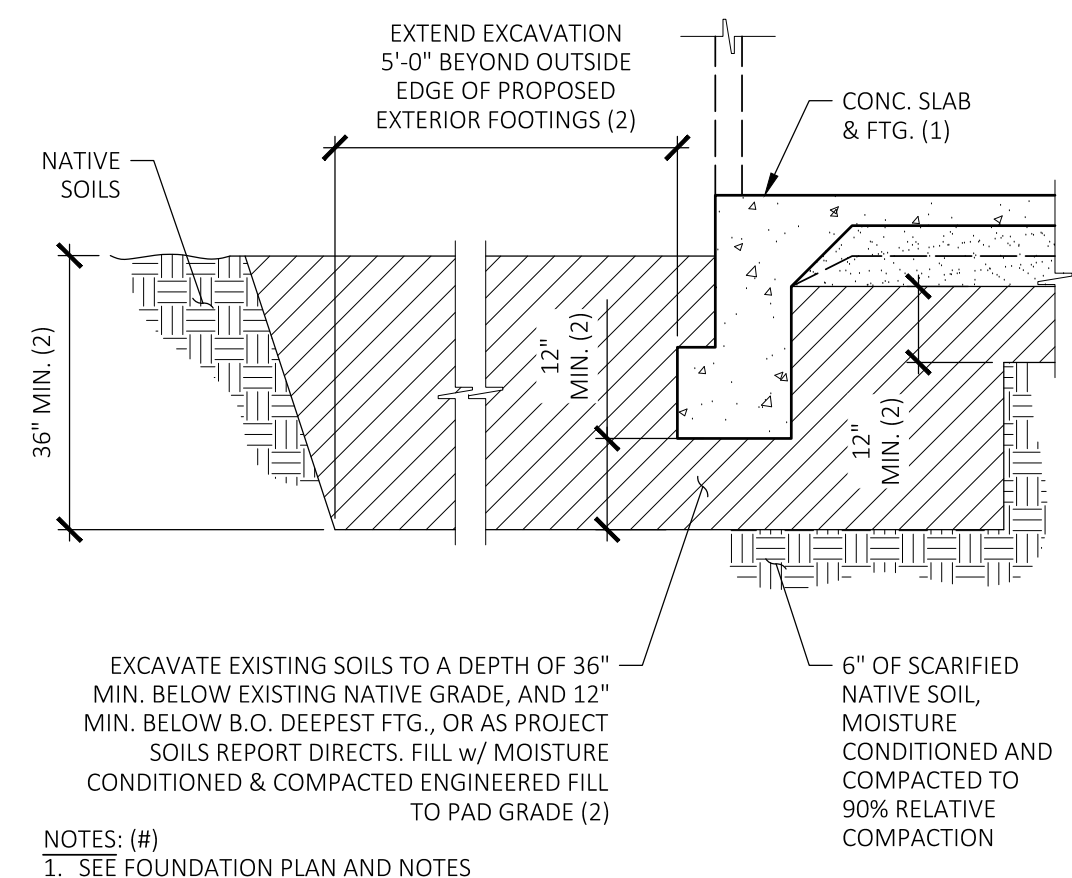


SSG Structural Engineers, LLP
 855.439.2110
 811 E. Capitol Way, Suite 240
 San Luis Obispo, CA 93401

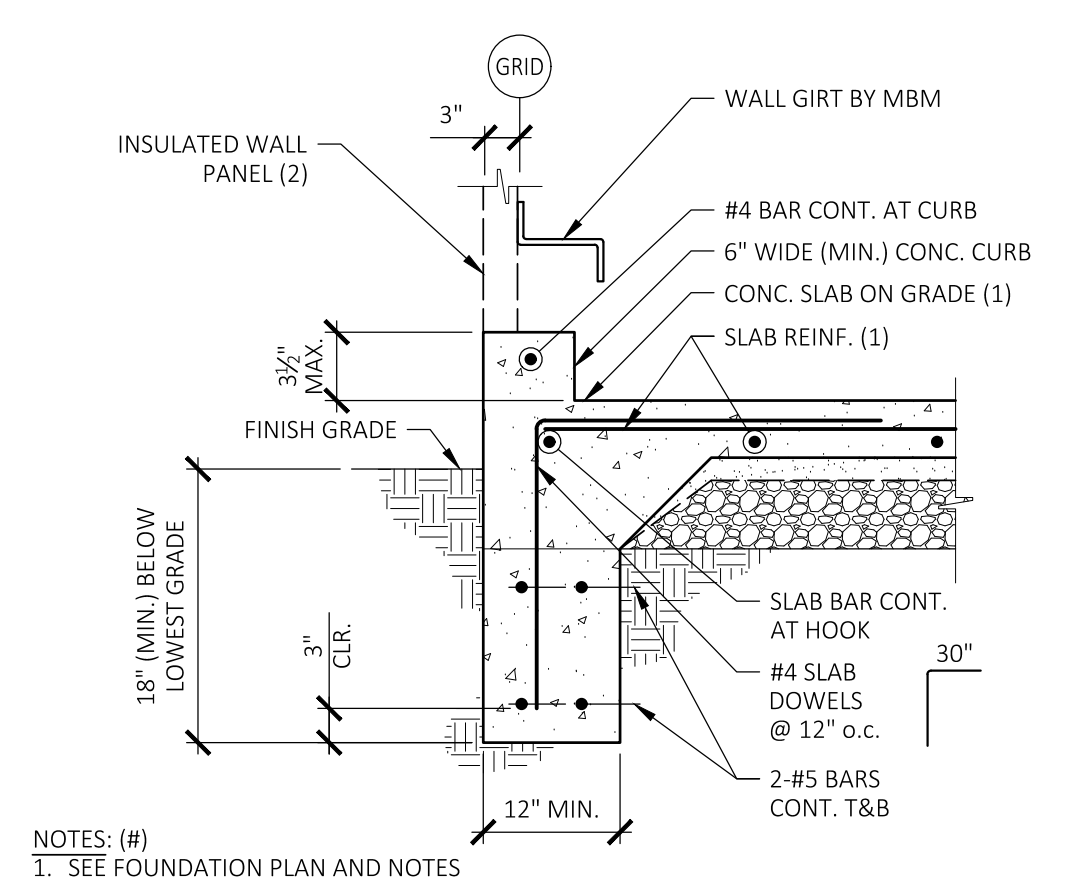
THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT 2020.



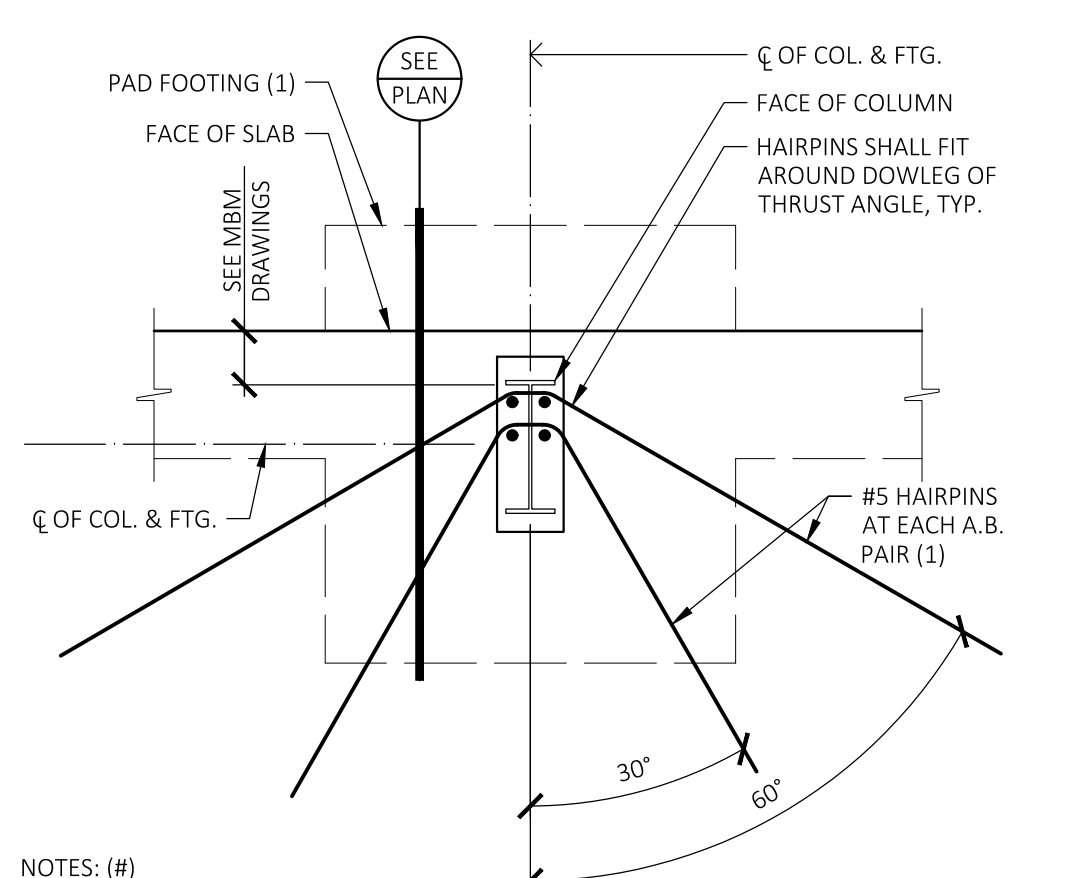
DATE SIGNED: 12/01/2020



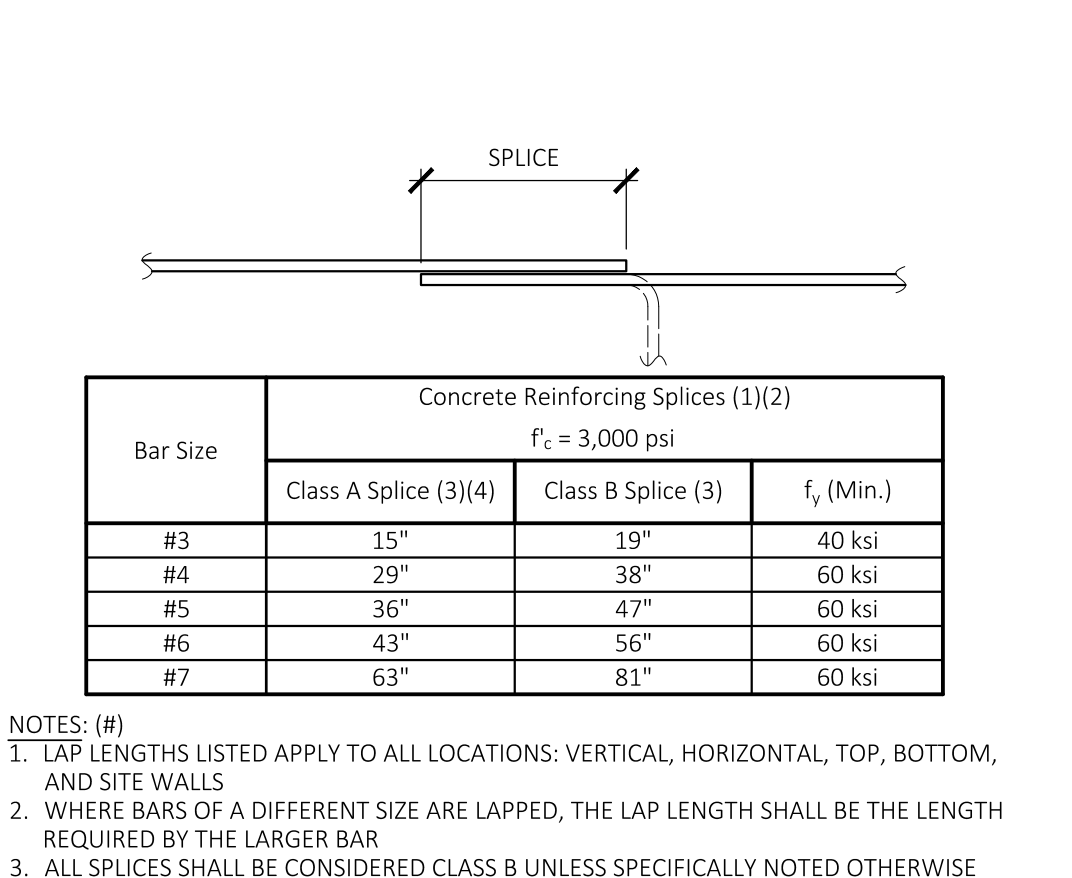
51 BLDG. PAD PREPARATION
 N.T.S.



