

FRESNO COUNTY ENVIRONMENTAL COMPLIANCE CENTER PHASE 3 - WAREHOUSE BUILDING

310 S. West Avenue Fresno CA, 93706

STRUCTURES UNDER SEPARATE PERMIT:

- THE FOLLOWING STRUCTURES ARE SUBMITTED TO COUNTY OF FRESNO FOR APPROVAL AND ISSUANCE OF A SEPARATE PERMIT:
- I. PHASE I: SITE AND SHADE STRUCTURE 2. 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 DRAWINGS AND ANCHOR BOLT PLACEMENT DIMENSIONS AND OTHER ITEMS REQUIRED FOR PERMIT. CONTRACTOR SHALL SUBMIT THE PLANS TO ARCHITECT FOR APPROVAL PRIOR TO SUBMITTING TO FRESNO COUNTY. SEE
- 2. FIRE SPRINKLERS: CONTRACTOR TO SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY PRIOR TO INSTALLATION OF THE FIRE SPRINKLERS, LAYOUT AND DETAIL OF THE FIRE SPRINKLER SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND "FRESNO FIRE DEPARTMENT (FFD) PRIOR TO SUBMITTING THE PLANS TO FRESNO COUNTY. THE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR AND SHALL BE INSPECTED AND APPROVED BY THE APPROPRIATE FIRE MARSHALL PRIOR TO APPROVAL OF OCCUPANCY OF THE BUILDING. SEE SPECIFICATIONS.
- 3. FIRE ALARMS: CONTRACTOR SHALL SUBMIT PLANS TO AND OBTAIN PERMIT FROM FRESNO COUNTY AND FRESNO FIRE DEPARTMENT FOR THE INSTALLATION OF FIRE ALARM SYSTEM. SEE SPECIFICATIONS. GENERAL CONTRACTOR SHALL COORDINATE FIRE ALARM SYSTEM INTERFACES BETWWEEN FIRE ALARM CONTRACTOR, SPRINKLER, CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRACES (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.
- 2. CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION SPECIFIC TO THE AREA OF CHANGE TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE ARCHITECT AND SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL [CBC 107].
- 3. THE CONTRACTOR SHALL PROVIDE (I) ONE N.F.P.A. CLASS 2A-IOBC FIRE EXTINGUISHER AT THE JOB SITE DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WORK SITE IN A SECURED CONDITION.
- 5. CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFEGUARDS DURING CONSTRUCTION SHALL BE STRICTLY FOLLOWED.
- 6. THE APPROVAL OF THESE PLANS AND SPECIFICATIONS DOES NOT PERMIT THE VIOLATION OF ANY SECTION OF THE BUILDING CODE, MUNICIPAL ORDINANCES, OR STATE LAWS.
- 7. THESE APPROVED PLANS AND RELATED DOCUMENTS MUST BE AVAILABLE AT THE JOB SITE DURING ANY INSPECTION ACTIVITY.
- 8. SOILS AND SPECIAL CONCRETE TESTING SHALL BE CONDUCTED BY THE FRESNO COUNTY MATERIALS AND TESTING LABORATORY.
- 9. STEEL FABRICATION SPECIAL INSPECTION SHALL BE CONDUCTED BY KRAZAN AND ASSOCIATES, 215 WEST DAKOTA AVENUE CLOVIS, CA 93612 (559-348 2200)
- 10. CONTRACTOR SHALL PROVIDE A CHEMICAL TOILET ON SITE DURING CONSTRUCTION.

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 WEBPAGE UNDER FIRE PREVENTION & INVESTIGATION, FIRE DEPARTMENT POLICIES.
- 2. SUBMIT PLANS TO AND OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE ALARM SYSTEM. SEE FFD POLICY 401.012.
- 3. THE GENERAL CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INTERFACES BETWEEN THE FIRE ALARM CONTRACTOR, SPRINKLER CONTRACTOR, MECHANICAL CONTRACTOR AND ANY OTHER PERTINENT TRADES (FIRE ALARM, SPRINKLER SYSTEM, HOOD AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.). ALL WORK MUST REMAIN VISIBLE AND MAY NOT BE COVERED UNTIL THE REQUIRED FIRE INSPECTIONS HAVE BEEN COMPLETED BY THE FIRE DEPARTMENT.
- 4. EMERGENCY ALARM SYSTEM INTERCONNECTION REQUIREMENTS: WHERE AN EMERGENCY ALARM SYSTEM IS REQUIRED BY THIS SECTION AND A BUILDING FIRE ALARM IS INSTALLED, THE EMERGENCY ALARM SYSTEM SHALL BE INTERCONNECTED WITH AND SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM. FMC 10-50908.4 AND NFPA SECTIONS 10.7 AND IO.IO. IF APPLICABLE.
- 5. ALL WEATHER ACCESS ROADS SHALL BE INSTALLED AND MAINTAINED IN A SERVICEABLE CONDITION PRIOR TO AND DURING CONSTRUCTION. (FFD DEVELOPMENT POLICY 403.002)
- 6. ADDRESS IDENTIFICATION. FOR NEW AND EXISTING BUILDINGS, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE APPROVED ADDRESS OR BUILDING IDENTIFICATION SIGNAGE AS NEEDED TO READILY DETERMINE THE BUILDING OR AREA OF A BUILDING PROTECTED BY FIRE DEPARTMENT CONNECTIONS. FMC SECTION 10-50912.2.3.

CODE CITATIONS:

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

APPLICABLE STATE CODES:

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

APPLICABLE CODE OF ORDINANCE:

APPLICABLE REFERENCE STANDARDS:

COUNTY OF FRESNO ORDINANCE TITLE 15

2019 NFPA 13, AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED) 2019 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED); SEE UL STD. 1971 FOR "VISUAL DEVICES"

SHEET INDEX:

GO.O COVER

ARCHITECTURAL SHEETS 10 SHEETS REFERENCE OVERALL SITE PLAN (SUBMITTED AS PHASE I)

- REFERENCE ENLARGED SITE PLAN (SUBMITTED AS PHASE I) FLOOR PLAN & ELEVATIONS
- A2.2 REFLECTED CEILING PLAN & SECTIONS
- A3.I FINISH SCHEDULE
- A3.2 DOOR SCHEDULE & WINDOW ELEVATION A3.3 DETAILS
- CALGREEN COMPLIANCE SHEET I
- A4.2 CALGREEN COMPLIANCE SHEET 2
- A4.3 CALGREEN COMPLIANCE SHEET 3
- SI.I STRUCTURAL NOTES
- SI.2 STRUCTURAL NOTES
- S2.I FOUNDATION PLAN
- 52.2 ROOF FRAMING PLAN S3.I STRUCTURAL DETAILS

- PI.3 WAREHOUSE BUILDING PLUMBING PLUMBING PLAN
- P2.0 WAREHOUSE PLUMBING SCHEDULES AND DETAILS P2.I WAREHOUSE BUILDING RISER DETAILS

MECHANICAL SHEETS

- MLO WAREHOUSE BUILDING MECHANICAL PLAN
- M2.0 WAREHOUSE MECHANICAL SCHEDULES AND DETAILS M2.I MECHANICAL SCHEDULES AND DETAILS

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

TOTAL:

27 SHEETS

CONTRACT DOCUMENTS:

ARCHITECT OF RECORD:

TIANA L. PEREZ, ARCHITECT

CALIFORNIA LICENSED ARCHITECT NO. C-38000 REN. 01-31-23 FRESNO COUNTY DEPARTMENT OF

PUBLIC WORKS & PLANNING DEVELOPMENT SERVICES AND CAPITAL PROJECTS DIVISION

E-MAIL: TPEREZ@FRESNOCOUNTY.GOV

DANIEL ZOLDAK LIC.# RCE 66124 4694 W. JACQUELYN AVE.

E-MAIL: LAINFO@LARSANDERSEN.COM

SSG STRUCTURAL ENGINEERS, LLP MICHAEL PAROLINI LIC.# 5405 8405 NORTH FRESNO STREET, SUITE 120

FRESNO CA, 93720 OFFICE: 559-439-2120

ENGINEER OF RECORD:

LIC.# M23588 7084 NORTH MAPLE AVENUE, SUITE IOI FRESNO CA, 93720

OFFICE: 559-431-0101 E-MAIL: MIKE@LEGFRESNO.COM

ELECTRICAL

HARDIN DAVIDSON ENGINEERING SCOTT DAVIDSON LIC.# EI7850 CLOVIS CA, 93612

ARCHITECTURAL CONSULTANT:

DYSON & JANZEN ARCHITECTS 1295 N. WISHON AVE. SUITE IOI FRESNO CA, 93728 OFFICE: 559-497-6370 E-MAIL: ADYSON@DYSONJANZEN.COM

2220 TULARE STREET, EIGHTH FLOOR

FRESNO, CALIFORNIA 93721 OFFICE: (559) 600-4536

CONSULTANTS:

CIVIL / LANDSCAPE ENGINEER OF RECORD:

LARS ANDERSEN & ASSOCIATES, INC. FRESNO CA, 93722

OFFICE: 559-276-2790

ENGINEER OF RECORD:

E-MAIL: MICHAEL.PAROLINI@SSGSE.COM

MECHANICAL / PLUMBING

LAWRENCE ENGINEERING GROUP MICHAEL CANTELMI

ENGINEER OF RECORD:

356 POLLASKY AVENUE SUITE 200 OFFICE: 559-323-4995 E-MAIL: SD@HARDIN-DAVIDSON.COM

The Information on this Drawing is acceptable and shall define the Scope of Work to develop this Project. Any

PROJECT DATA:

MAREHOUSE BUILDING

APN: 458-060-72

ITE AREA: 2.68 ACRE

FRESNO COUNTY ENVIRONMENTAL COMPLIANCE CENTER

SITE WORK IS SUBMITTED UNDER SEPARATE PERMIT)

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

TYPE OF CONSTRUCTION: V-B (SPRINKLERED)

ZONING: M-I LIGHT MANUFACTURING DISTRICT

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.

310 S. WEST AVENUE, FRESNO, CA. 93706

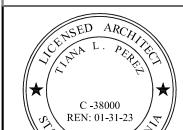
NAREHOUSE BUILDING AREA: 2,400 S.F.

OCCUPANCY GROUP: STORAGE (SI/S2)

rotal building AREA: 3,430 S.F.

SCOPE OF WORK

significant changes to the Scope of Work shall be approved by the Client Department.