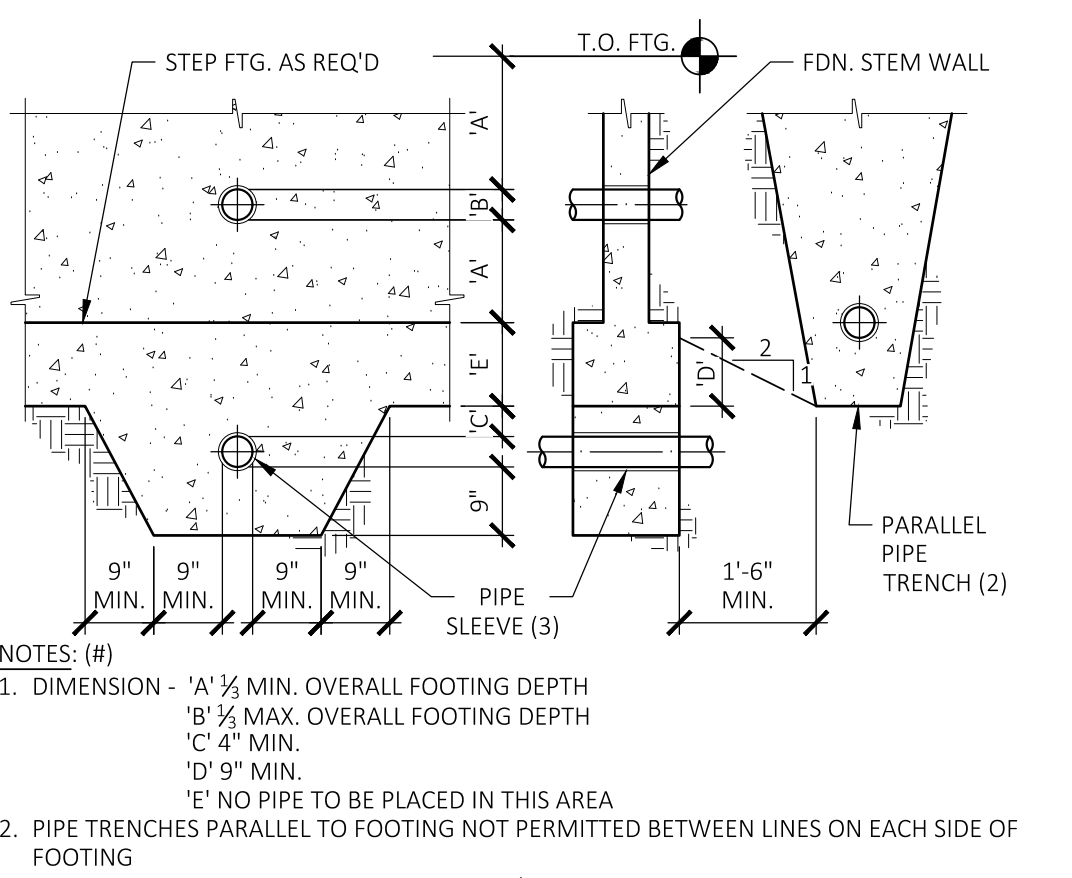
41 CONT. EXTERIOR FTG.
 N.T.S.



31 FLARED HAIRPIN
 N.T.S.



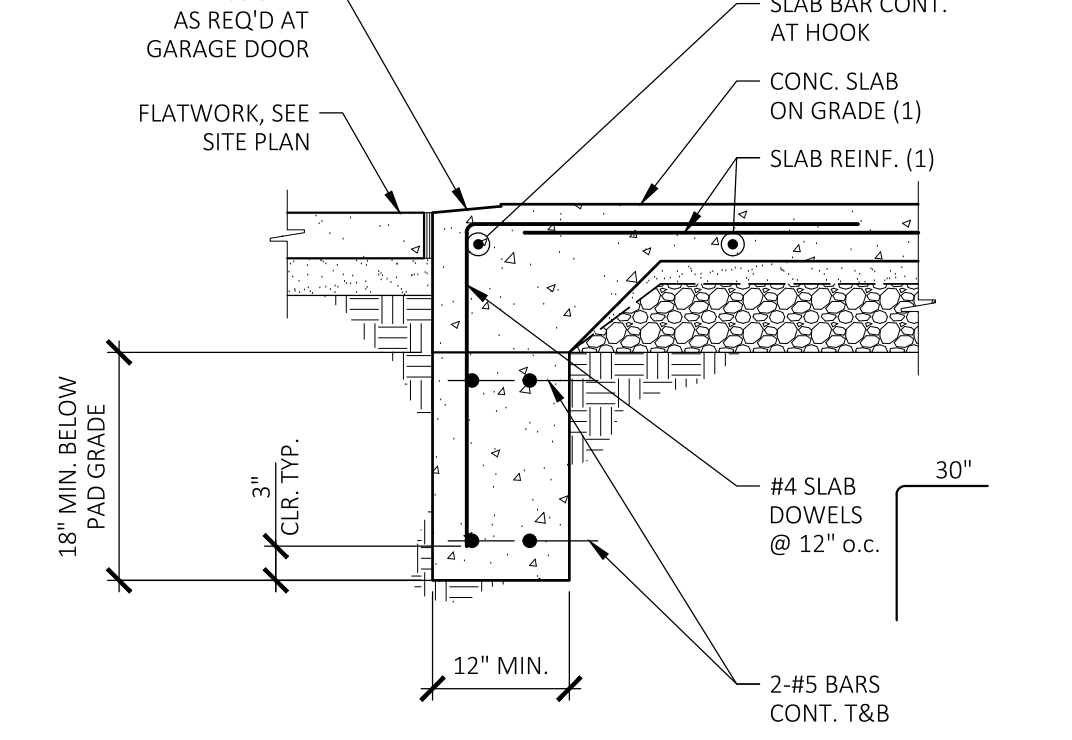
21 TYPICAL LAP SPLICES
 N.T.S.



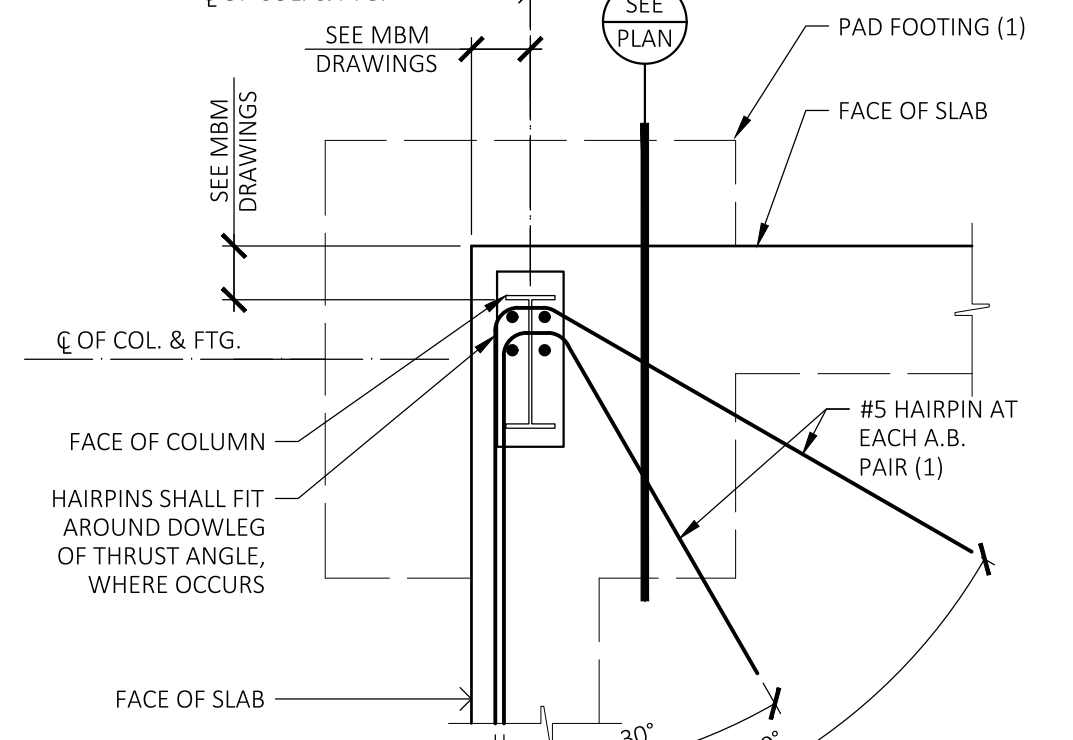
11 PIPE THROUGH FOOTING
 N.T.S.



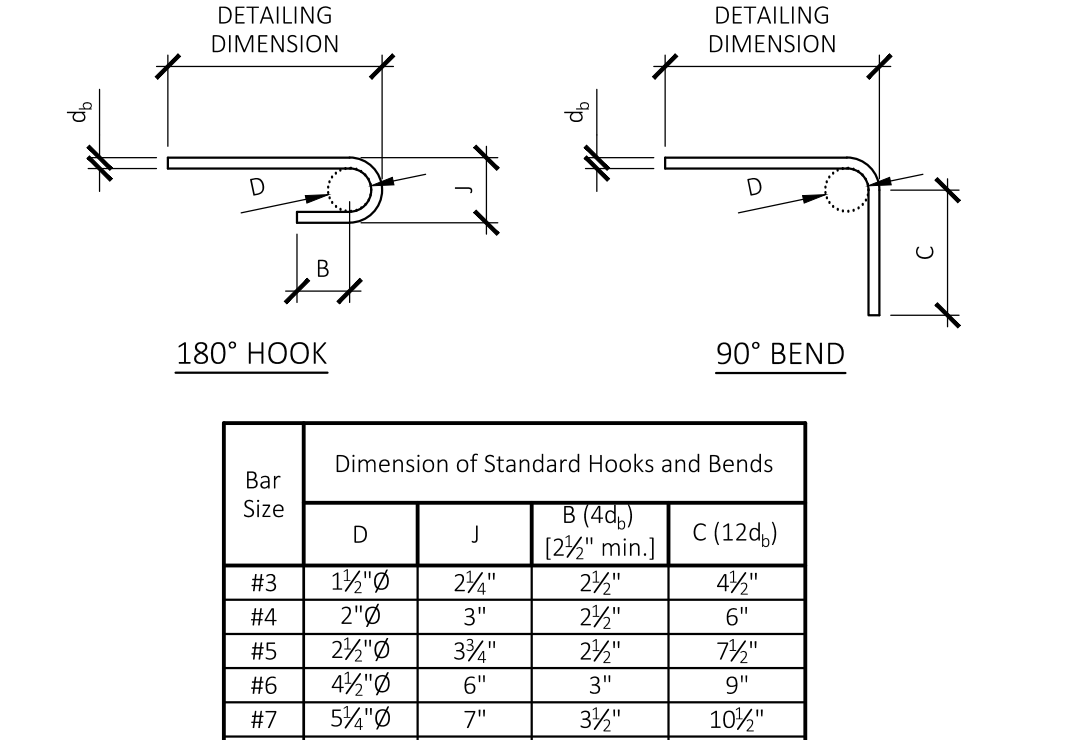
52 FTG. AT OPENING
 N.T.S.



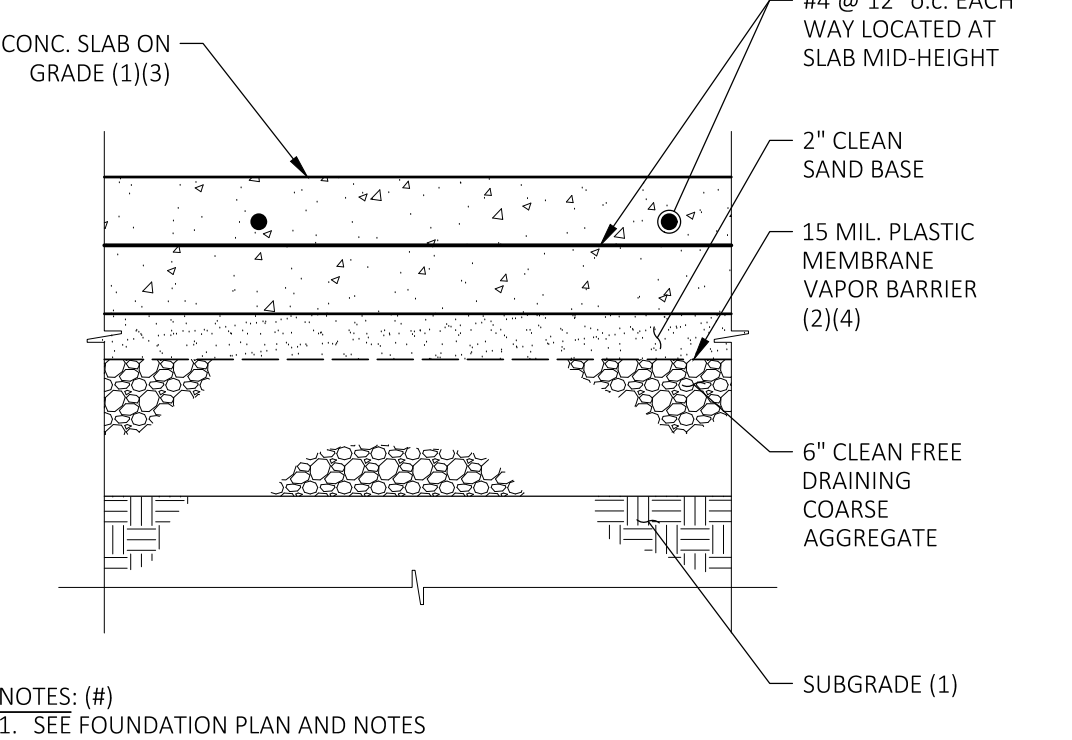
42 FLARED HAIRPIN AT CORNER
 N.T.S.



32 REBAR HOOKS & BENDS
 N.T.S.



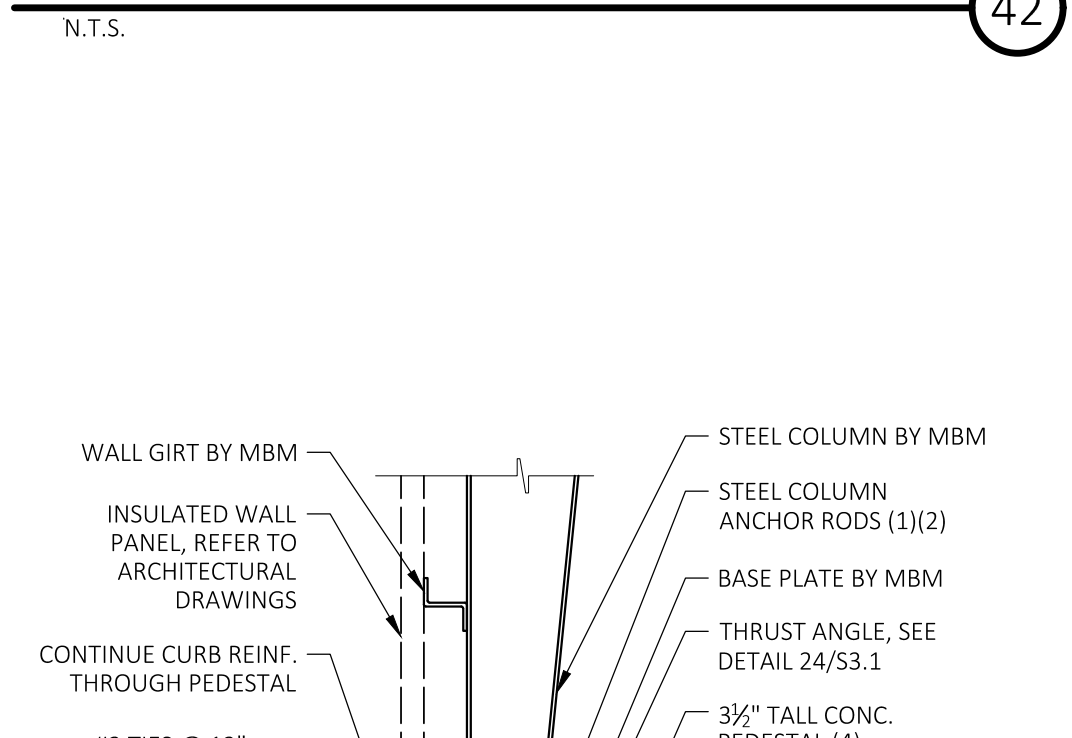
22 SLAB ON GRADE
 N.T.S.



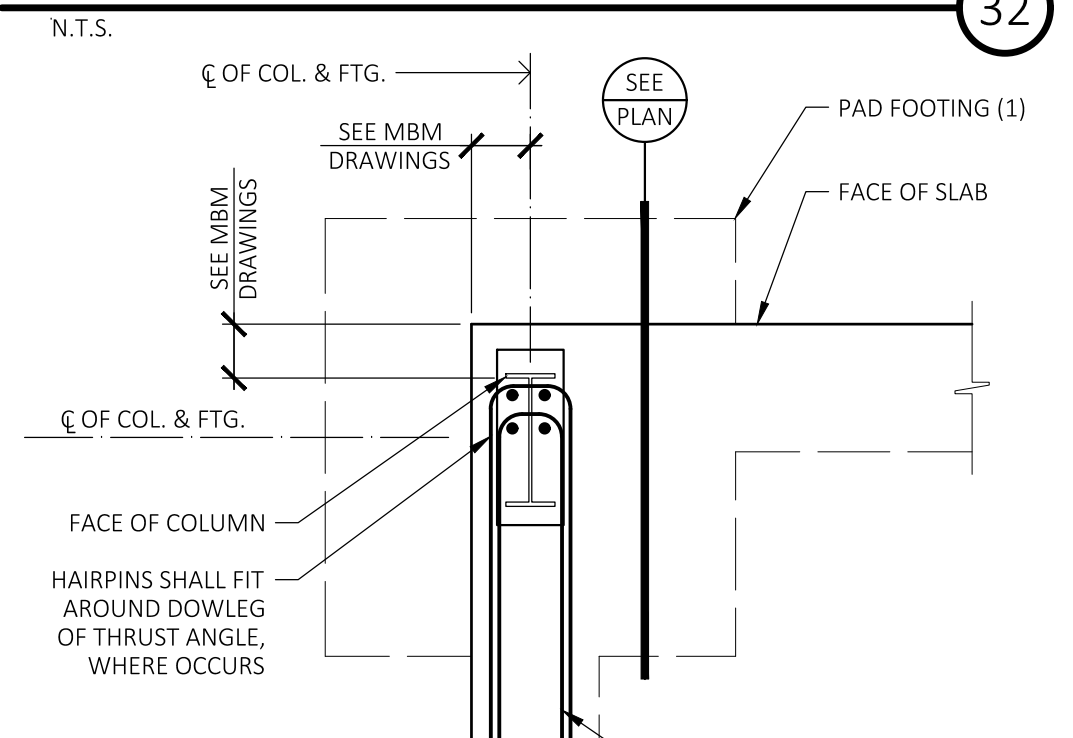
12 SLAB CONTROL JOINT
 N.T.S.



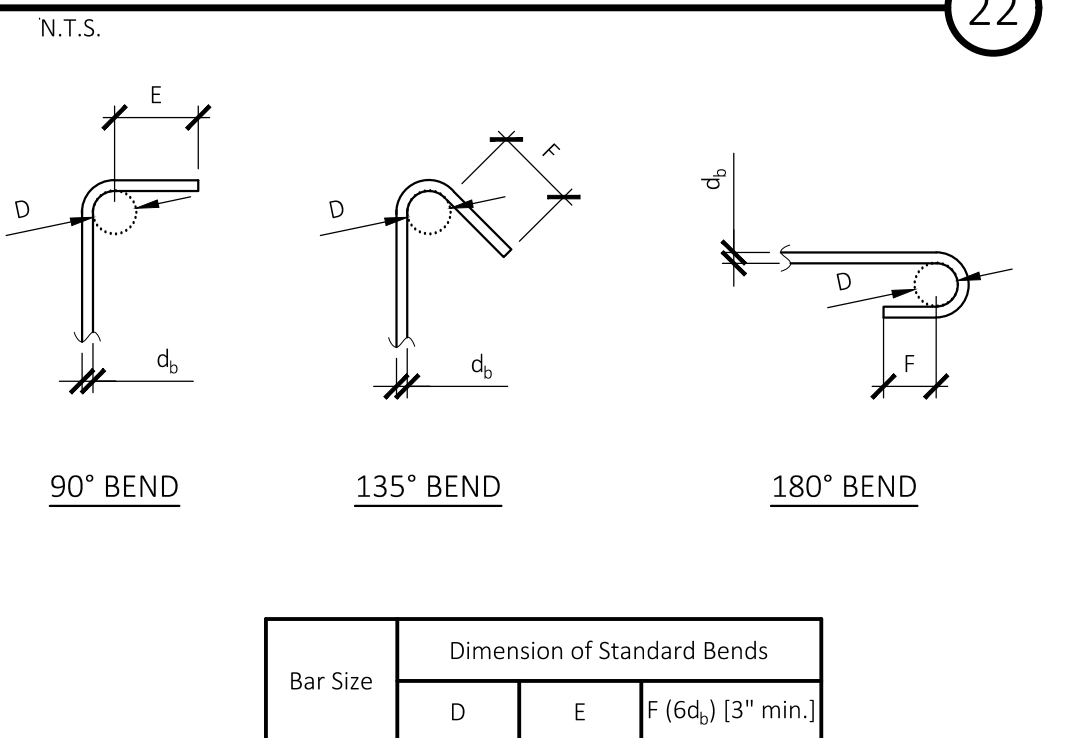
53 EXTERIOR PAD FOOTING
 N.T.S.



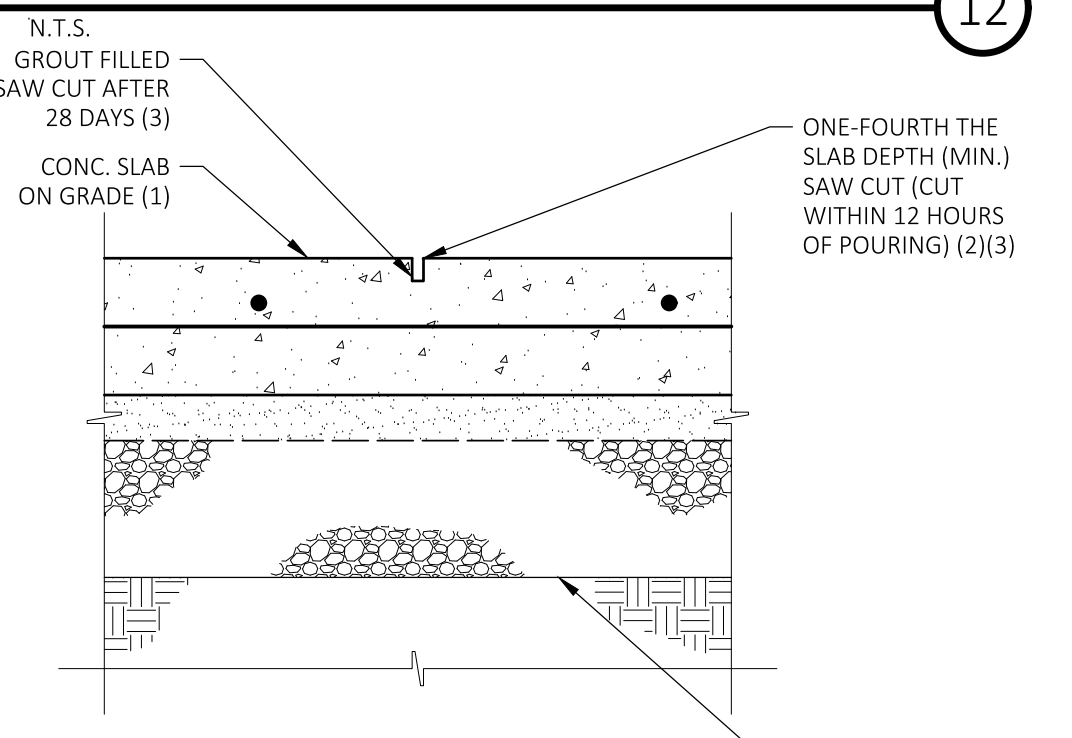
43 STRAIGHT HAIRPIN
 N.T.S.



33 TIE AND STIRRUP BENDS
 N.T.S.



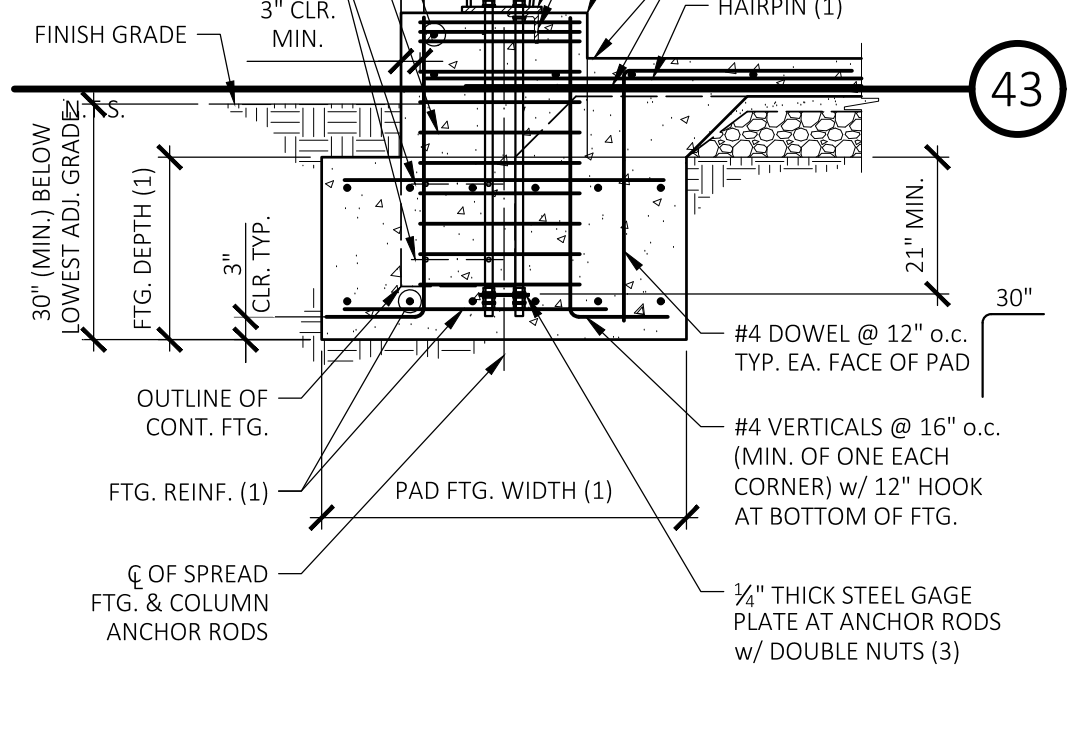
23 SLAB CONTROL JOINT
 N.T.S.



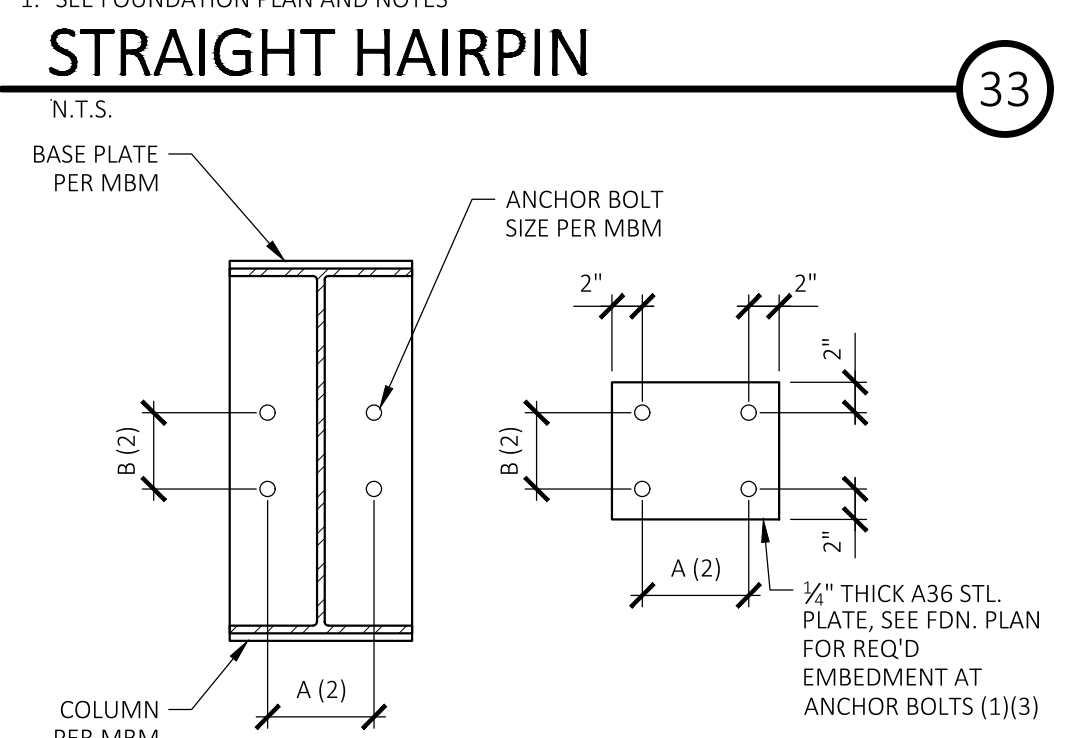
13 TYP. FOOTING CORNER
 N.T.S.