Project:

Fresno County

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

Tiana L. Perez, Architect

E-mail: tperez@fresnocountyca.gov

Phase 3: Warehouse Building

Environmental Compliance Center

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

Sheet Content:

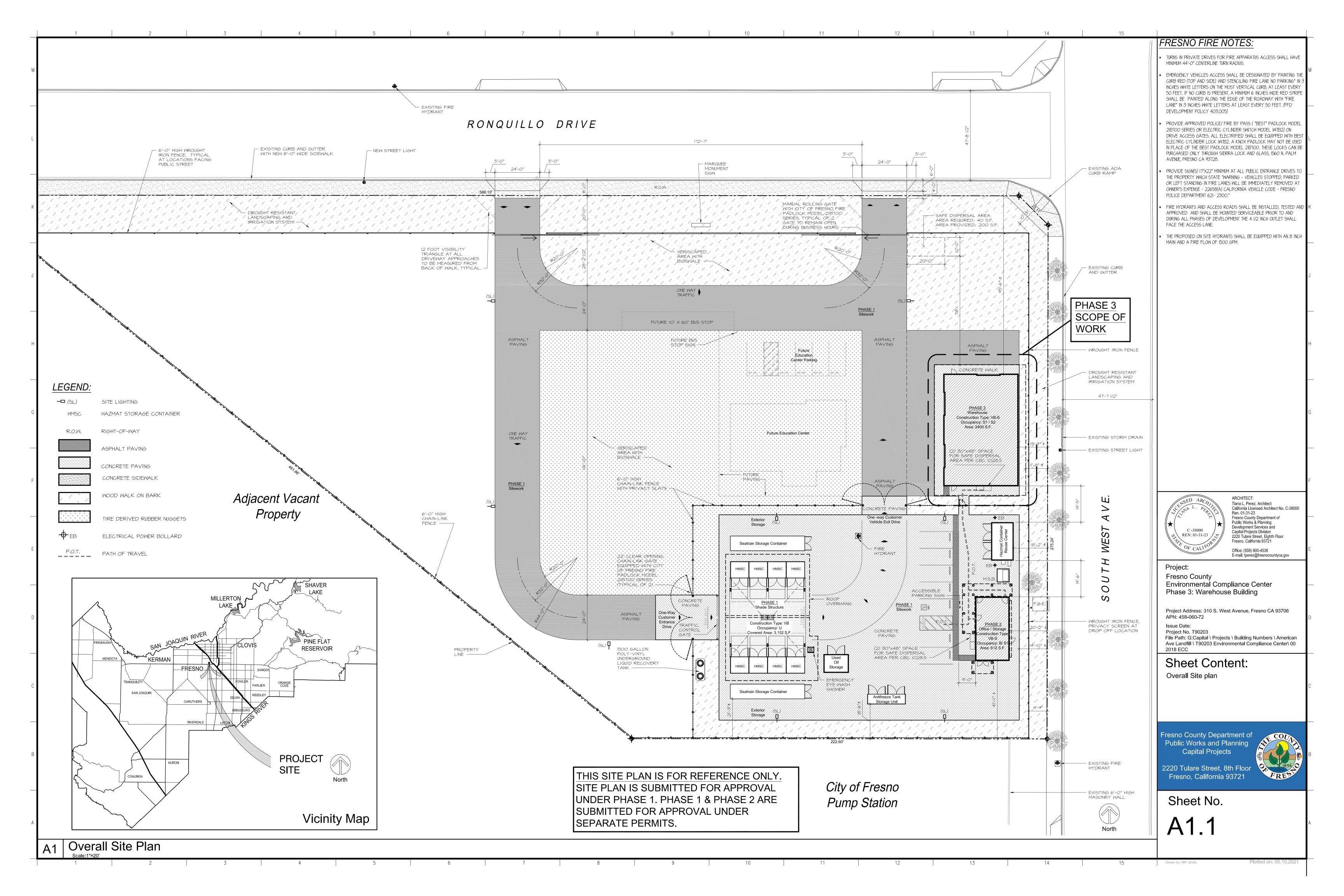
Cover Sheet

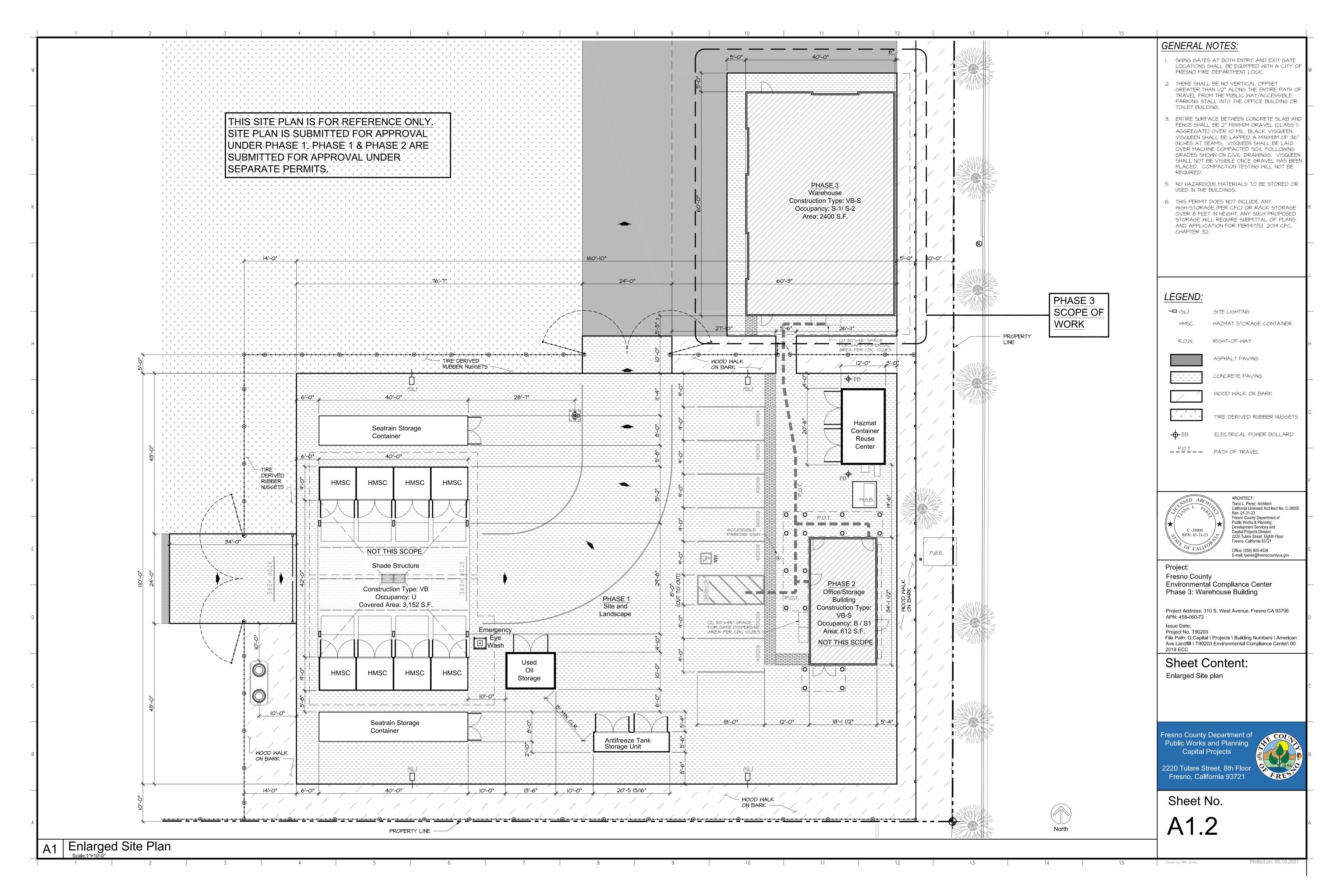
Fresno County Department of Public Works and Planning Capital Projects

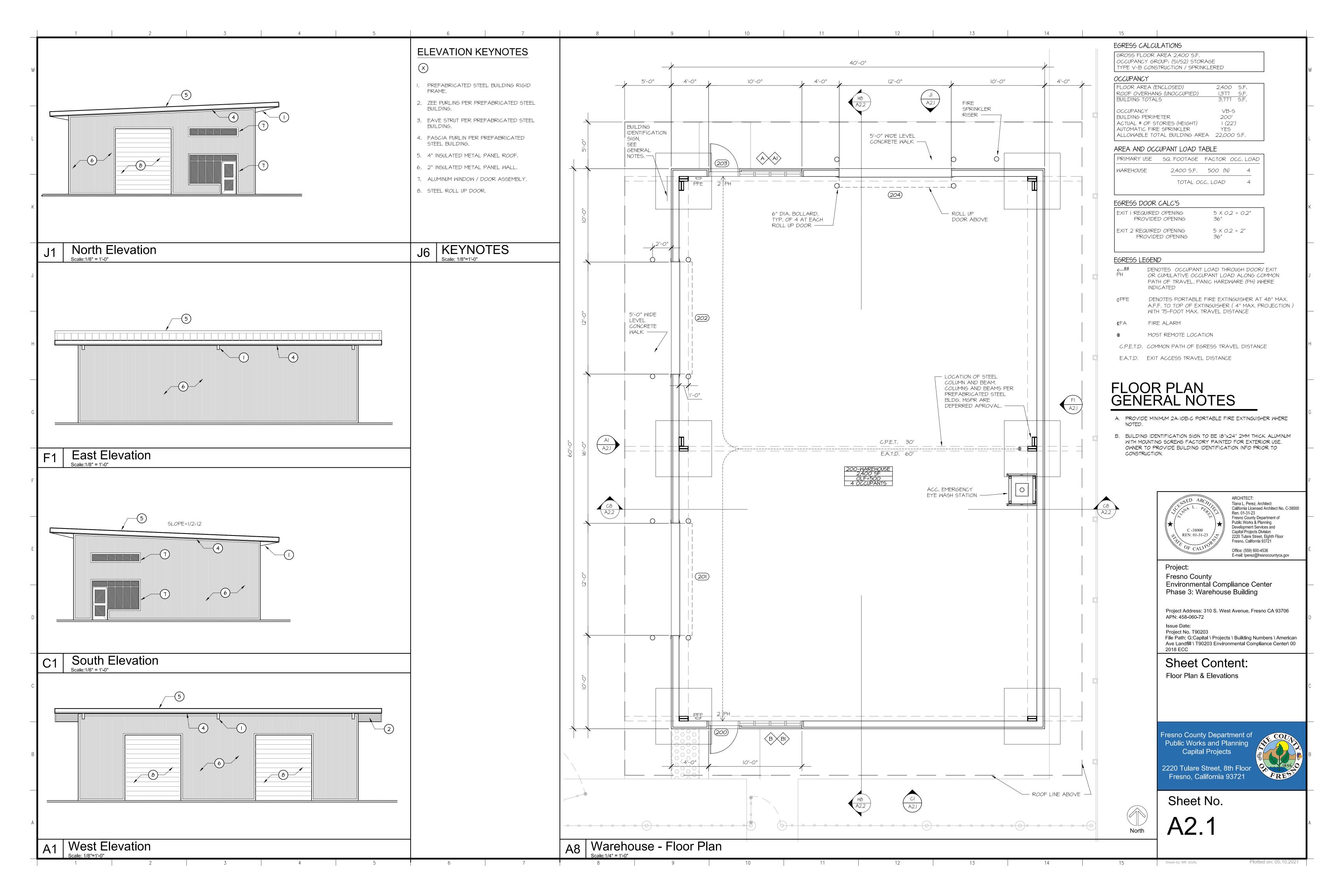
2220 Tulare Street, 8th Floor Fresno, California 93721