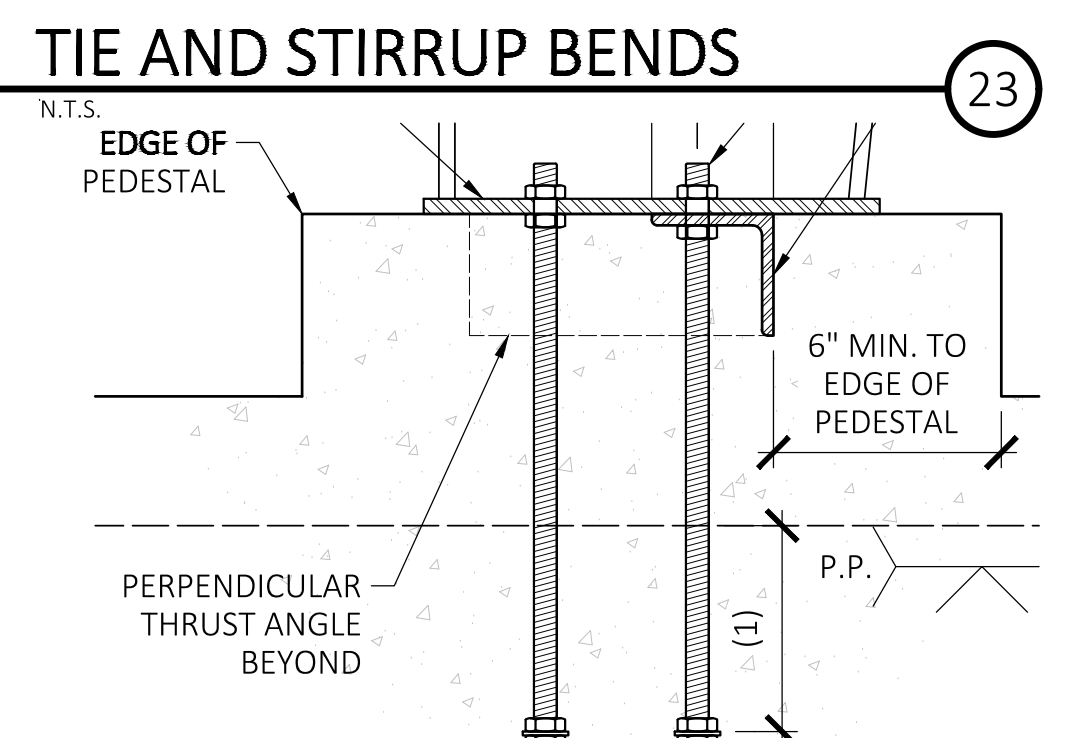
54 COLUMN A.B. GAGE PLATE
 N.T.S.



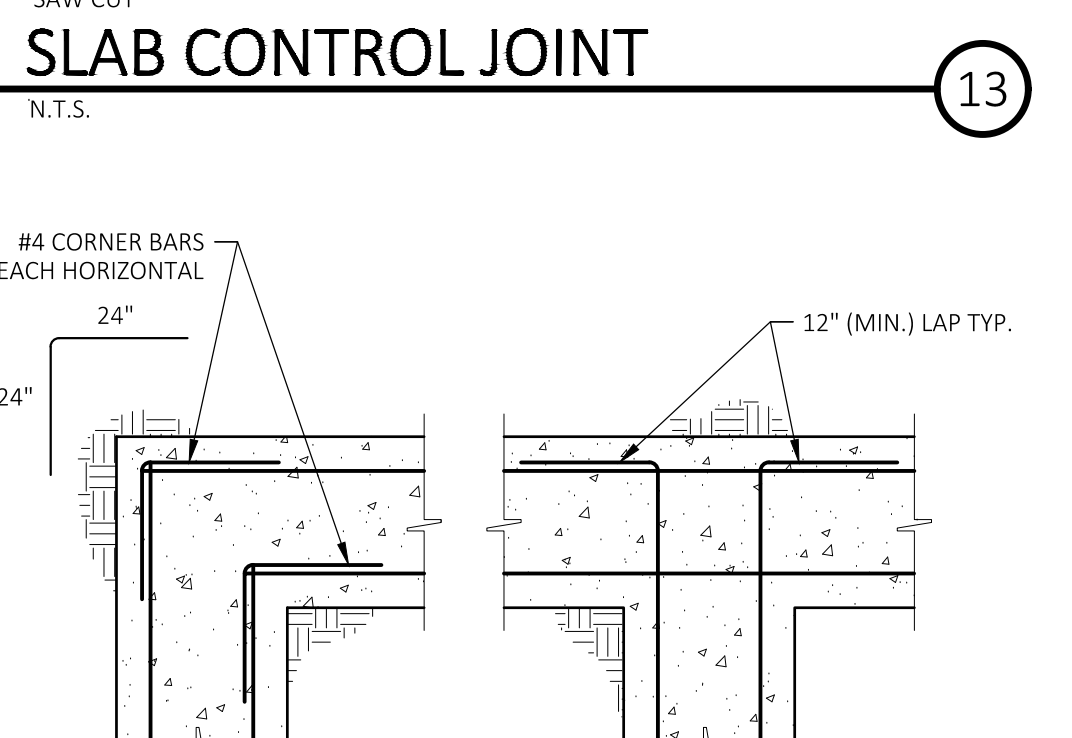
44 THRUST ANGLE
 N.T.S.



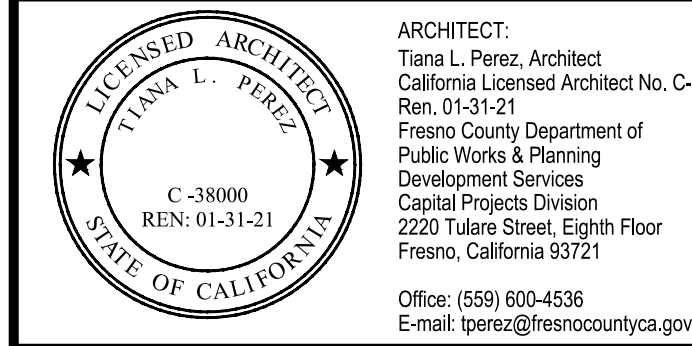
34 TYP. FOOTING CORNER
 N.T.S.



24 EXTERIOR PAD FOOTING
 N.T.S.



14 COLUMN A.B. GAGE PLATE
 N.T.S.



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

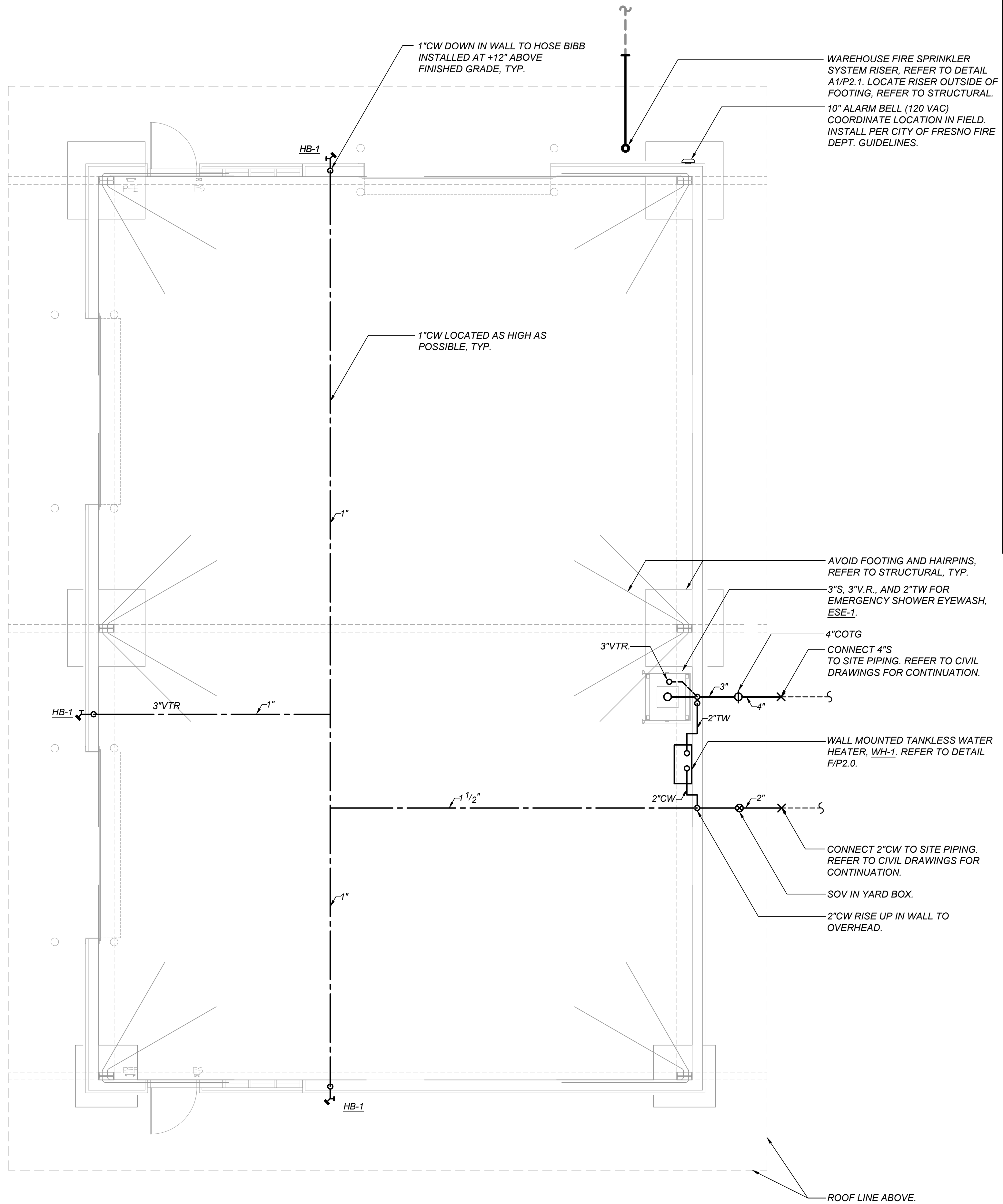
Sheet Content:
 WAREHOUSE
 03
 STRUCTURAL DETAILS

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

Sheet No.: **S3.1**

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

FOR PLAN CHECK ONLY
LAWRENCE
 ENGINEERING GROUP

7084 N. Maple Ave., Suite 101 Fresno, CA 93720
 (559) 431-0101 19400 FAX (559) 431-1342

ARCHITECT:
 Tania L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of
 Public Works & Planning
 Development Services and
 Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

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:

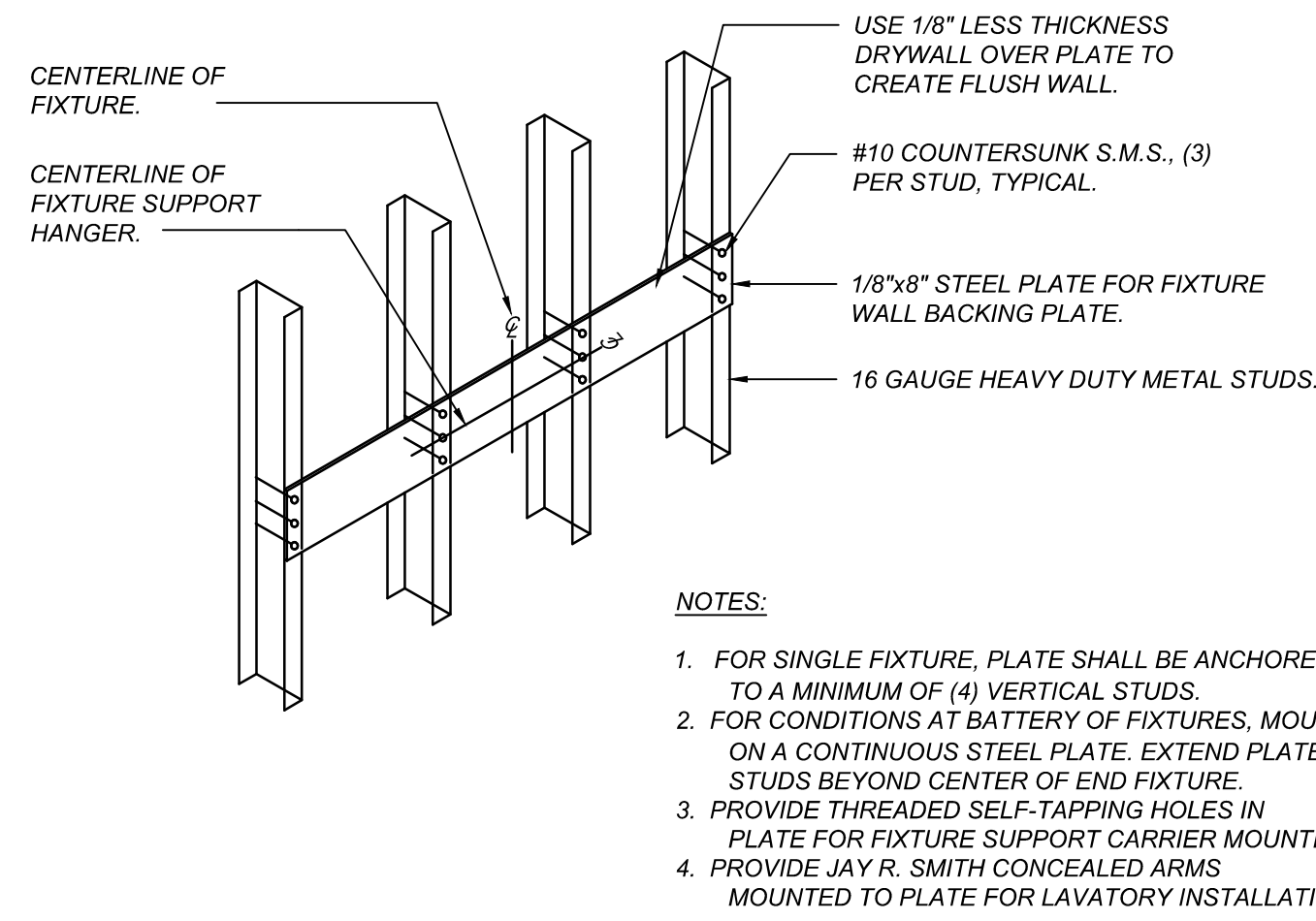
WAREHOUSE BUILDING
 PLUMBING PLAN



Sheet No.
P1.3

▲ Bid Addendum 2 5-21-2021
 ▲ Plan Review Corrections 5-21-2021

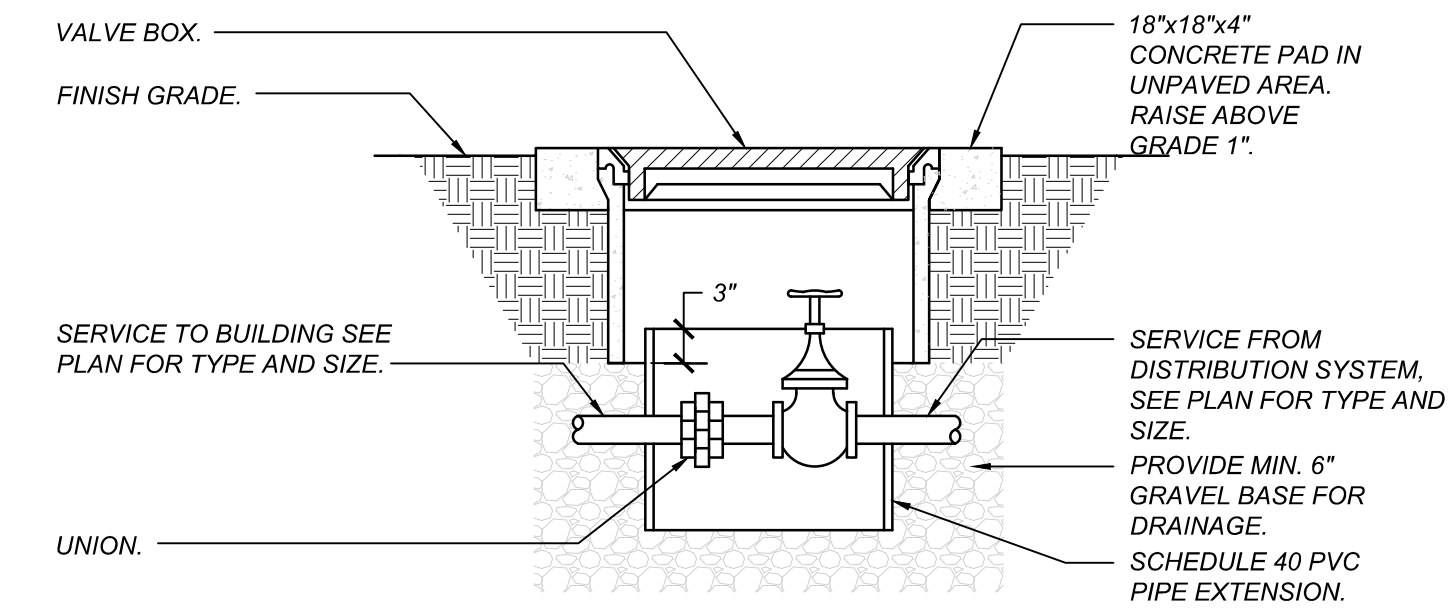
PLUMBING FIXTURE AND EQUIPMENT SCHEDULE						
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
SA-1	SHOCK ABSORBER	-	-	1"	-	JAY R. SMITH #5010, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
ESE-1	EMERGENCY SHOWER EYEWASH	3"	3"	1"	-	HAWS #6506WC BARRIER FREE COMBINATION SHOWER AND EYEWASH 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.

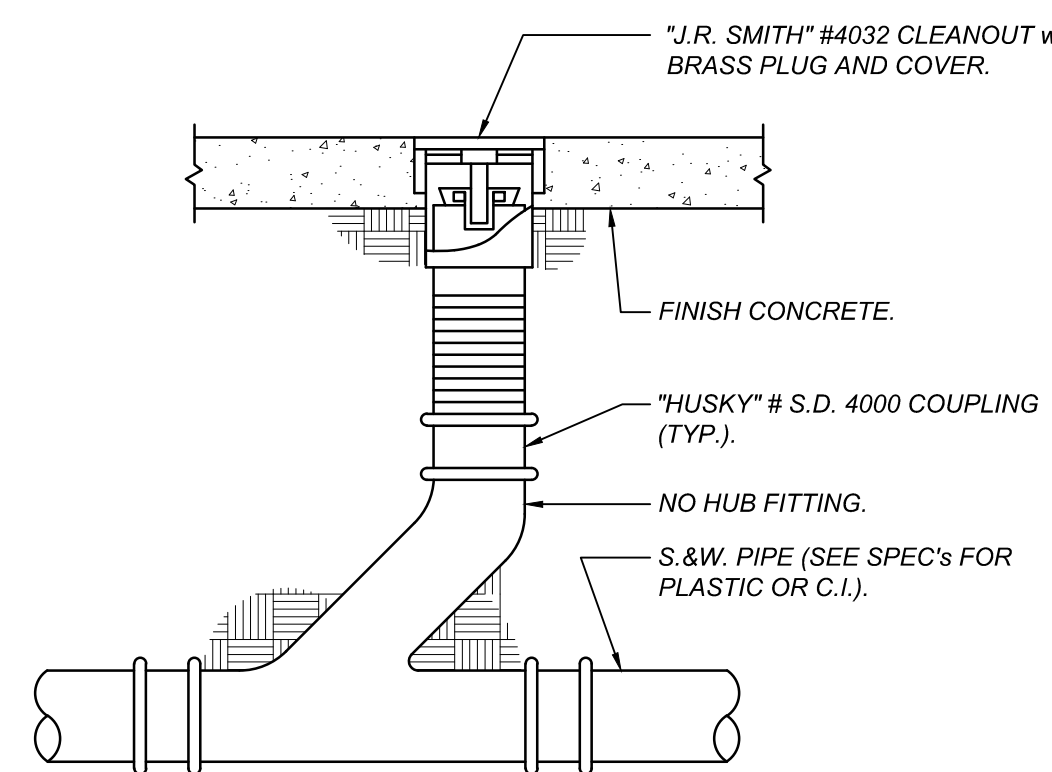
D
P-2.0



SHUT-OFF VALVE IN YARD BOX

SCALE: DIAGRAMATIC

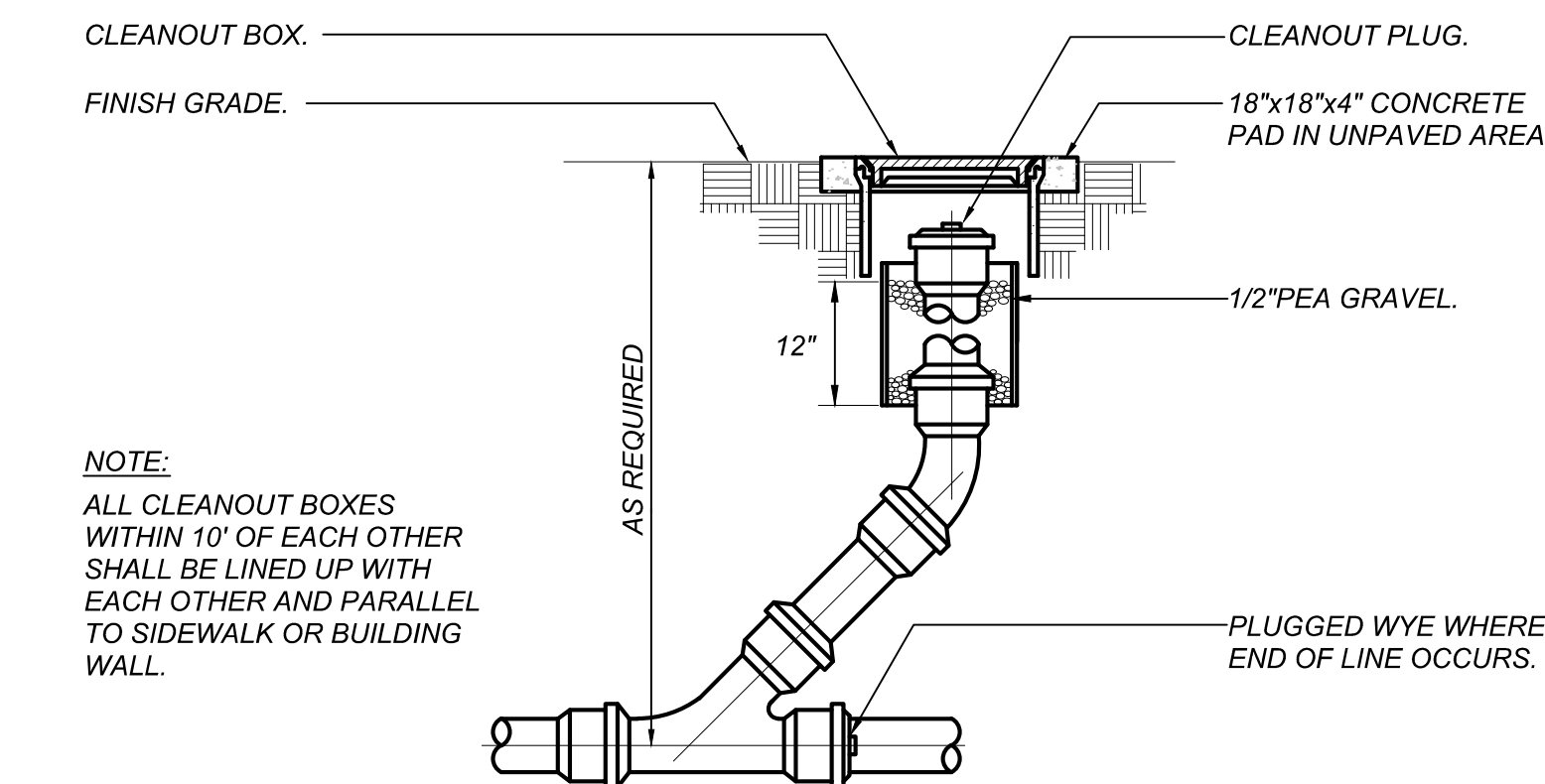
A
P-2.0



FLOOR CLEANOUT

SCALE: N.T.S.

E
P-2.0

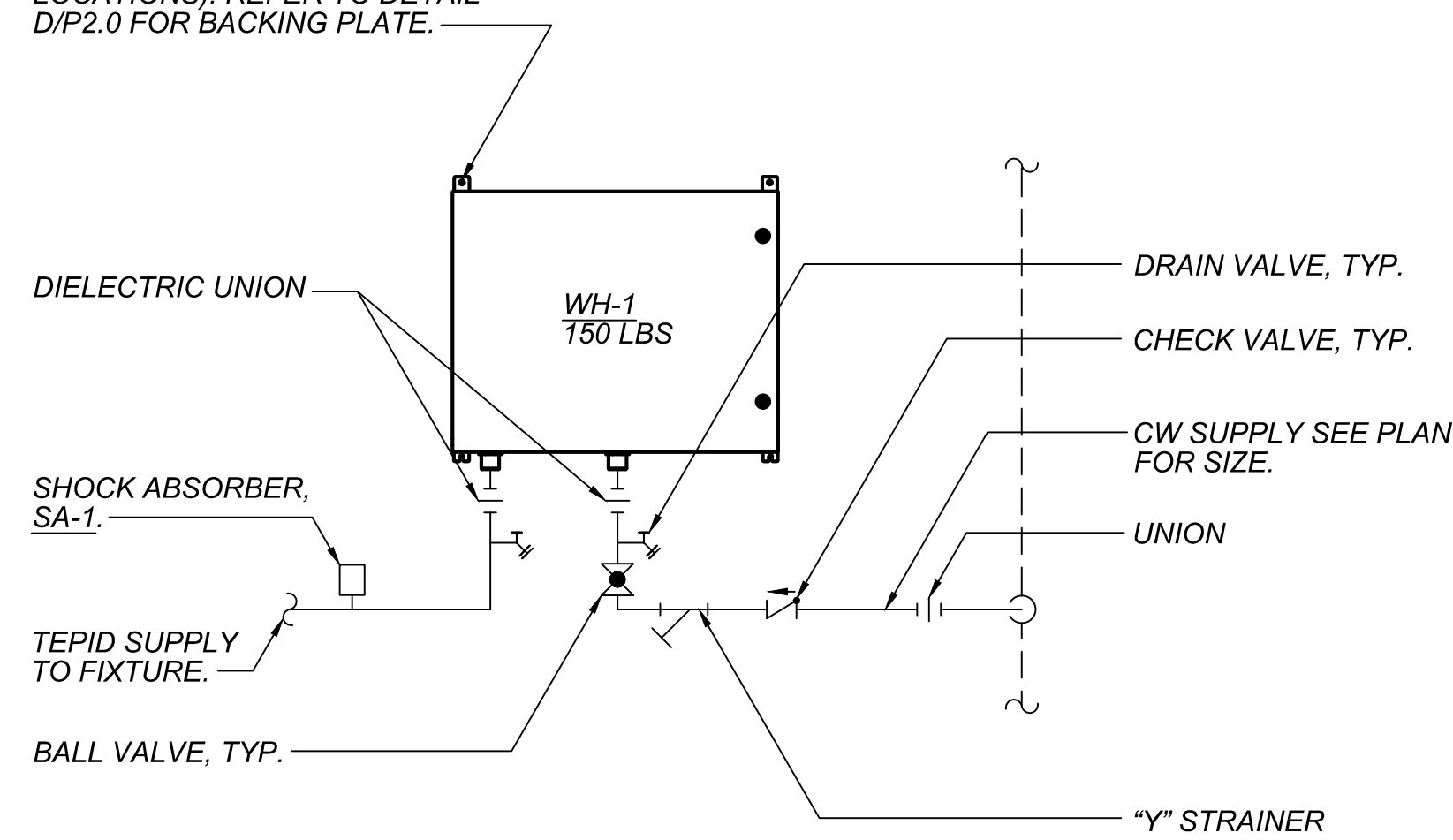


CLEANOUT TO GRADE DETAIL

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)