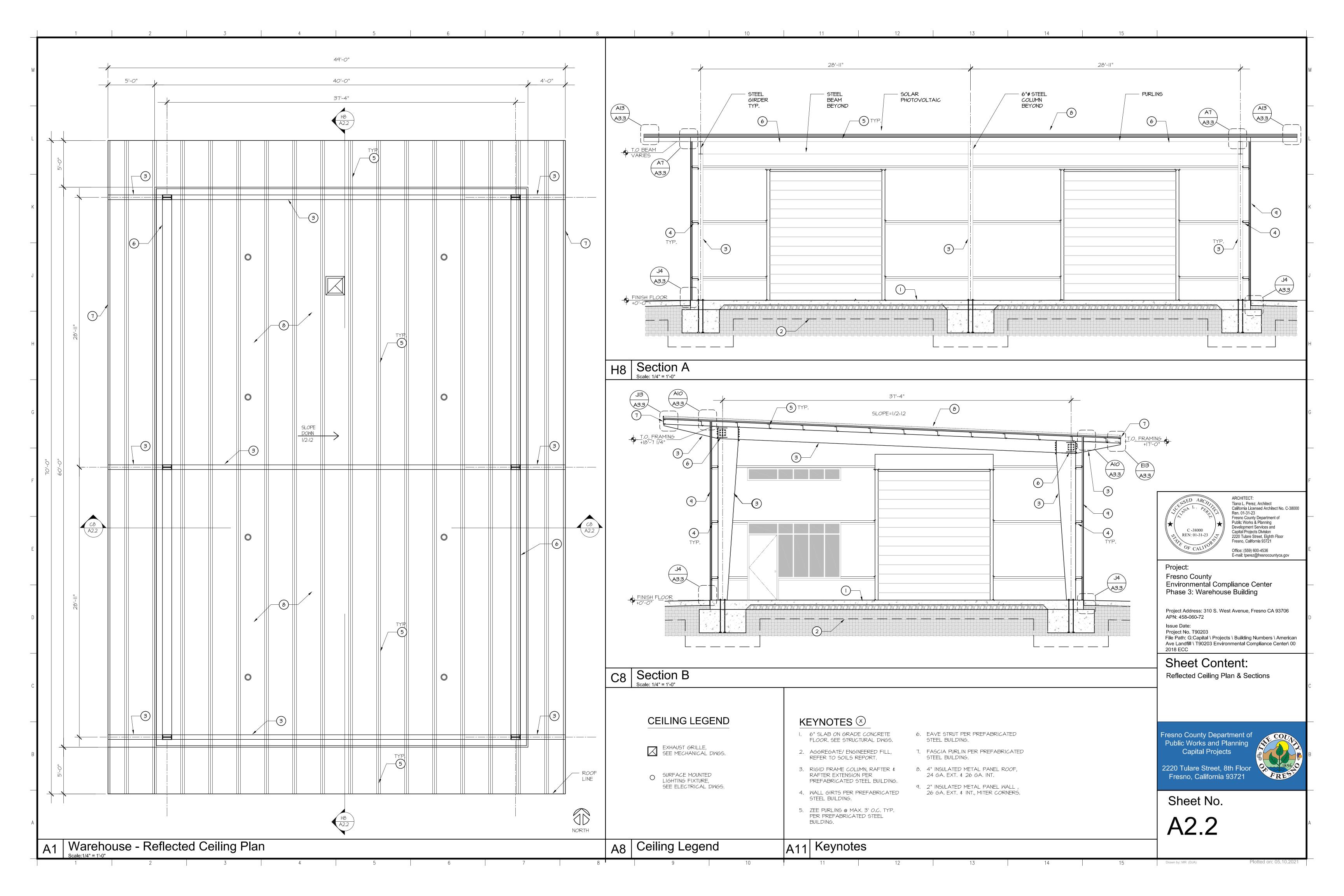
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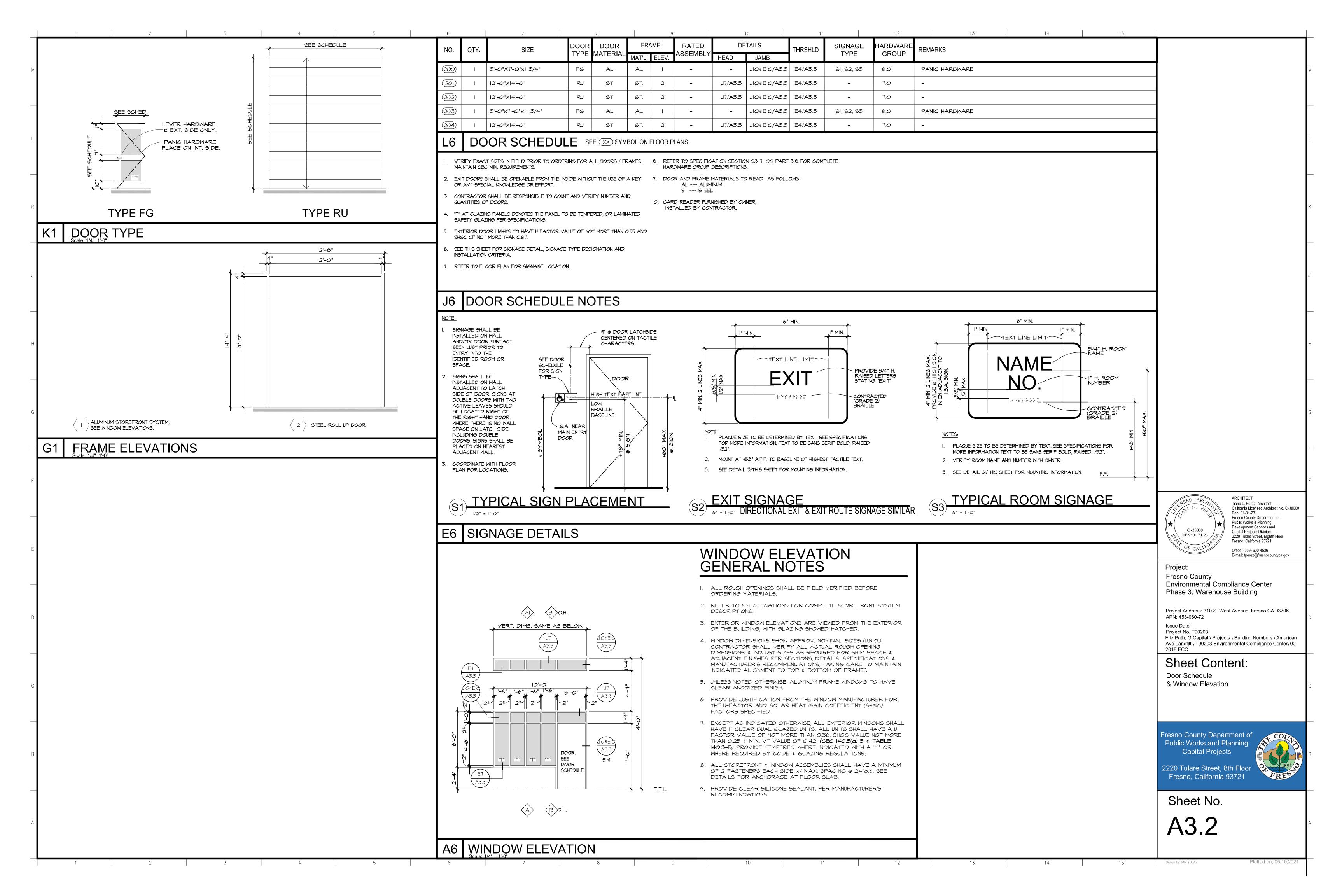


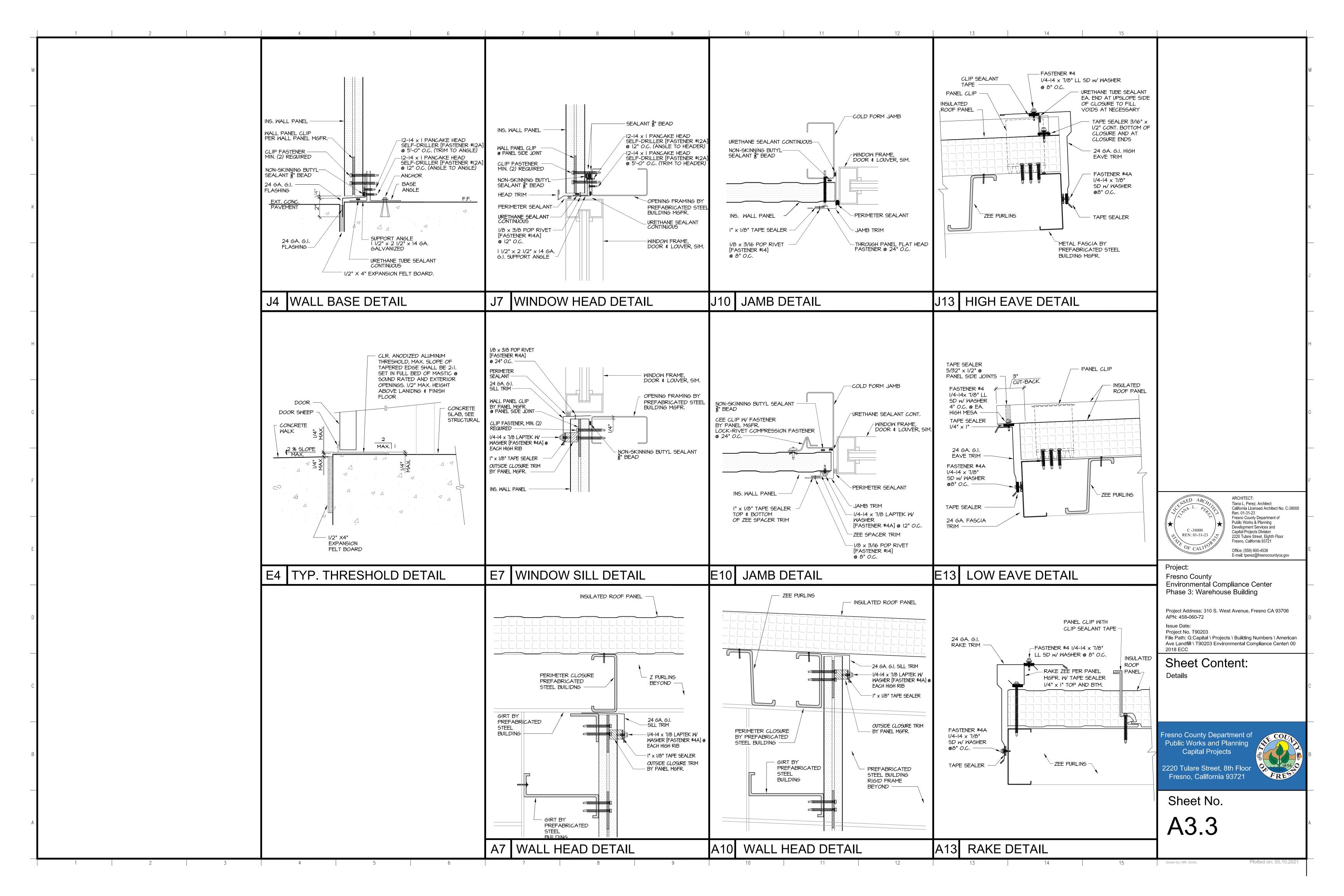




	ITEM CODE DESCRIPTION	REMARKS	
	F-I EXPOSED CONCRETE WITH CLEAR SATIN CONCRETE SEALER		
			_
	B-I NO BASE (EXPOSED WALL PANEL, SEE W-I)		_
	BAS		-
	M-I EXPOSED WALL PANEL	PROTECTIVE PAINT PER MGFR	1
	MALL MELLOSED MALE LA M		
	C-I EXPOSED ROOF PANEL	PROTECTIVE PAINT PER PANEL MGFR	
			_
	M-I ENAMEL (ACRYLIC) PAINTED H.M. DOOR/FRAMES	PAINT HM DOORG AND EDAMEG	-
	M-I ENAMEL (ACRYLIC) PAINTED H.M. DOOR/FRAMES M-2 ENAMEL (ACRYLIC) PAINTED H.M. WINDOW FRAMES	PAINT H.M. DOORS AND FRAMES PAINT H.M. WINDOW FRAMES	
	M-2 ENAMEL (ACRILIC) PAINTED H.M. WINDOW FRAMES		
,			1
H10 RC	OM FINISH SCHEDULE, TYP	P. THROUGHOUT	1
-			1
I. TYPES "F-I FINISHES A	-I", "B-I", "W-I", "C-I" ARE STANDARD FINISHES THAT APPLY THROUGHOUT ARE APPLICABLE THROUGHOUT THE BUILDING AS INDICATED.	ALL AREAS EXCEPT WHERE OTHER FINISHES ARE INDICATED. MISCELLANEOUS	
	ALL STAIN, PAINT, SEALER AND ACCENT COLORS SHALL BE AS SELECTED BY ARC		
MA [*]	L INTERIOR FINISHES SHALL BE AS SELECTED BY ARCHITECT/OWNER FROM ACT ATERIAL SHALL BE EPA APPROVED AND AS RECOMMENDED BY THE MANUFACTU PLICATION.		
	4. CONTRACTOR(S) SHALL SUPPLY 5 COPIES MINIMUM OF FULL COLORS/ TEXTURES/ S	AMPLE RANGES FOR ARCHITECT'S SELECTION. ALL SAMPLES SHALL BE ACTUAL	
	ATERIALS/ COLORS AND NOT PHOTO REPRODUCTIONS. IL EXPOSED METAL SHALL BE PRIMED AND PAINTED. COLORS AS SELECTED BY	ARCHITECT/OWNER.	
	6. PREPARE ALL FLOORS PRIOR TO COVERING, CLEAN AND FILL, LEVEL UNEVENNESS SEAL FLOORS W/ MFGR APPROVED VAPOR EMISSIONS TREATMENT WHERE MOISTUI		
7. MINIM	YUM PAINT/STAIN COAT FINISHES ARE INDICATED IN SPEC'S. CONTRACTOR(S) !	SHALL APPLY ADDITIONAL COATS AS REQUIRED TO ENSURE/ MAINTAIN / PROVIDE	
8. FL	TENNESS OF COLOR /FINISH ETC. TO THE ACCEPTANCE OF THE OWNER AND ARCH LAME SPREAD & SMOKE DEVELOPED CLASSIFICATION: ALL FINISHES SHALL HAY	VE A CLASS 'C' FLAME SPREAD & SMOKE DEVELOPED CLASSIFICATION OF 450	
OR E	BETTER TO MEET CBC SECTION 803 REQUIREMENTS. ALL DECORATIVE MATER	RIAL MUST BE FLAME RETARDANT TREATED.	
F10	FINISH SCHEDULES NOTES		
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			California Licensed Arc Ren. 01-31-23 Fresno County Departing Development Services Capital Projects Division 2220 Tulare Street, Elg Fresno, California 9372 Office: (559) 600-4536 E-mail: tperez@fresnoc
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			Ren. 01-31-23 Fresno County Department of Public Works and Planning Capital Projects Ren. 01-31-23 Fresno County Services and Capital Projects (559) 600-4536 E-mail: tperez@fresnocoun Project: Fresno County Environmental Compliance Center Phase 3: Warehouse Building Project Address: 310 S. West Avenue, Fresno CA APN: 458-060-72 Issue Date: Project No. T90203 File Path: G:Capital \ Projects \ Building Numbers \ Ave Landfill \ T90203 Environmental Compliance Content: Finish Schedule Fresno County Department of Public Works and Planning Capital Projects 2220 Tulare Street, 8th Floor
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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

N/A RESPON. **CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL 301.1 SCOPE.** Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seg. for definitions. types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) **SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS.** In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **SECTION 303 PHASED PROJECTS 303.1 PHASED PROJECTS.** For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. **303.1.1 Initial Tenant improvements.** The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations. ABBREVIATION DEFINITIONS: Department of Housing and Community Development California Building Standards Commission Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development Low Rise High Rise Additions and Alterations CHAPTER 5 **NONRESIDENTIAL MANDATORY MEASURES DIVISION 5.1 PLANNING AND DESIGN SECTION 5.101 GENERAL** The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties. **SECTION 5.102 DEFINITIONS** 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire. LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following: 1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission

vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer

only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. 2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:

a. Scheduling construction activity during dry weather, when possible.

b. Preservation of natural features, vegetation, soil, and buffers around surface waters.

c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils.

e. Erosion control to protect slopes. f. Protection of storm drain inlets (gravel bags or catch basin inserts).

g. Perimeter sediment control (perimeter silt fence, fiber rolls). Sediment trap or sediment basin to retain sediment on site.

Stabilized construction exits.

Wind erosion control. c. Other soil loss BMPs acceptable to the enforcing agency. 2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges

and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following: Dewatering activities.

b. Material handling and waste management.

c. Building materials stockpile management. d. Management of washout areas (concrete, paints, stucco, etc.).

f. Vehicle and equipment cleaning performed off site. g Spill prevention and control.

h. Other housekeeping BMPs acceptable to the enforcing agency.

e. Control of vehicle/equipment fueling to contractor's staging area.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF **LAND.** Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration hrough nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State

applicable local ordinance, whichever is stricter

minimum of one bicycle parking facility.

Architect pursuant to Section 105, comply with Section 5.106.4.2 **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the

> **5.106.4.1.1 Short-term blcycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.

> **Exception:** Additions or alterations which add nine or less visitor vehicular parking spaces. **5.106.4.1.2** Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking

> spaces with a minimum of one bicycle parking facility. **5.106.4.1.3** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or

3. Lockable, permanently anchored bicycle lockers.

Sacramento Area Bicycle Advocates.

Note: Additional information on recommended bicycle accommodations may be obtained from

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building. **5.106.4.2.2 Staff blcycle parking.** Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities

1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.

shall be convenient from the street or staff parking area and shall meet one of the following:

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING	
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
25-50	3
51-75	6
76-100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8% OF TOTAL

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.

3. The raceway shall not be less than trade size 1".

4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.

5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

The type and location of the EVSE.

2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and

into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.

3. Plan design shall be based upon 40-ampere minimum branch circuits.

4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.

5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions: 1. Where there is insufficient electrical supply.

2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the

TABLE 5.106.5.3.3	
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total ¹

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and

2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8): 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in

4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance

lawfully enacted pursuant to Section 101.7, whichever is more stringent.

1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.

3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8

Alternate materials, designs and methods of construction.

1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.

2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table

A-1, California Energy Code Tables 130.2-A and 130.2-B. 3. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5,106,8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT

AND GLARE (BUG) RATINGS 1,2					
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 4	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 5 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the

California Energy Code and Chapter 10 of the Callifornia Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit

corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met. 4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet *U*-value limits for "all other outdoor lighting".

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

2. Water collection and disposal systems.

French drains. Water retention gardens.

5. Other water measures which keep surface water away from buildings and aid in groundwater

Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not

included in the total area calculations. 5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

provide shade of 20% of the landscape area within 15 years.

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL **5.301.1 Scope.** The provisions of this chapter shall establish the means of conserving water use indoors, outdoors

and in wastewater conveyance. SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks. METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The

volume or cycle duration can be fixed or adjustable. GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers. bathroom

washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5. POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water

treated to remove waste matter attaining a quality that is suitable to use the water again. SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose,

such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter. WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.

2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant

within a new building or within an addition that is projected to consume more than 1,000 gal/day. 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and

urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense

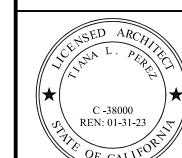
Specification for Tank-Type toilets. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush. 5.303.3.3 Showerheads. [BSC-CG]

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. **Note:** A hand-held shower shall be considered a showerhead



Fresno County

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California Licensed Architect No. C-38000

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

Sheet Content: CAL GREEN COMPLIANCE SHEET 1

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

N/A RESPON. 5.303.3.4 Faucets and fountains. 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons **5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi]. **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle. **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve 5,303,4 COMMERCIAL KITCHEN EQUIPMENT. **5.303.4.1 Food Waste Disposers.** Disposers shall either modulate the use of water to no more than 1 apm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer **5.303.5 AREAS OF ADDITION OR ALTERATION.** For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code. **SECTION 5.304 OUTDOOR WATER USE** 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/. 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. **5.304.6.1** Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet. **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet. DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE **EFFICIENCY SECTION 5.401 GENERAL** 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. materials shall be included in the construction documents. **SECTION 5.402 DEFINITIONS 5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities. BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste. **TEST.** A procedure to determine quantitative performance of a system or equipment CalRecycle's web site

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT **5.407.1 WEATHER PROTECTION.** Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent. 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures. 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An installed awning at least 4 feet in depth. The door is protected by a roof overhang at least 4 feet in depth. . The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. **5.407.2.2.2 Flashing.** Install flashings integrated with a drainage plane. SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or neet a local construction and demolition waste management ordinance, whichever is more stringent. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that: 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Exceptions to Sections 5.408.1.1 and 5.408.1.2: Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency. **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as

necessary and shall be accessible during construction for examination by the enforcing agency.

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance

2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Jniversal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.

2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. **5.410.1.1 Additions.** All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space

Recycling Access Act of 1991 (Act). Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the

5.410.2 COMMISSIONING, [N] New buildings 10,000 square feet and over, For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and -occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Owner's or Owner representative's project requirements. 2. Basis of design.

3. Commissioning measures shown in the construction documents. 4. Commissioning plan.

Functional performance testing. 6. Documentation and training.

7. Commissioning report.

Commissioning requirements shall include:

Unconditioned warehouses of any size.

2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within

3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.

2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals. Building sustainable goals.

3. Indoor environmental quality requirements.

4. Project program, including facility functions and hours of operation, and need for after hours

5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall

cover the following systems:

Renewable energy systems. 2. Landscape irrigation systems.

Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following: General project information.

Commissioning goals.

3. Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent.

 Functions to be tested. d. Conditions under which the test shall be performed.

e. Measurable criteria for acceptable performance.

 Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required. including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements. 2. Site contact information.

3. Basic operations and maintenance, including general site operating procedures, basic

troubleshooting, recommended maintenance requirements, site events log.

5. Site equipment inventory and maintenance notes.

6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning

report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or

equipment it interfaces).

2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual.

4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or

5.410.4 TESTING AND ADJUSTING. New bulldings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.

Landscape irrigation systems. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32⁰ Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm o 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood l⊢joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

support equipment, tractors, boats, and the like, are not included.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE), A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995), or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction. with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than

150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to nundreths of a gram (g O³/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected o remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain nydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17. Section 94508(a) Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition

woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6,

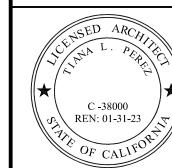
included in that specific regulation is the one that prevails for the specific measure in question. SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed

Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.



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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

Sheet Content:

CAL GREEN COMPLIANCE SHEET 2

File Path: G:Capital \ Projects \ Building Numbers \ American

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Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)

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

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5,504.4.1 and 5,504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

TABLE 5.504.4.1 - ADHESIVE VOC LIM	1 IT _{1,2}
Less Water and Less Exempt Compounds in Grams p	per Liter
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

- 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
- 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LI	MIT
Less Water and Less Exempt Compounds in Gran	ns per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT	COMPOUNDS
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

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

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

product requirements:

1. Carpet and Rug Institute's Green Label Plus Program. 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February

2010 (also known as CDPH Standard Method V1.1 or Specification 01350). NSF/ANSI 140 at the Gold level or higher;

Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the

requirements of the Carpet and Rug Institute Green Label program.

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

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

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

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

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS ₁	
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER M	ILLION
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD2	0.13

1 VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM F 1333 FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

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

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

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

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

Exceptions: Existing mechanical equipment.

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

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

SECTION 5.505 INDOOR MOISTURE CONTROL

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

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO₂ sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

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

1. Within the 65 CNEL noise contour of an airport.

- 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
- 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.
- 5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). **5.507.4.2 Performance Method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does

not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation. **5.507.4.2.1 Site Features.** Exterior features such as sound walls or earth berms may be utilized as

appropriate to the building, addition or alteration project to mitigate sound migration to the interior. **5.507.4.2.2 Documentation of Compliance.** An acoustical analysis documenting complying interior

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant

spaces and public places shall have an STC of at least 40.

sound levels shall be prepared by personnel approved by the architect or engineer of record.

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

SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression

equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. **5.508.2.2.2.1 Chain tethers.** Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

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

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

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

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

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

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and

appropriate tracer gas to bring system pressure up to 300 psig minimum. 5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

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

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

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

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

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

- . State certified apprenticeship programs.
- Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.

5. Other programs acceptable to the enforcing agency.

- **702.2 SPECIAL INSPECTION [HCD].** When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:
- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building
- performance contractors, and home energy auditors. 3. Successful completion of a third party apprentice training program in the appropriate trade.
- 4. Other programs acceptable to the enforcing agency.
- 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate

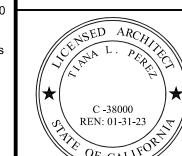
homes in California according to the Home Energy Rating System (HERS).