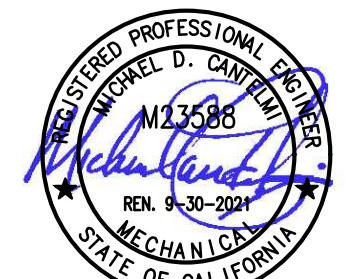
SCALE: NONE

F
P-2.0

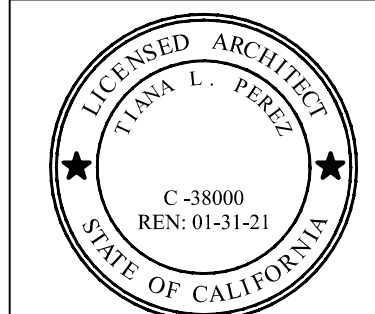
NOT USED

SCALE: NONE

C
P-2.0



FOR PLAN CHECK ONLY
LAWRENCE
ENGINEERING GROUP
7084 N. Maple Ave., Suite 101 Fresno, CA 93720
(559) 431-0101 19400 FAX (559) 431-1342



ARCHITECT:
Tanya L. Perez, Architect
California Licensed Architect No. C-38000
Ren. 01-31-21
Fresno County Department of
Public Works & Planning
Development Services and
Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

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

Fresno County Department of
Public Works and Planning
Capital Projects

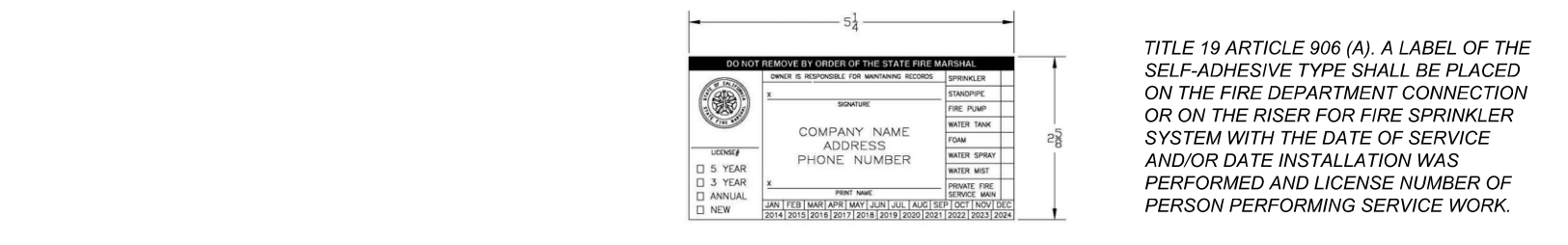
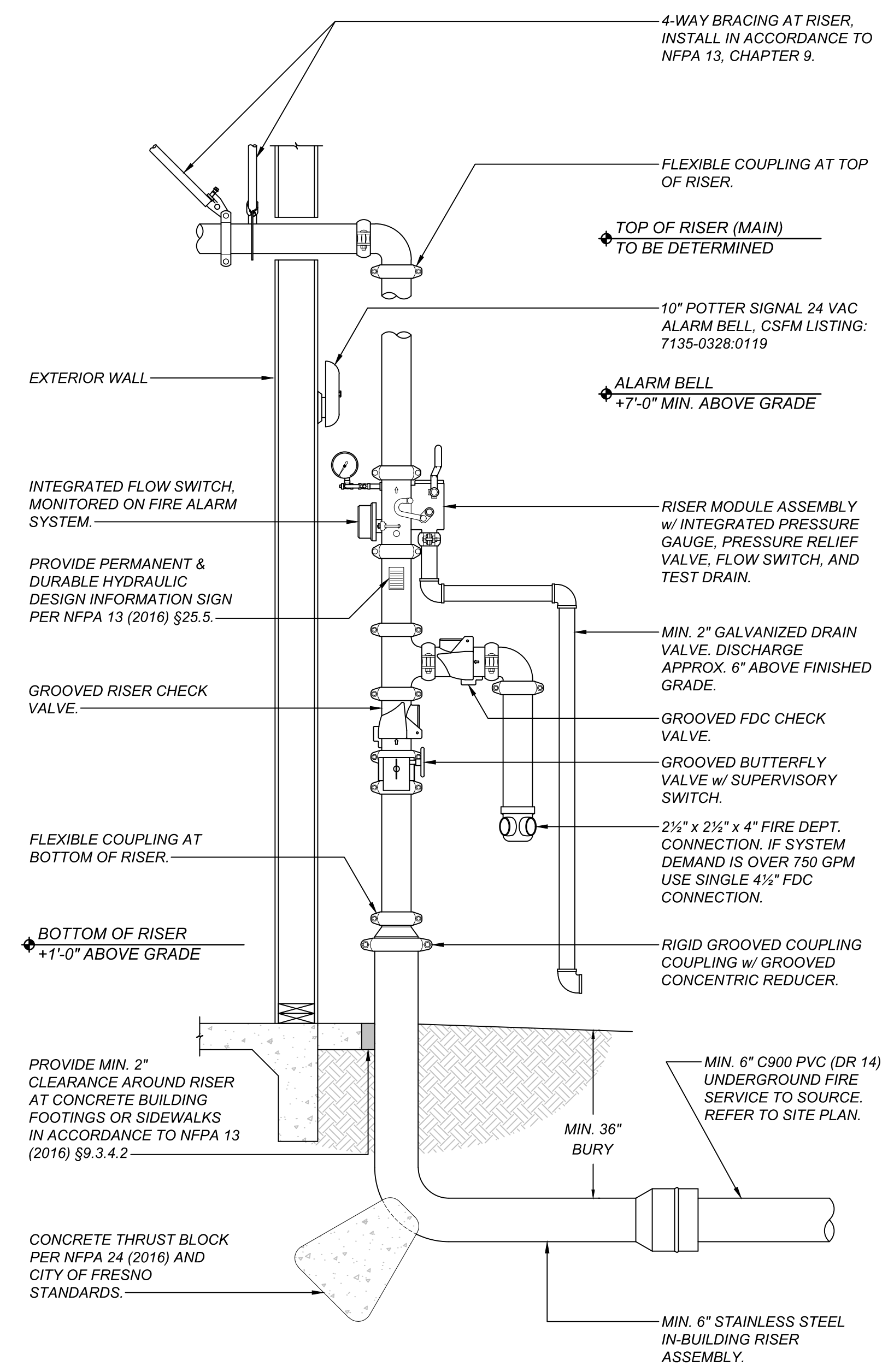
2220 Tulare Street, 8th Floor
Fresno, California 93721



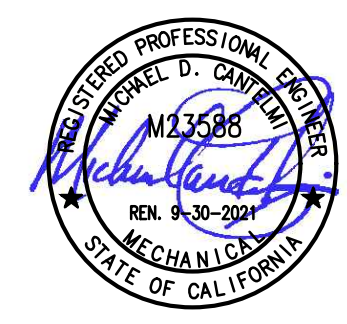
Sheet No.

P2.0

▲ Bid Addendum 2 5-21-2021
▲ Plan Review Corrections 5-21-2021



- 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.



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

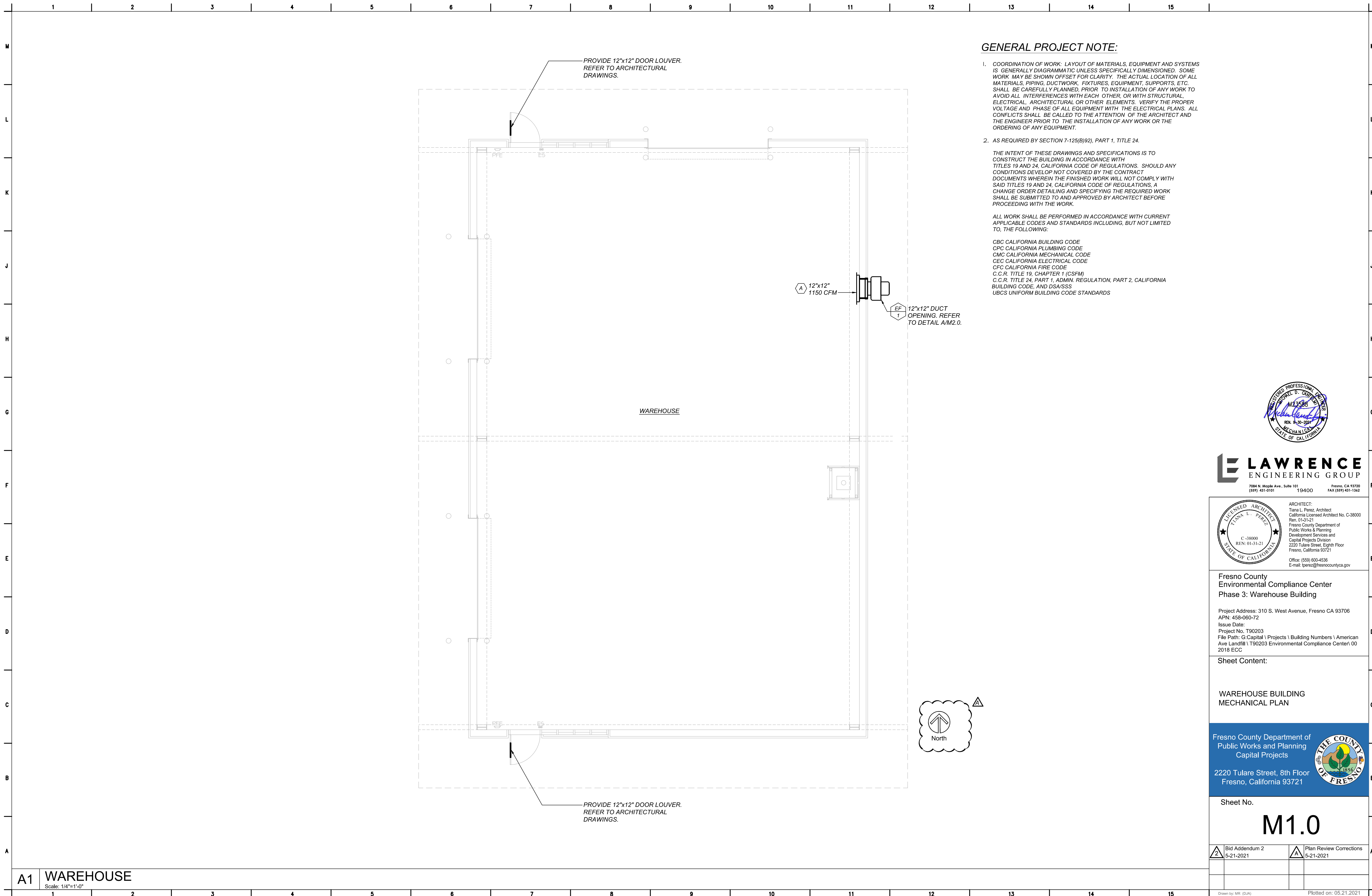
Sheet Content:

WAREHOUSE BUILDING
 RISER DETAIL

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

Sheet No.
P2.1

Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
-----------------------------	--------------------------------------



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



LAWRENCE ENGINEERING GROUP
 7084 N. Maple Ave., Suite 101 Fresno, CA 93720
 (559) 431-0101 19400 FAX (559) 431-1342

LICENSED ARCHITECT
 TIANA L. PEREZ
 STATE OF CALIFORNIA
 ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of
 Public Works & Planning
 Development Services and
 Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 E-mail: tperez@fresnocountyca.gov

**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

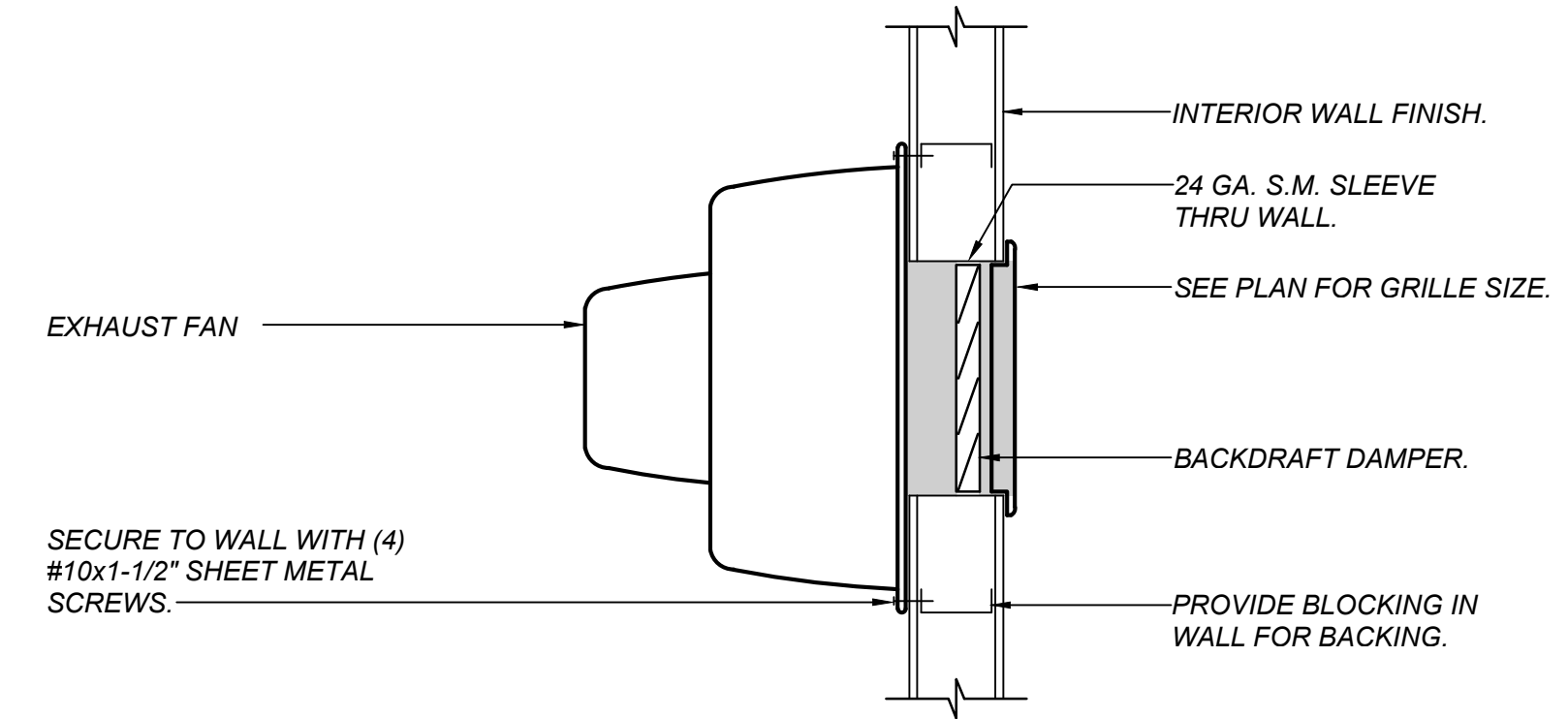
Sheet No.
M1.0

2	Bid Addendum 2 5-21-2021	A	Plan Review Corrections 5-21-2021
---	-----------------------------	---	--------------------------------------

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
CFM	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

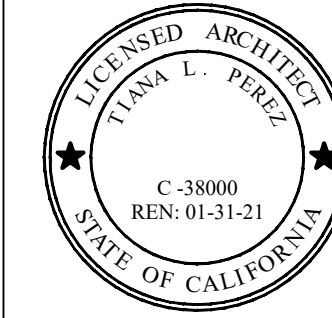
SCALE: NONE

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.