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

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

703 VERIFICATIONS

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



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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

Sheet Content:

CAL GREEN COMPLIANCE SHEET 3

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

procedures. responsible for all work not performed in accordance with the "approved" drawings.

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) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC (print or digital version) on the job site.
- 4. The Construction Documents shall consist of these notes, details, schedules, plans, drawings, and Specifications.
- 5. All specifications, including but not limited to materials and products, shall be those put forth in the Construction Documents. No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Engineer of Record.
- 6. The contractor shall examine the Construction Documents and shall notify the Engineer of Record of any discrepancies they may find before proceeding with the work.
- 7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Engineer of Record of any discrepancies between actual site conditions and information shown on or in the Construction Documents before proceeding with work.
- 8. The Contractor shall immediately notify the Engineer of Record of any condition which in their opinion might endanger the stability of the structure or cause distress of the structure.
- 9. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
- 10. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
- 11. These Construction Documents represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and
- 12. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
- 13. These notes, details, drawings and Specifications (Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
- 14. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
- 15. Inspection and approval for shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704.2.5. A. Labeling (as required or specified) shall be provided in accordance with CBC Section
- B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703.6.
- 16. The Contractor shall refer to the Specifications for information not covered by these drawings and General Notes.
- 17. Observation visits to the project site by field representatives of the Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. These support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
- 18. Provide openings and supports as required per typical details and notes for mechanical, plumbing, and electrical equipment, vents, ducts, piping, etc. All mechanical, plumbing and electrical equipment shall be properly braced against lateral forces.
- 19. Refer to drawings by other disciplines to coordinate with Structural Drawings. Any discrepancy between these drawings shall be referred to the Architect or Engineer of Record for clarification prior to the start of construction.
- 20. Written dimensions shall have precedence over scaled dimensions.
- 21. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
- 22. In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, their construction shall be of the same character as for similar conditions that are shown or called for.
- 23. The Contractor shall have a copy of the Project Geotechincal Investigation on the job site.
- 24. ASTM designation and all standards refer to the latest amendments.
- 25. These structural Construction Documents shall not be modified without prior written approval of the Engineer of Record.
- 26. Only structural working drawings approved by the Authority Having Jurisdiction are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely
- 27. Refer to Architectural Drawings for all fire protection requirements.
- SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW
- proportioning) of the following (but not limited to) components or elements.
- A. Concrete mix designs B. Reinforcing Bar
- C. Structural Steel
- D. Substitute or alternate materials
- 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, 5. Cement shall be Portland Cement Type II/V and shall conform to ASTM C150. incorporation of any noted revisions made by the Engineer of Record into the documents, and final approval.
- 3. Shop drawings shall not be a reproduction of structural drawing sheets.
- 4. When the Contractor submits shop drawings or other submittals to the Engineer of Record for review, submittal package shall contain sufficient copies that the Engineer of Record may retain a complete copy of submittal package.
- 5. The Contractor shall allow sufficient time for the Engineer of Record to thoroughly review submittal package (10 working days, minimum).
- 6. Review of Shop Drawings or Contractor Submittal by Engineer of Record does not in any way constitute approval of submittal package. Engineer of Record's review is for general conformance with the design concept and contract documents. Review shall not be construed as relieving the Contractor from compliance with the contract documents.

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. We estimate the depth of stripping to be less than 4 inches. Stripped topsoil, less any debris, may be stockpiled and reused for landscape purposes. Organics which remain below stripping depth may be incorporated into the fill areas as long as the total amount of organics does not exceed 3 percent, by weight, of the fill material (ASTM D-2974).
- 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 that may exist within the area of construction. Any obstructions shall be removed from the project area. If any areas or pockets of soft or saturated soils or void spaces made by burrowing over-excavated to firm native material and replaced with engineered fill constructed as recommended in the project Geotechnical Report. Excavations for removal of the above items shall be backfilled with engineered fill. Any wells not to remain shall be abandoned in accordance with the requirements of the County of Fresno Environmental Health Department.
- 3. After stripping the site and performing any necessary removals indicated above, the exposed surface (in areas of overexcavation or stripped surface in areas to receive fill) shall be scarified to a depth of 6 inches, uniformly moisture conditioned to at or near optimum be performed during or subsequent to wet weather, near-surface site soils may be significantly above optimum moisture content. These conditions could hamper equipment maneuverability and efforts to compact site soils to the recommended compaction criteria. Disking to aerate, chemical treatment, replacement with drier material, stabilization with a geotextile fabric or grid, or other methods may be required to reduce excessive soil moisture and facilitate earthwork operations. Any consideration of chemical treatment (e.g. lime) to facilitate construction would require additional soil chemistry evaluation and could affect
- 4. All engineered fill soils shall be nearly free of organic or other deleterious debris and less used as Engineered Fill provided they contain less than 3 percent organics by weight (ASTM and tested by the project Geotechnical Engineer prior to being transported to the site.
- Soils used for engineered fill shall be uniformly moisture-conditioned to at least the optimum moisture content, placed in horizontal lifts less than 8 inches in loose thickness, and compacted to at least 90 percent relative compaction. Disking and/or blending may be required to uniformly moisture-condition soils used for engineered fill.

- 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. Actual soil conditions which deviate from that shown in the test borings shall be reported to the Project Geotechnical Engineer immediately.
- 2. See project Geotechnical Investigation for compaction, fill, backfilling, and site preparation requirements and procedures.
- 3. Excavate all foundations to required depths into compacted fill or natural soil.
- A. All foundation excavations shall be inspected and approved by the project Geotechnical Engineer, prior to forming and placement of reinforcing and/or concrete.
- B. Foundation excavations shall be cut square and smooth with firm level bottoms. C. Care shall be taken not to over-excavate foundations at lower elevations and prevent disturbing soils around higher elevations.
- 4. Footings shall be poured in neat excavations, without side forms whenever possible.
- Moisten sides and bottom of excavations several times prior to concrete placement.
- 6. Foundations shall not be poured until all required reinforcing bar, sleeves, inserts, conduits, pipes, formwork, etc. are properly placed and inspected by the Authority Having Jurisdiction.
- 7. De-water footing excavations and foundation block-outs to maintain dry working conditions.

- All reinforcing bar shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 ($f_v = 60 \text{ ksi}$), unless noted otherwise.
- Reinforcing bar shall not be welded, unless noted or detailed otherwise.

A. Grade 40 ($f_v = 40$ ksi) may be used for #3 bars and smaller.

- To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices shall be provided. Placing of reinforcement shall conform to ACI 318-14 Section 26.6.2.
- 4. Shop drawings for fabrication of any reinforcing bar shall be provided by the Contractor and submitted to the Engineer of Record for their review and approval, prior to fabrication.
- 5. Refer to typical details for minimum splice length and minimum radius of bend for reinforcing bar.
- All reinforcing bar splices shall be staggered 24", unless noted or detailed otherwise.
- 7. All reinforcing bar bends shall be made cold.
- 8. Fabrication, erection and placement of reinforcing bar shall conform to Concrete Reinforcing Steel Institute Manual of Standard Practice.
- 10. Reinforcing bar shall be clean of rust, grease or other material likely to impair bond.

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

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

- 1. Shop Drawings or Contractor Submittals should be provided for the fabrication (or 2. Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
 - 3. All concrete work shall comply with CBC Chapter 19 and ACI 318-14 and latest edition of ACI Manual of Concrete Practice.
 - 4. Special Inspection (as required or specified) shall conform to CBC Chapter 17.

 - 6. Aggregates shall conform to ASTM C33; provide aggregates from a single source.
 - 7. Water shall conform to ASTM C94 and be potable.
 - All splices are to be Class B unless specifically noted otherwise.
 - 9. Minimum concrete cover over reinforcing bar shall be:
 - Concrete cast against and permanently exposed to earth or weather Concrete placed against forms, but exposed to earth or weather Slabs, wall & joists, not exposed to earth or weather 3/4" Beams, girders & columns, not exposed to earth or weather 1½"

STRUCTURAL DESIGN VALUES

10. Reinforcing bars larger than #8 are not permitted unless noted otherwise.

(CONT.) CONCRETE

- 11. Location of all construction joints, other than specified, shall be approved by Architect/Engineer of Record prior to pouring. Construction joints shall be thoroughly air and water cleaned and heavily roughened so as to expose coarse aggregates. All surfaces to receive concrete shall be maintained continuously wet at least three hours in advance of
- 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.
- animals, undocumented fill, or other disturbed soil are encountered, they shall be 13. The Contractor shall obtain approval from Architect/Engineer of Record prior to placing sleeves, pipes, ducts, chases, coring and openings on or through structural concrete beams, walls, floors and roof slabs, unless specifically detailed or noted. All pipes or conduits passing through concrete members shall be sleeved with standard steel pipes. See typical detail for
 - 14. Vibrate all concrete (including slabs on grade) as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
- moisture content and compacted to the requirements for engineered fill. Shall site grading 15. Formwork design and removal shall conform to ACI 318-14 Section 26.11. Remove forms in

accordance with the following minimum sch	nedule:
Side forms of footings	Minimum 48 hours
Edge forms of slab on grade	Minimum 24 hours
Wall/Retaining Wall forms	72 hours & 70% of design strength
Column forms	72 hours & 70% of design strength
Elevated beams and slabs	14 days & 80% of design strength

- than 3 inches in maximum dimension. The native soil materials, exclusive of debris, may be 16. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
- D-2974). Any imported fill materials, if any, to be used for engineered fill shall be sampled 17. Concrete shall be maintained in a moist condition for a minimum of 5 days after placement or concrete surfaces shall be cured with liquid membrane-forming curing compound conforming to ASTM C309, Type 1, Class A. Curing compound shall be approved by the
 - 18. The Contractor may use concrete admixtures as a construction means and methods to execute Construction Documents. Use of admixture is solely the responsibility of the
 - 19. Concrete mix designs shall be prepared by the concrete supply plant. Each mix design shall be submitted with current supporting data to the Engineer of Record for review and approval. Each mix design shall be stamped and signed by a Civil or Structural Engineer licensed in the state of the project jurisdiction.
 - 20. Only one grade of concrete shall be allowed on project site at any one time.
 - 21. Unless noted otherwise, construction and control joints shall be provided in all concrete slabs, and shall be located such that the area within joints does not exceed 375 sq. ft., and is A. For all structural slabs (suspended or on grade) where Architecturally exposed conditions are desired, the Contractor shall provide control joint layout for review by
 - Architect and Engineer of Record. 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 at foundation). Reinforcing bars shall extend a minimum of 24" past edge of opening.
 - 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. Do not "hickey" bars. All dowels shall be
 - 24. Provide a minimum of 2-#5 continuous horizontally at tops of walls and vertically at ends of walls, unless noted otherwise.
 - 25. Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1705.3) made by a testing laboratory approved by the Authority Having Jurisdiction.
 - 26. Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-14 Section 26.54 and ACI 306R-16.

27. Concrete placed during hot weather shall conform to ACI 318-14 Section 26.5.5 and ACI

- 28. Conduits and sleeves placed within structural concrete shall not be tied directly to structural
- A. 1" clear distance shall be maintained between conduits/sleeves and reinforcing bar. B. Do not run conduit in slabs or in concrete filled metal decking uniless the layout has been approved by the Engineer of Record

All values reported are unfactored and strength level, unless noted otherwise Gravity Design Data Value Dead Loads: 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 Live Loads: Roof Live Load (Reducible) 20 psf Snow Loads: Ground Snow Load, P. 0 psf Deflection Criteria: Roof, Total Load L/240 Roof, Live Load L/360 Floor, Total Load L/240 Floor, Live Load L/360 Wind Design Data Value Design Wind Speed (3-sec gust), V_{ULT} 94 mph Risk Category Exposure Category ± 0.18 Applicable Internal Pressure Coefficient Design Wind Pressure(s) for Components & Cladding $q_z = 16.4$ (Not specifically designed by the Registered Design Professional, and to be modifie by applicable factors per ASCE 7) arthquake Design Data Value Risk Category 1.0 Importance Factor, l_e Mapped Spectral Response Accelerations $S_s = 0.62 g$ $S_1 = 0.24 \text{ g}$ Site Class Spectral Response Coefficients $S_{DS} = 0.55 g$ S_{D1}= 0.34 g Seismic Design Category Geotechnical Design Data Value Geotechnical Report prepared by: Dated: County of Fresno (Report No.T90203) April 22, 2020 1290B + Allowable Soil Bearing Pressure (DL + LL), Continuous Footing: 2290D psf Allowable Soil Bearing Pressure (DL + LL), Square Footing: 1030B + 2290D psf Design Active Pressure, Pa 32 pcf Design At-Rest Pressure, Pa 75 pcf Design Passive Pressure, P. 500 pcf Design Coefficient of Friction, f_f

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. Structural Observation does not include or waive the responsibility for the inspection required by Section 110, 1704 or other Sections of
- 2. All Structural Observation shall be provided in accordance with CBC Sections 1702
- 3. The owner shall employ the Engineer of Record to perform Structural Observation in accordance with CBC Section 1704.6. The Engineer of Record may designate another Engineer or Architect to perform Structural Observation.
- 4. The contractor shall notify this office 48-72 hours in advance of requesting a Structural Observation.
- 5. Structural Observation is required at significant construction stages and at
- completion of the structural system, as follows: A. Footing excavations completed, footing reinforcing bars in-place, embedded items in place, mechanical, plumbing and electrical items in place and prior to concrete placement Anchorage for Simpson Steel Strong-walls
- Building retaining wall footing dowels B. Slab on grade reinforcing bars in place and embedded items in place, prior to
- C. Retaining wall reinforcement in place, prior to placement of concrete/grout.
- D. Wood framing completed and plywood nailing completed, but not closed in.
- E. All structural work completed including the installation of mechanical, plumbing, and electrical items.

concrete placement.

6. The Structural Observer shall submit to the Authority Having Jurisdiction a written statement that the site visits have been made and identifying any structural deficiencies that, to the best of their knowledge, have not been resolved.

AISC	American Institute of Steel	IINI.	Titlerioi
AISC	Construction	JST.	Joist
AITC	American Institute of Timber		
,	Construction	ksi	Kips per Square Inch
AOR	Architect of Record		
APA	American Plywood Association	LL	Live Load
APPROX.	Approximate(ly)	LW	Lightweight
ASCE	American Society of Civil	LSL	Laminated Strand Lumber
, 1002	Engineers	LVL	Laminated Veneer Lumber
ARCH.	Architect, Architecture		
ASTM	American Society of Testing	MAX.	Maximum
,	and Materials	MB	Machine Bolt
ATR	All Thread Rod	MBM	Metal Building Manufacturer
AWS	American Welding Society	MECH.	Mechanical
, , , , ,	runerican Welanig Society	MSE	Mechanically Stabilized Earth
BLDG.	Building	MFR.	Manufactured, Manufacturer
BLK.	Block	MIN.	Minimum
BLKD.	Blocked	MPH	Miles per Hour
BLK'G	Blocking	MTL.	Metal
BM.	Beam		
B.O.	Bottom of	(N)	New
вот.	Bottom	NDS	National Design Specification
BRG.	Bearing	N.T.S.	Not to Scale
b/t	Between		
ω , τ	Between	O.C.	On Center
CAC	California Administrative Code	0/	Over
CANT.	Cantilever	ÓD	Outside Diameter
CBC	California Building Code	OSB	Oriented Strand Board
CIP	Cast-in-place	OSHPD	Office of State Health Planning
CJ	Control Joint		and Development
CJP	Complete Joint Penetration	OWSJ	Open Web Steel Joist
Q Q	Centerline	0	
CLG.	Ceiling	PEN.	Penetration
CLG.	Clear	PL.	Plate
CMU	Concrete Masonry Unit	PLYWD.	Plywood
COL.	Column	PJP	Partial Joint Penetration
CONC.	Concrete	psi	Pounds per Square Inch
CONN.	Connection	PSF	Pounds per Square Foot
CONST.	Construction	PSL	Parallel Strand Lumber
CONT.	Continue, Continuous	. 52	(Paralam)
CSK.	Countersink	PEMB	Pre-Engineered Metal Building
00111	Codification	PERF.	Perforated
Ø	Diameter	PTDF	Pressure Treated Douglas Fir
d	Penny	PW	Puddle Weld
DBL.	Double		r dadie Weid
DCW	Demand Critical Weld	Q.A.	Quality Assurance
DET.	Detail	Q.C.	Quality Control
DEMO	Demolition	α.σ.	Quanty control
DF	Douglas Fir	RBS	Reduced Beam Section
DIAG.	Diagonal	RDWD	Redwood
DL DL	Dead Load	REBAR	Reinforcing Bar
DSA	Division of State Architect	REINF.	Reinforcement
DWGS.	Drawings	RET.	Retaining
200.		REQ'D	Required
EA.	Each		
E.F.	Each Face	S.F.	Square Feet
ELEC.	Electric, Electrical	SHT.	Sheet
ELEV.	Elevation	SHT'G	Sheathing
EMBED.	Embedded, Embedment	SIM.	Similar
E.N.	Edge Nailing	SIP	Structural Insulated Panel
EOR	Engineer of Record	SJI	Steel Joist Institute
EQ.	Equal	SLRS	Seismic Load Resisting System
EQUIP.	Equipment	SMS	Sheet Metal Screw
E.S.	Each Side	SQ.	Square
E.W.	Each Way	SS.	Select Structural
(E)	Existing	STAGG'D	Staggered
EXP.	Expansion	STD.	Standard
EXT.	Exterior	STL.	Steel
2///-	EXECTION	SW.	Shearwall
FAB.	Fabricated	SEOR	Structural Engineer of Record
FDN.	Foundation	52011	of actaral Engineer of Necord
F.F.	Finish floor	T&B	Top and bottom
FLR.	Floor	T&G	Tongue and Groove
			,

ABBREVIATIONS

American Concrete Institute

Authority Having Jurisdiction INT.

ICF

ID

Anchor Bolt

Additional

Adjacent

Above

A.B.

ABV.

ACI

ADD'L

ADJ.

 AHJ

GALV.

GEOR

GLB

HDR.

HD.

HORIZ.

HSS

HT.

GYP. BD.

Galvanized

Gypsum Board

Glued-Laminated Beam

Hollow Steel Section

VERT.

VIF

w/c

WD.

W.P.

WSS

WT.

WWM

Concrete Footing

-Refer to Schedule

Detail Number Reference

Sheet Number Reference

Welded Steel Moment Frame

(Minimum Shearwall Length)

(Strong-Wall Length)

New 2x Stud Bearing Wall

Shearwall Reference - Refer to Schedule

Strong-Wall Reference - Refer to Schedule

Holdown Location

Reference Note

W.S.M.F.

Record

Heade

Height

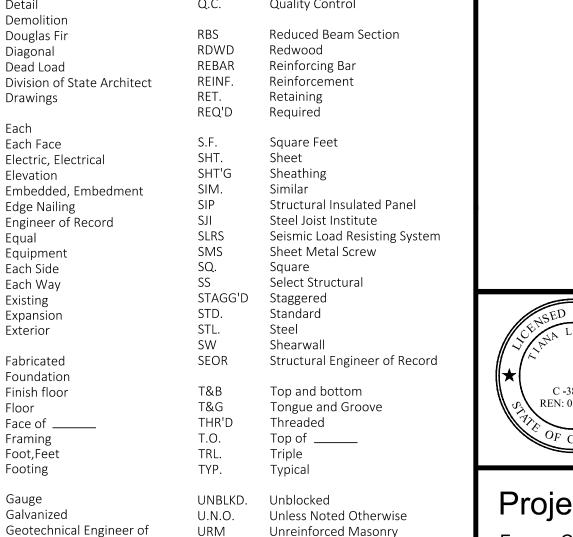
SYMBOLS

(X'-X'')

Holdown

Horizontal

Floor Face of _____ F.O. THR'D Threaded T.O. Top of _____ FRMG. Framing Foot,Feet TRL. Triple FTG. TYP. Footing Typical Gauge



International Building Code

International Code Council

Insulated Concrete Form

Inside Diameter

Inch, Inches

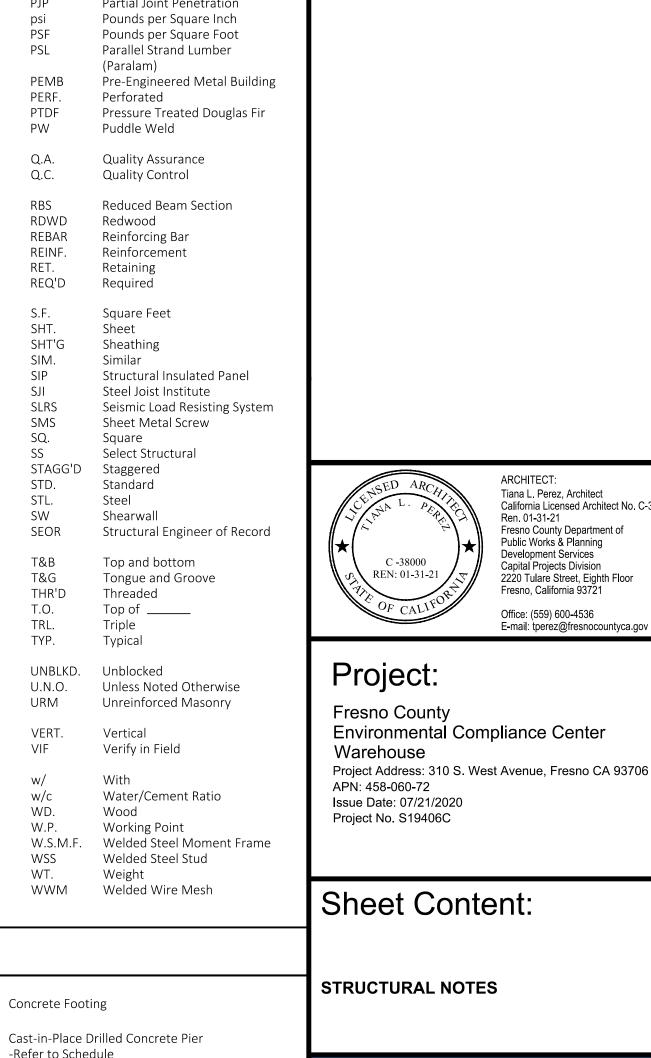
Interior

Fresno County **Environmental Compliance Center** Warehouse Proiect Address: 310 S. West Avenue, Fresno CA 93706 APN: 458-060-72