LAWRENCE ENGINEERING GROUP
7084 N. Maple Ave., Suite 101 Fresno, CA 93720
(559) 431-0101 19400 FAX (559) 431-1342



ARCHITECT:
Triana L. Perez, Architect
California Licensed Architect No. C-38000
Ren: 01-31-21
Fresno County Department of Public Works & Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4536
E-mail: tperez@fresnocountyca.gov

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
MECHANICAL
SCHEDULES
AND DETAILS



Sheet No.

M2.0

	Bid Addendum 2 5-21-2021		Plan Review Corrections 5-21-2021
--	-----------------------------	--	--------------------------------------

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 B'-O", 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.
- SUBMIT TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISIONS FOR THE INSTALLATION OR MODIFICATION OF THE FIRE ALARM SYSTEM. SEE FPD POLICY 401.02.
- PROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 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
	POLE WITH SINGLE AREA LUMINAIRE	
	POLE WITH DOUBLE AREA LUMINAIRES	
	POLE WITH POST TOP AREA LUMINAIRE	
	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE
	SURFACE CEILING LIGHT	
	RECESSED DOWN LIGHT	
	WALL LIGHT	
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT TO BATT PACKS
	EXIT SIGN, CEILING (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS
	EXIT SIGN, WALL (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS
	DEDICATED EMERGENCY LIGHT	PROVIDE UNSWITCHED HOT TO BATT PACKS
	INVERTER	
	SWITCH AT +48" AFF TO TOP OF BOX	20A 2TTV QUIET TOGGLE
	3-WAY SWITCH AT +48" AFF TO TOP OF BOX	20A 2TTV QUIET TOGGLE
	DIMMER SWITCH, TO BE COMPATIBLE WITH CONTROLLED FIXTURES, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 16 BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 16 BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE
	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W SEPARATE EXHAUST FAN RELAY AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 16 BOX PER SWITCH W/ RING, 1" C. TO ACCESSIBLE ATTIC SPACE
	DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	DIGITAL DIMMER SWITCH, WIRELESS, LINE VOLTAGE AT +48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, ROUGH IN WITH 16 BOX & RING, 120-277V POWERED
	DIGITAL DIMMER SWITCH W INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING CONTROLLER AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT	nLIGHT SYSTEM #4CM PDT 10
	DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	nLIGHT SYSTEM, ROUGH IN WITH 16 BOX & RING, 1" C. TO ACCESSIBLE ATTIC
	WIRELESS DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR, DUAL-TECHNOLOGY CEILING MOUNT	PROVIDE XPOINT SBOR SENSOR INTERFACE
	DIGITAL GATEWAY	nLIGHT SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.
	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (1) BRIDGE FOR EACH (6) nLIGHT ZONES. CONNECT BRIDGE POWER SUPPLY TO LOCAL LIGHTING CIRCUIT.
	DIGITAL XPOINT WIRELESS BRIDGE	INTERFACE WITH nLIGHT SYSTEM GATEWAY
	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
	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	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	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.
	TERMINAL CABINET	
	DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 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.
	(2) WAP DATA JACKS (RJ-45 CAT6) MOUNTED IN ATTIC SPACE	4-11/16 SQ. BOX, 16 RING, MODULAR PLATE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END.
	(2) WAP DATA JACKS (RJ-45 CAT6) AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 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.
	WALL MOUNT VOIP OUTLET (RJ-45 CAT6) AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 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.
	WALL MOUNT DATA/COMM OUTLET AT +48" AFF, U.O.N.	4-11/16 SQ. BOX, 16 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.
	"MAIN DISTRIBUTION FRAME"	
	"INTERMEDIATE DISTRIBUTION FRAME"	

SYMBOL	DESCRIPTION	NOTES
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	POWER PANEL	REFER TO PANEL SCHEDULE
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	DISCONNECT SWITCH, FUSIBLE	REFER TO MECH. PLANS & SPECS.
	MOTOR CONTROLLER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
	MOTOR	REFER TO MECH. PLANS & SPECS.
	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	SINGLE CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	DUPLEX CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	QUADPLEX CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
	DUPLEX GFI CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT8949-W
	QUADPLEX GFI CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT8949-W
	WEATHERPROOF, GFI OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE TYPE COVER	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #XT8949-W
	DUPLEX CONVENIENCE OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TR20-SIM CODE COMPLIANT MARKING REQUIRED
	SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TR20-W AND LEVITON #TR20-S2M CODE COMPLIANT MARKING REQUIRED
	HEAVY DUTY POWER PEDESTAL	SEE DETAIL
	SPECIAL EQUIPMENT OUTLET AT +48" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQ'TS W/ EQUIPMENT VENDOR
	26 FLOOR BOX WITH POWER FEED COVER	MAKE CONNECTION TO MODULAR FURNITURE SYSTEM WITH #6 GREEN GROUND WIRE TO G.E.G.
	12" CU GROUND BUS BAR	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.
	FIRE/SMOKE DAMPER	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER WALL MOUNTED, +120" U.O.N.	RUN 1" C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	W/ OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, +120" U.O.N.	INTERIOR: 16 J-BOX, 16 RING, MODULAR PLATE, 3/4" C. TO ACCESSIBLE ATTIC SPACE. EXTERIOR: 16 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.
	SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED. VERIFY HEIGHTS AT EACH LOCATION. C-CEILING MOUNTED.	
	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.
	A/V INPUT HDMI/6A/3.5MM AUDIO/USB JACK WALL PLATE AT +48" AFF	26 BOX, 16 RING, (2) 1 1/4" C. TO ATTIC SPACE. INSTALL CABLES FROM STATION TO TV.
	DEVICES TO BE REMOVED	
	EXISTING CONDUIT/WIRINGS TO BE DEMOLISHED	
	EXISTING DEVICES	
	EXISTING CONDUIT/WIRINGS	
	WIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN.
	WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.
	LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
	CONDUIT RISER	3/4" CONDUIT MIN.
	FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
	CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
	CROSS HATCHES INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO. WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 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")	3/4" CONDUIT MIN.
	"EXISTING"	
	"UNLESS OTHERWISE NOTED"	
	"WEATHERPROOF" / NEMA 3R	
	"GROUND FAULT INTERRUPTER"	

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

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

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

ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of
 Public Works & Planning
 Development Services and
 Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 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 \ American
 Ave Landfill \ T90203 Environmental Compliance Center\ 00
 2018 ECC

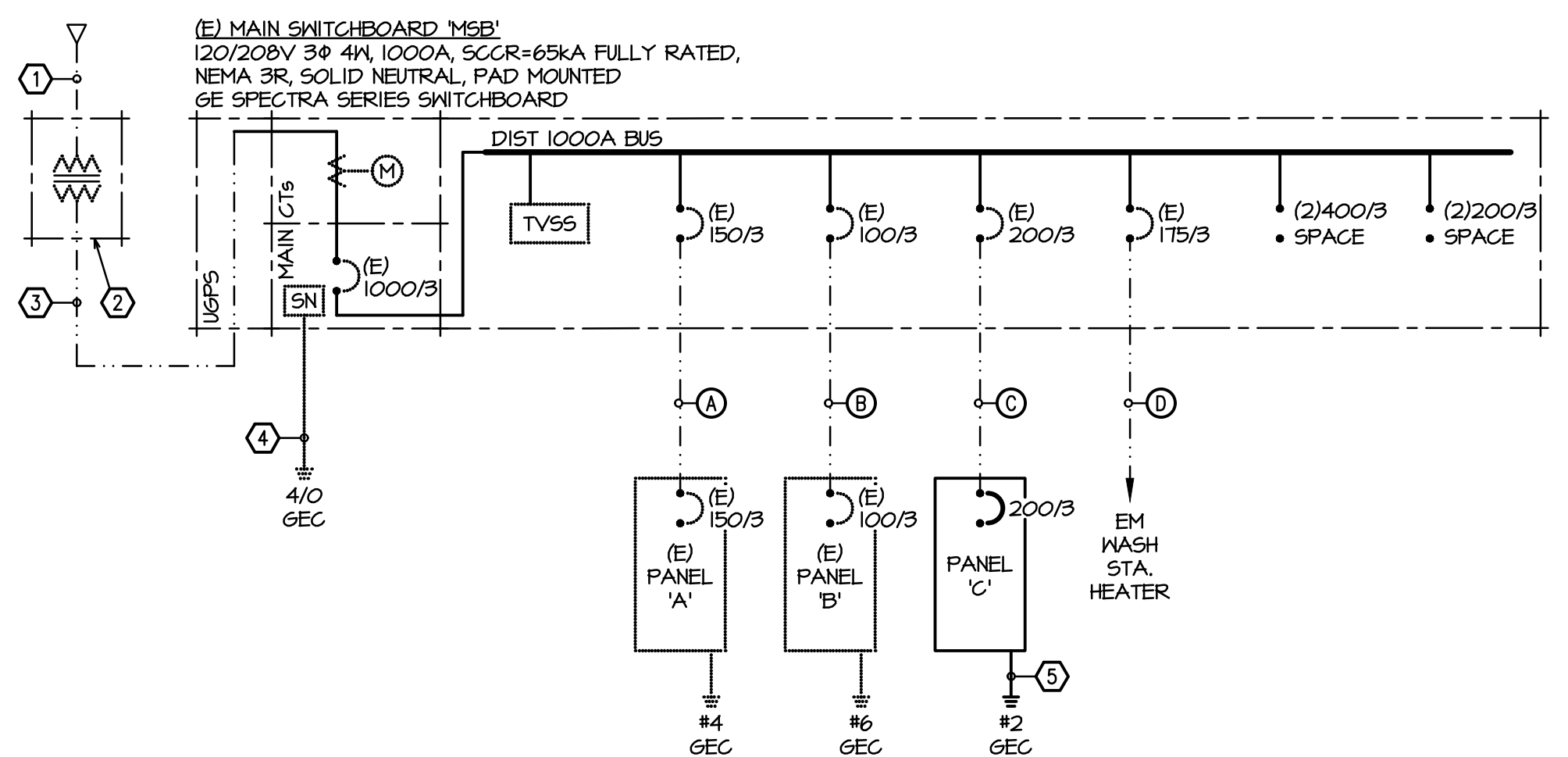
Sheet Content:
 Electrical Notes and Symbols

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" 4#1/0, #66.
- 2" 2" 4#1, #66.
- 3" 4#4/0, #46.
- 2" 3#2/0, #66.

J1 Power Single Line Diagram

Scale: None

No.	Feeder Origin	Feeder Destination	Potential at Origin (P ₁) (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 ₂) (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) = $2 \times K \times Q \times I \times D / CM$
 VD (three phase) = $\sqrt{3} \times K \times Q \times I \times D / CM$
 $\%VD = VD / P_1 \times 100$

E1 Voltage Drop Calculations

Scale: None

TYPE	MANUFACTURER	CATALOG NO.	LAMPING	WATTS	VOLTS	MOUNTING	REMARK
F	LITHONIA	IBG 24000LM 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
 CONNECTED LOAD: 97 A
 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
 CONNECTED LOAD: 26 A
 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
 CONNECTED LOAD: 72 A
 MAX CURRENT: 72 A

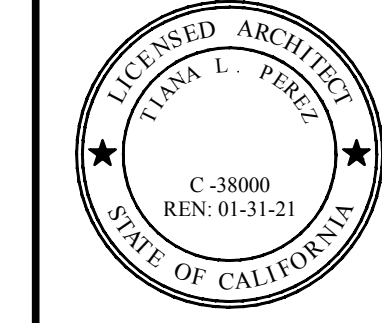
BUSING: 200A MAIN: 200A
 NOTES: * PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS.

A10 Panel Schedules

Scale: None



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



ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of Public Works & Planning
 Development Services and Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 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:
 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

▲ Bid Addendum 2 5-21-2021	▲ Plan Review Corrections 5-21-2021
-------------------------------	--

File: 20055 - Elec Ph3 Warehouse.dwg > Plotted: 5/21/2021 4:39 PM

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 Parkland L2-2: Moderate - Rural Areas L2-4: High - Must be reviewed by CA Energy Commission for Approval
 L2-1: Low - Developed Parkland 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 §140.7 or §141.0022, for alterations.

My Project Consists of:
 New Lighting System Must Comply with Allowances from §140.7
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
 Alteration 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: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 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 1 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) §140.7 or §141.0022									
01	02	03	04	05	06	07	08	09	10
General Hardcape Allowance §140.7(a)(1) (See Table I)	Per Application Allowance §140.7(a)(2) (See Table J)	Sales Frontage Allowance §140.7(a)(3) (See Table K)	Ornamental Allowance §140.7(a)(4) (See Table L)	Per Specific Area Allowance §140.7(a)(5) (See Table M)	OR	Existing Power Allowance §141.0022 (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08
479.4	---	---	---	---	OR	---	479.4	125	COMPLIES

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

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: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 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 1 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 §140.7, 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 §141.0022, 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 Luminaires Description	Watts per luminaire ¹	How is Wattage determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumens output §130.20(a)	Field Inspector
P	25.0w LED Wall Light <input type="checkbox"/> Linear <input type="checkbox"/> CEC Default	25	CEC Default	5	New	<input type="checkbox"/>	125	NA: < 6200 lumens	<input type="checkbox"/> <input type="checkbox"/>
Total Design Watts:							125		

*NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 (1) Luminaires a lighting system (EXCEPTION 2 to §140.7(a))
 (2) FOOTNOTES: Authority having jurisdiction may use for luminaire cut sheets to confirm wattage used for compliance per §130.20(c)
 (3) 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.
 * 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.
 * Compliance with mandatory cutoff requirements is required for luminaires with initial lumens output >= 6,200 unless exempted by §130.20(d)

G. OUTDOOR REQUIREMENTS (BUS)
 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: Energsoft
 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 1 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 (using 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 §130.20(c)(1)	Auto-Schedule §130.20(c)(2)	Motion Sensor §130.20(c)(3)	Field Inspector
Bldg. Exterior	Astronomical Timer	Yes	NA: Facade, etc. <=24 ft	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

*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 §130.20(c)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 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 1 of 7
 Project Address: 310 S. West Ave. Date Prepared: 7/20/2020

I. LIGHTING POWER ALLOWANCE (per §140.7)
 This table includes areas using allowance calculations per §140.7, General Hardcape Allowance is per Table 140.7.2 while "Use it or lose it" Allowance is per Table 140.7.2-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01	02	03	04	05	06	07	08	09	10		
General Hardcape Allowance Table I (Below)	"Use it or lose it" Allowance (select all that apply) (select all that apply) Table J (Below)	Per Application Table K	Sales Frontage Table L	Ornamental Table M	Per Specific Table N	Area Wattage Allowance (AWA)	Area Wattage Allowance (AWA)	Perimeter Length (ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)	
---	<input type="checkbox"/> Per Application <input type="checkbox"/> Sales Frontage <input type="checkbox"/> Ornamental <input type="checkbox"/> Per Specific	---	---	---	---	2386	0.03	59.65	279	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: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 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 1 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 have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

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

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

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
 Registration Provider: Energsoft
 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 1 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 Clovis, CA 93612
 Phone: 559-323-4995

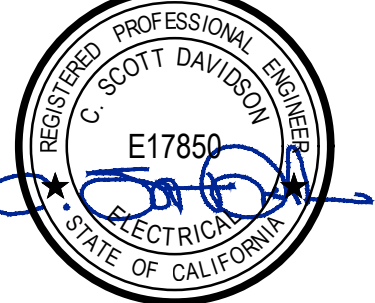
Documentation Author Signature: [Signature]
 Signature Date: 2020-07-20
 (CA HERS Certification Identification (if applicable): E17850)

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 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conform to the requirements of the AS, Part 1 and Part 6 of the California Code of Regulations.
 3. The energy features and performance specifications, materials, components, and manufacturer devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of the AS, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

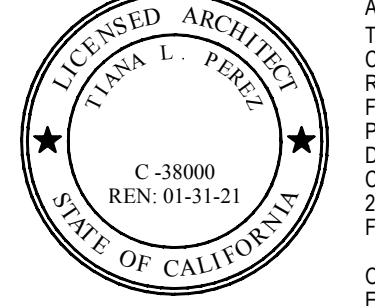
Responsible Designer Name: C. Scott Davidson
 Company: Hardin-Davidson Engineering
 Address: 356 Pollasky Ave., Suite 200 Clovis, CA 93612
 Phone: 559-323-4995

Responsible Designer Signature: [Signature]
 Date Signed: 2020-07-20
 License: E17850
 City/State: 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: Energsoft
 Report Generated: 2020-07-20 12:09:16



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



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



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

ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Fresno County Department of Public Works & Planning
 Development Services and Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 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 \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC

Sheet Content:
 Title 24 Compliance Documents

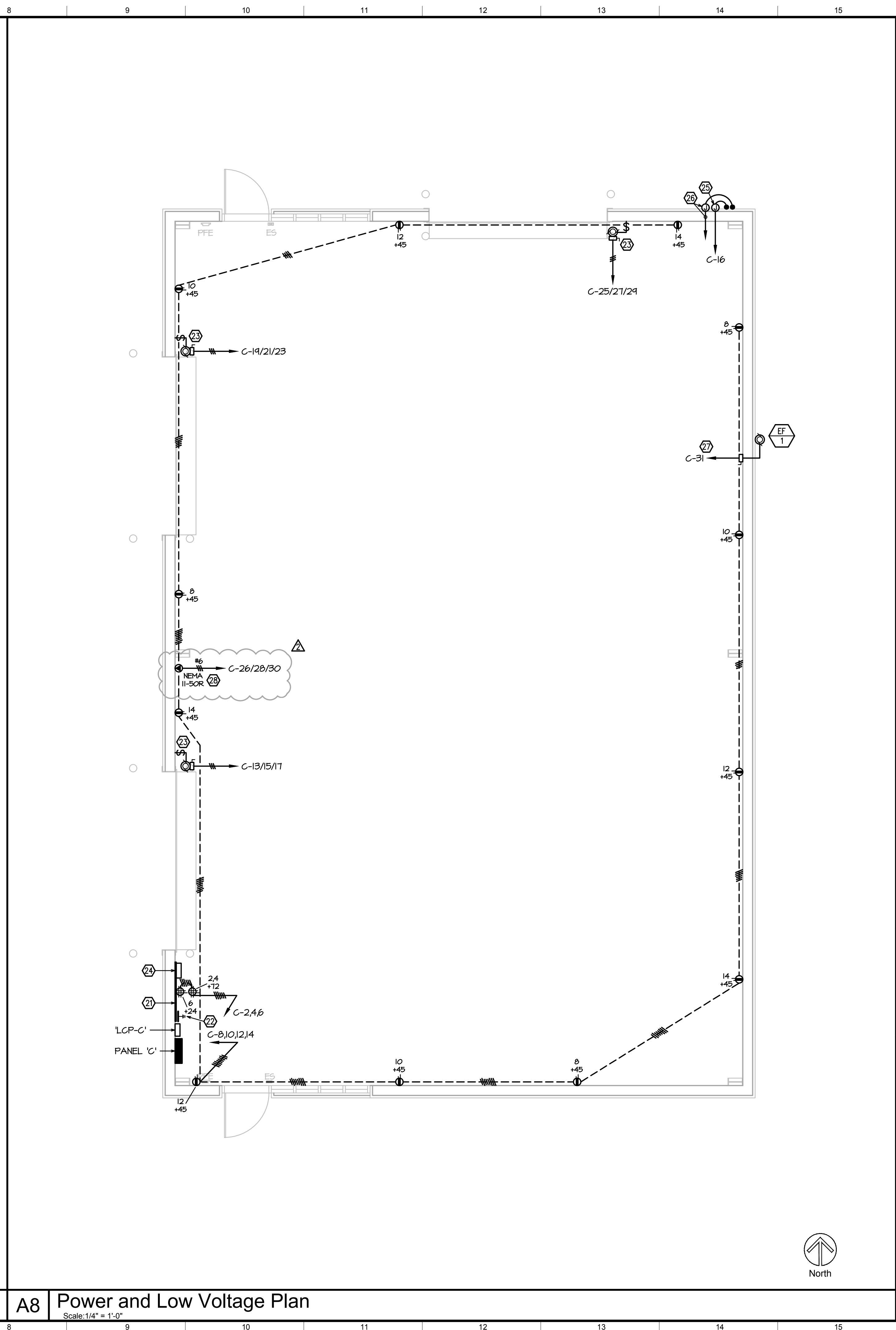
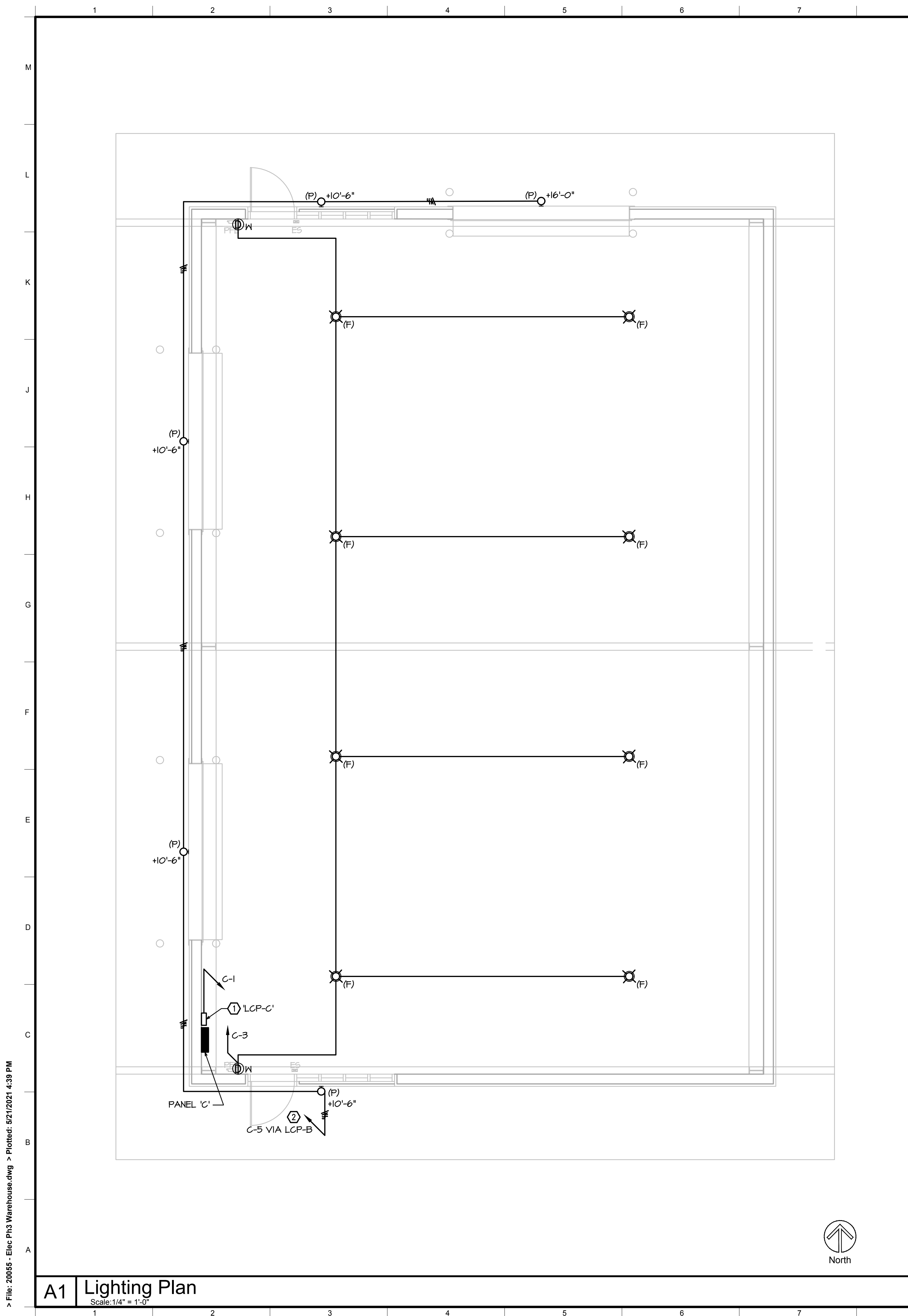
Fresno County Department of Public Works and Planning
 Capital Projects



2220 Tulare Street, 8th Floor
 Fresno, California 93721

Sheet No.
E1.4

Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
-----------------------------	--------------------------------------



- KEYNOTES**
1. LIGHTING CONTROL PANEL: LITHONIA FLIGHT ARP PANEL MOUNT ADJACENT TO POWER PANEL. CONNECT EXTERIOR LIGHTING TOWER 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 LOCK-ON DEVICES ON CIRCUIT BREAKERS. 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. WP J-BOX FOR FIRE SPRINKLER RISER BELL. CONNECT TO FLOW SWITCH AND RISER BELL ON NOTED POWER.
 8. WP 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.

REGISTERED PROFESSIONAL ENGINEER
C. SCOTT DAVIDSON
 E17850
 STATE OF CALIFORNIA
Hardin-Davidson Engineering
 356 Pollasky Ave.
 Suite 200
 Clovis, CA 93612
 559.323.4995 tel
 www.hardin-davidson.com

LICENSED ARCHITECT
TIANA L. PEREZ
 C-38000
 REN: 01-31-21
 STATE OF CALIFORNIA
 ARCHITECT:
 Tiana L. Perez, Architect
 California Licensed Architect No. C-38000
 Ren. 01-31-21
 Fresno County Department of
 Public Works & Planning
 Development Services and
 Capital Projects Division
 2220 Tulare Street, Eighth Floor
 Fresno, California 93721
 Office: (559) 600-4536
 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\American
 Ave Landfill\T90203 Environmental Compliance Center\00
 2018 ECC

Sheet Content:
 Warehouse Building
 Electrical Plans

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

Sheet No.
E2.1

Bid Addendum 2 5-21-2021	Plan Review Corrections 5-21-2021
-----------------------------	--------------------------------------

> File: 20055 - Elec PH3 Warehouse.dwg > Plotted: 5/21/2021 4:39 PM
 Drawn by: CMV
 Plotted on: 21.05.2021

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

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