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

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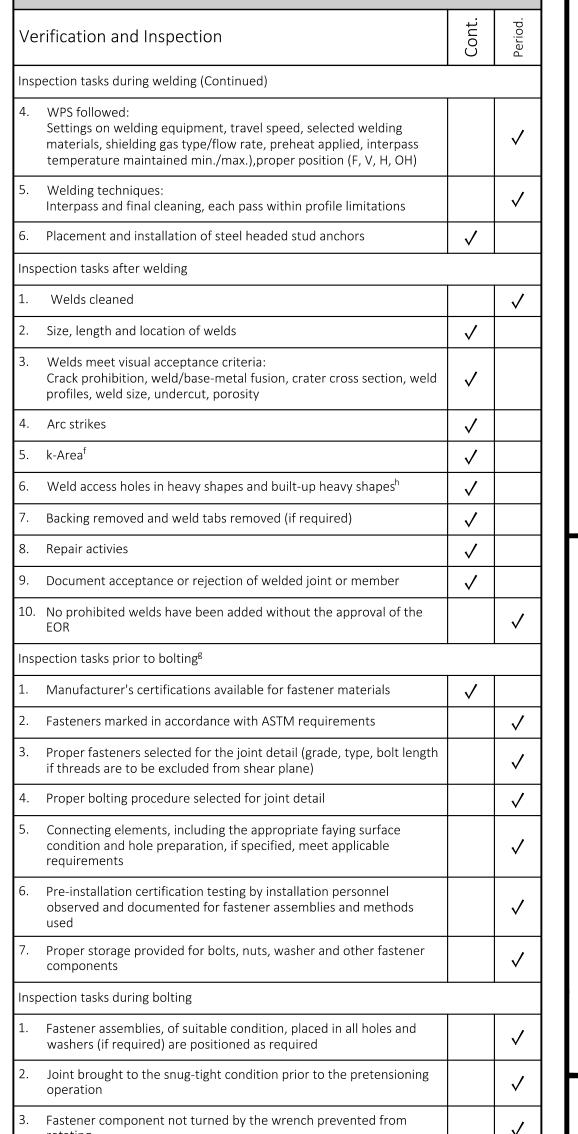
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STRUCTURAL NOTES, CONTINUED | SPECIAL INSPECTION CONCRETE CONSTRUCTIONac STEEL CONSTRUCTIONab STEEL CONSTRUCTION, CONTINUED GENERAL NOTES STRUCTURAL STEEL AND WELDING 1. All structural steel construction shall conform to AISC 360-16 and AISC 341-16. All Special Inspection shall be provided in accordance with CBC Section 1704 and Referenced | 2019 CBC A. All structural steel shall be fabricated in an approved fabrication shop. Inspection and Verification and Inspection Verification and Inspection approval of fabrication shops shall conform to CBC Section 1704.2.5. Standard | Reference Where Special Inspection is required, all inspection or testing shall be provided by 2. All structural steel shall conform to the following specifications: an "approved agency" in accordance with CBC Section 1702.1, 1703.1 and 1704.1. Inspection of reinforcing steel Required verification and inspection of steel construction including prestressing tendons, Steel Shape ASTM Specificaiton Min. Yeild Stress, F_v (ksi) ACI 318: Ch. 20, Special Inspectors shall keep records of inspections. The Special Inspector shall and placement. Material verification of structural steel, cold-formed steel deck, high-strength bolts, 1908.4 25.2, 25.3, furnish inspection reports to the Authority Having Jurisdiction, and to the Architect Angle, Channel A36 36 26.6.1 - 26.6.3 or Engineer of Record. Reports shall indicate that work inspected was done in Plates, Bars, Rounds A36 36 conformance to approved construction documents. Discrepancies shall be brought a. For structural steel, identification markings to conform to AISC to the immediate attention of the contractor for correction. If the discrepancies Wide Flange A992 50 360, or ASTM Standards Specified in approved Construction are not corrected, the discrepancies shall be brought to the attention of the Reinforcing bar welding: Documents. Manufacturer's certificate of compliance required. A53, Grade B 35 Authority Having Jurisdiction and to the Architect or Engineer of Record prior to the a. Verify weldability of completion of that phase of work. A final report documenting required Special HSS Tube A500, Grade B 46 Material verification of structural steel or cold-form steel deck: reinforcing bar other than Inspections and correction of any discrepancies noted in the inspections shall be HSS Round A500, Grade B 42 ASTM A706 submitted at a point in time agreed upon by the permit applicant and the Authority a. Identification markings to conform to ASTM standards AWS D1.4 Having Jurisdiction prior to the start of work. specified in the approved construction documents. b. Inspect single-pass fillet ACI 318: 26.6.4 3. Special Inspection shall be provided for all structural steel and welding, in accordance with welds, maximum $\frac{5}{16}$ " Special Inspectors shall be approved by local Authority Having Jurisdiction in b. Manufacturer's certified test reports. CBC Chapter 17. accordance with CBC Section 1704.2.1. c. Inspect all other welds. Inspection of high-strength bolting: 4. All structural steel shall be fabricated, erected and welded in accordance with AISC Local Authority Having Jurisdictions may require Special Inspection for "Special Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Inspection of anchors cast in Cases" in accordance with CBC Section 1705.1.1 ✓ ACI 318: 17.8.2 a. Snug-tight joints Steel Buildings and Bridges (AISC 303-16). . Contractor's responsibility: Each contractor responsible for the construction of a Inspect anchors post-installed in hardened concrete member. bd b. Pretensioned and slip-critical joints using turn-of-nut with 5. All welding shall be performed by welders with current AWS certification for weld matchmarking, twist off bolt or direct tension indicator methods of installation a. Adhesive anchors installed in horizontally or upward ACI 318: 6. No field welding permitted, unless specifically noted otherwise. c. Pretensioned and slip-critical joints using turn-of-nut without inclined orientations to 17.8.2.4 matchmarking or calibrated wrench methods of installation resist sustained tension 7. Shop drawings for the fabrication of structural steel shall be submitted to Engineer of Record for their review, prior to fabrication. Material verification of weld filler materials: b. Mechanical anchors and a. Identification markings to conform to AWS specification in the ✓ ACI 318: 17.8.2 8. No holes other than those specifically detailed shall be allowed through structural steel adhesive anchors not approved Construction Documents members. Burning of holes is not permitted. defined in 4.a. b. Manufacturer's certificate of compliance required Verifying use of required design 9. All structural steel shall be painted one shop coat and field touched-up, as necessary, with ACI 318: Ch. 19, | 1904.1, 1904.2 approved "Zinc Rich" or other high quality exterior primer. 26.4.3, 26.4.4 | 1908.2, 1908.3 Inspection of welding: 10. All bolts shall conform to ASTM A325, unless noted or detailed otherwise. a. Structural steel and cold formed steel deck: Prior to concrete placement, 11. All welding shall conform to AWS D1.1 and D1.8 specifications for welding. (E-70XX ASTM C172 fabricate specimens for strength 1) Complete and partial joint penetration groove welds ASTM C31 tests, perform slump and air 1908.10 ACI 318: 26.5 content tests, and determine 2) Multi-pass fillet welds 26.12 12. All headed studs (for concrete anchorage) shall be manufactured by Nelson or approved the temperature of the concrete. 3) Single-pass fillet welds $> \frac{5}{16}$ " Inspection of concrete and 13. Where fillet weld size is not indicated, use AWS minimum size, as specified in AISC 1908.6, 1908.7 4) Plug and slot welds shotcrete placement for proper ACI 318: 26.5 Specifications for Structural Steel Buildings (AISC 360-16), Section J2.2. application techniques. 5) Single-pass fillet welds < ⅓₆" 14. All butt welds to be complete joint penetration, unless noted otherwise. Verify maintenance of specified ACI 318: 26.5.3 6) Floor and roof deck welds^c 1908.9 curing temperature and - 26.5.5 15. Welder qualification requirements, welding procedure and welding electrodes for all techniques. structural steel (except structural sheet steel as outlined in the steel deck section) shall b. Reinforcing steel:^d conform to CBC Sections 1705.2 and 2204.1. Inspection of prestressed concrete: 1) Verification of weldability of reinforcing steel other than ASTM A706. 16. Provide hot dip galvanizing or 3" minimum concrete cover around all structural steel below a. Application of prestressing grade. forces 2) Reinforcing steel resisting flexural and axial forces in ACI 318: 26.10 intermediate and special moment frames, and boundary b. Grouting of bonded 17. Structural steel embedded into concrete or masonry shall be unpainted. elements of special structural walls of concrete and shear prestressing tendons. reinforcement. 18. ASTM A1852 bolts are an acceptable substitution for A325 bolts at concealed connections. ACI 318: 26.9 3) Shear reinforcement concrete members. METAL BUILDING SYSTEM 4) Other reinforcing steel Verification of in-situ concrete strength, prior to stressing of 1. The metal building system as described within these notes, plans and details shall be Inspection of steel frame joint details for compliance: ACI 318: tendons in post-tensioned designed and manufactured by -----, or equivalent as approved by the Engineer of 26.11.12 concrete and prior to removal of shores and forms from beams a. Details such as bracing and stiffening and structural slabs. 2. Shop drawings and stamped calculations shall be submitted to the Authority Having b. Member locations Inspect formwork for shape, Jurisdiction and the Engineer of Record for their review, prior to fabrication. Calculations ACI 318: shall be stamped and signed by a Civil or Structural Engineer licensed in the state of the location and dimensions of the c. Application of joint details at each connection 26.11.1.2 (b) concrete member being formed project jurisdiction. nspection tasks prior to welding Notes: Concrete Construction 3. The metal building system shall consist of the following components (but not limited to): Welder qualification records and continuity records A. Structural steel rigid frames a. Where applicable, see also CBC Section 1705.12, Special Inspections for seismic B. Lateral (wind/seismic bracing systems, perpendicular to steel rigid frames) Welding procedure specifications (WPSs) available

Ve	rification and Inspection	Cont
Insp	ection 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	_
Insp	pection tasks after welding	
1.	Welds cleaned	
2.	Size, length and location of welds	_
3.	Welds meet visual acceptance criteria: Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity	·
4.	Arc strikes	_
5.	k-Area ^f	_
6.	Weld access holes in heavy shapes and built-up heavy shapes ^h	
7.	Backing removed and weld tabs removed (if required)	\ \ \
8.	Repair activies	
9.	Document acceptance or rejection of welded joint or member	_
10.	No prohibited welds have been added without the approval of the EOR	
Insp	pection tasks prior to bolting ^g	
1.	Manufacturer's certifications available for fastener materials	
2.	Fasteners marked in accordance with ASTM requirements	
3.	Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	
4.	Proper bolting procedure selected for joint detail	
5.	Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	
6.	Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used	
7.	Proper storage provided for bolts, nuts, washer and other fastener components	
Insp	pection 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	
Insp	pection tasks after bolting	
1.	Document acceptance or rejection of bolted connections	
Not	es: Steel Construction	<u> </u>
	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 be welder who has welded a joint or member can be identified. Stam shall be the low-stress type.	
	f. When welding of doubler plates, continuity plates or stiffeners ha performed in the k-area, visually inspect the web k-area for cracks inches of the weld	
	g. All methods of installation for high strength bolts shall require ver pre-tension by a Skidmore-Welhelm calibrator for each batch or s	



Group A

(A325, etc.)

12

19

28

103

Group B.

(A490, etc.)

15

35

49

80

102

121

148

h. After rolled shapes and built-up heavy shapes are welded, visually inspect the

used (see minimum pre-tension chart below).

weld access hole for cracks

Minimum Bolt Pretension (kips)

Bolt size inches

½" Diameter

⅓" Diameter

¾" Diameter

⅓" Diameter

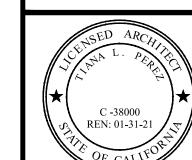
1" Diameter

1⅓" Diameter

1¼" Diameter

1¾" Diameter

1½" Diameter



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Sheet Content:

STRUCTURAL NOTES

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor

Fresno, California 93721

Sheet No.:

b. 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

Manufacturer certifications for welding consumables available

Joint preparation, dimensions, cleanliness, tacking, backing type

Material identification (type/grade)

Configuration and finish of access holes

Control and handling of welding consumables:

Wind speed within limits, precipitation and temperature

Dimensions, cleanliness, tacking

Fit-up of groove welds (including joint geometry):

Welder identification system^e

Fit-up of fillet welds:

Check welding equipment

spection tasks during welding

Packaging, exposure control

Environmental conditions:

No welding over cracked tack welds

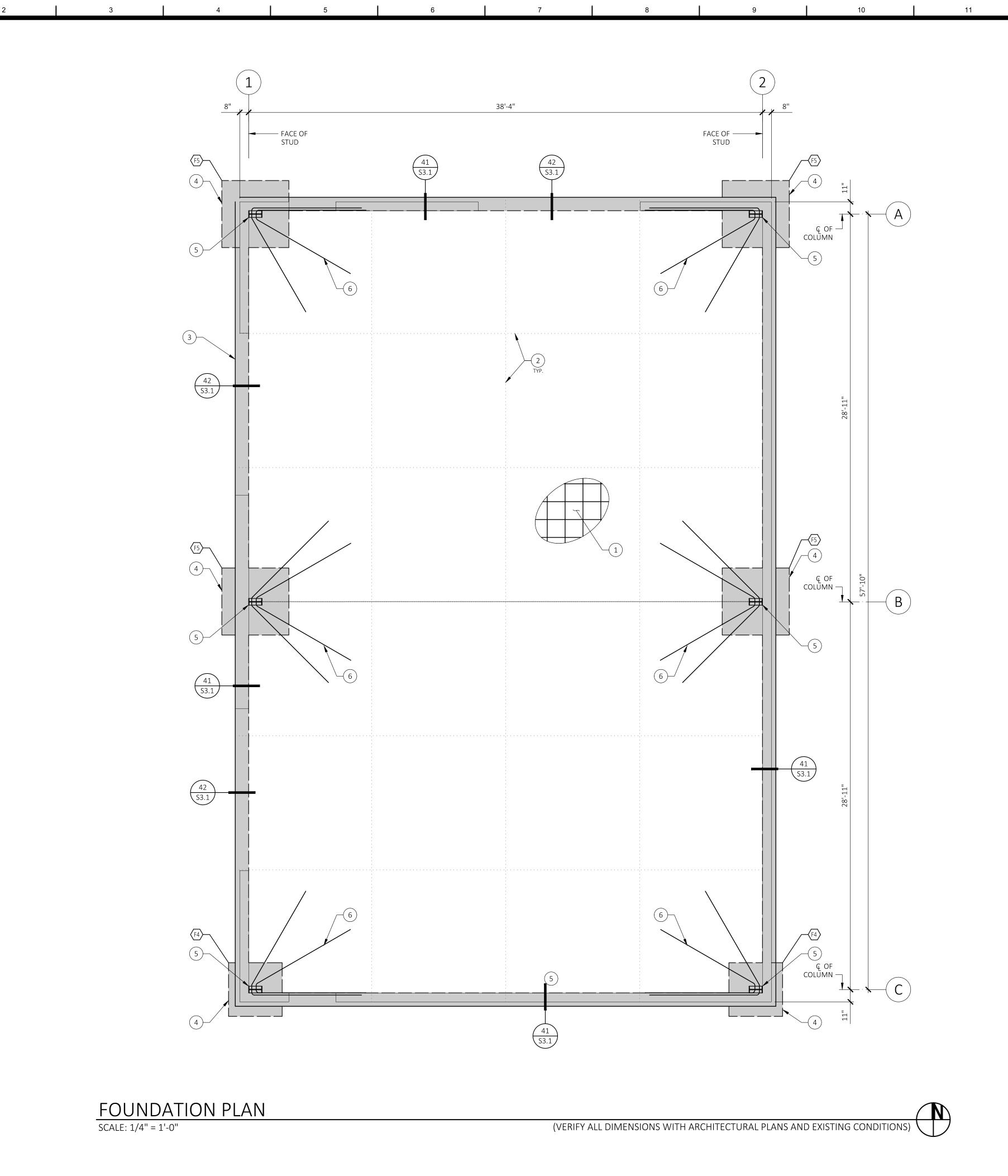
c. CBC Section 1705.3 and Table 1705.3

prior to the commencement of the work.

d. See Special Cases Special Inspection for more requirements

5.	All welding shall be performed by welders with current AWS certification for weld procedures used.	Main Lateral-Force-Resisting System, listed in the Statement of Speci shall submit a written statement of responsibility to the Author Jurisdiction and the owner prior to the commencement of work on the same parts of the commencement of work on the same parts of the commencement of work on the same parts of the commencement of work on the same parts of the commencement of the commenc	ority H	Having em or
6.	No field welding permitted, unless specifically noted otherwise.	component. The contractor's statement of responsibility shall contain the A. Acknowledgement of awareness of the special requirements contains.		
7.	Shop drawings for the fabrication of structural steel shall be submitted to Engineer of Record for their review, prior to fabrication.	statement of special inspections; B. Acknowledgement that control will be exercised to obtain conforthe construction documents approved by the Authority Having Juri		
8.	No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.	 C. Procedures for exercised control within the contractor's organ method and frequency of reporting and the distribution of the report. D. Identification and qualifications of the person(s) exercising such 	nizatioi orts; ar	n, the nd
9.	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.	their position(s) in the organization.7. Refer to Special Inspection requirements by other disciplines not includ	od hor	oin
10.	All bolts shall conform to ASTM A325, unless noted or detailed otherwise.	SOILS ^a	eu ner	5111.
11.	All welding shall conform to AWS D1.1 and D1.8 specifications for welding. (E-70XX Electrodes).	SOILS		U
12.	All headed studs (for concrete anchorage) shall be manufactured by Nelson or approved equal.	Verification and Inspection	Cont.	Periodic
13.	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.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		✓
14.	All butt welds to be complete joint penetration, unless noted otherwise.	Verify excavations are extended to proper depth and have reached proper material.		/
15.	Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel as outlined in the steel deck section) shall	3. Perform classification and testing of compacted fill materials.		✓
	conform to CBC Sections 1705.2 and 2204.1.	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	√	b
16.	Provide hot dip galvanizing or 3" minimum concrete cover around all structural steel below grade.	5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		/
17.	Structural steel embedded into concrete or masonry shall be unpainted.	Notes: Soils	ached during erify and the rd, Special Inspect	
18.	ASTM A1852 bolts are an acceptable substitution for A325 bolts at concealed connections.	a. CBC Section 1705.6 and Table 1705.6		
ME	TAL BUILDING SYSTEM	b. With the approval of the Authority Having Jurisdiction and the recommendation of the Geotechnical Engineer of Record, Special		
1.	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.	grading operations may be periodic per CBC Section 1704.2, Excel SPECIAL CASES	ption 1	
2.	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.	Verification and Inspection	Cont.	Periodic
3.	The metal building system shall consist of the following components (but not limited to): A. Structural steel rigid frames	Adhesive anchors (Epoxy)	•	
	B. Lateral (wind/seismic bracing systems, perpendicular to steel rigid frames)C. Roof purlins/eavesD. Roof bracing systems	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)	✓	
	E. Roof deckingF. Wall framing systems	2. All other installations of adhesive anchors.		√
	G. Anchor bolts, and all other hardware required for assembly, bracing and securing.	Mechanical anchors		
4.	The Contractor shall take care to coordinate between metal building system and other framing systems.	1. Inspection of anchors installed in hardened concrete.		√
5.	The Contractor shall notify Engineer of Record of any discrepancies between metal building system and other framing systems.			
6.	Prior to excavation of foundation system, contractor shall verify anchor bolt size & locations with metal building system			

with metal building system.



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)
- Prior to the Contractor requesting a Building Department Foundation Inspection, the project Geotechnical Engineer shall advise the Building Official in writing that:
 The building pad was prepared in accordance with the approved
 - construction documents and project Geotechnical Engineer's recommendations
 - The utility trenches have been properly backfilled and compacted
 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 \$3.1
- H. For typical intersecting footing configuration(s), see detail(s) 14/S3.1
- I. For typical pipe through footing, see detail 11/S3.1

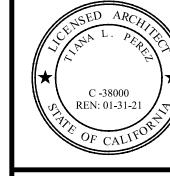
FOUNDATION REFERENCE NOTES:

- 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. LLN O. on plan, see detail 43/S3.1 for exterior footing
- C. U.N.O. on plan, see detail 43/S3.1 for exterior footing construction and detail 52/S3.1 for interior footing construction
- Steel frame column and bolt group per Metal Building Manufacturer (MBM)
 - A. See anchor bolt plan by MBM for placementB. Embed anchor bolts 27" 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

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Project:

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

ARCHITECT: Tiana L. Perez, Architect

Ren. 01-31-21
Fresno County Department of
Public Works & Planning
Development Services

Office: (559) 600-4536 E-mail: tperez@fresnocountyca.gov

Capital Projects Division 2220 Tulare Street, Eighth Floor Fresno, California 93721

California Licensed Architect No. C-38000

Sheet Content:

FOUNDATION PLAN

Fresno County Department of Public Works and Planning Capital Projects

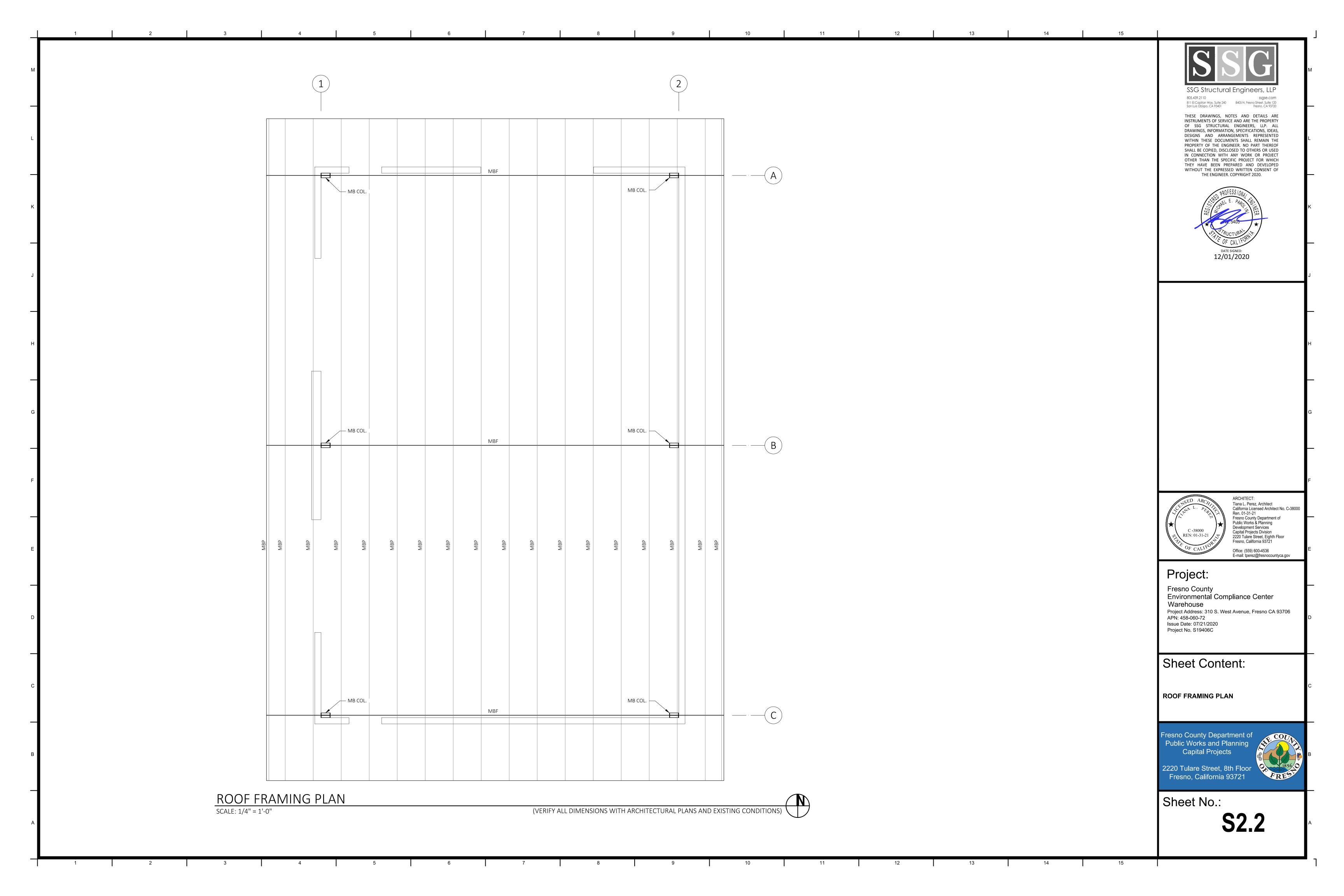
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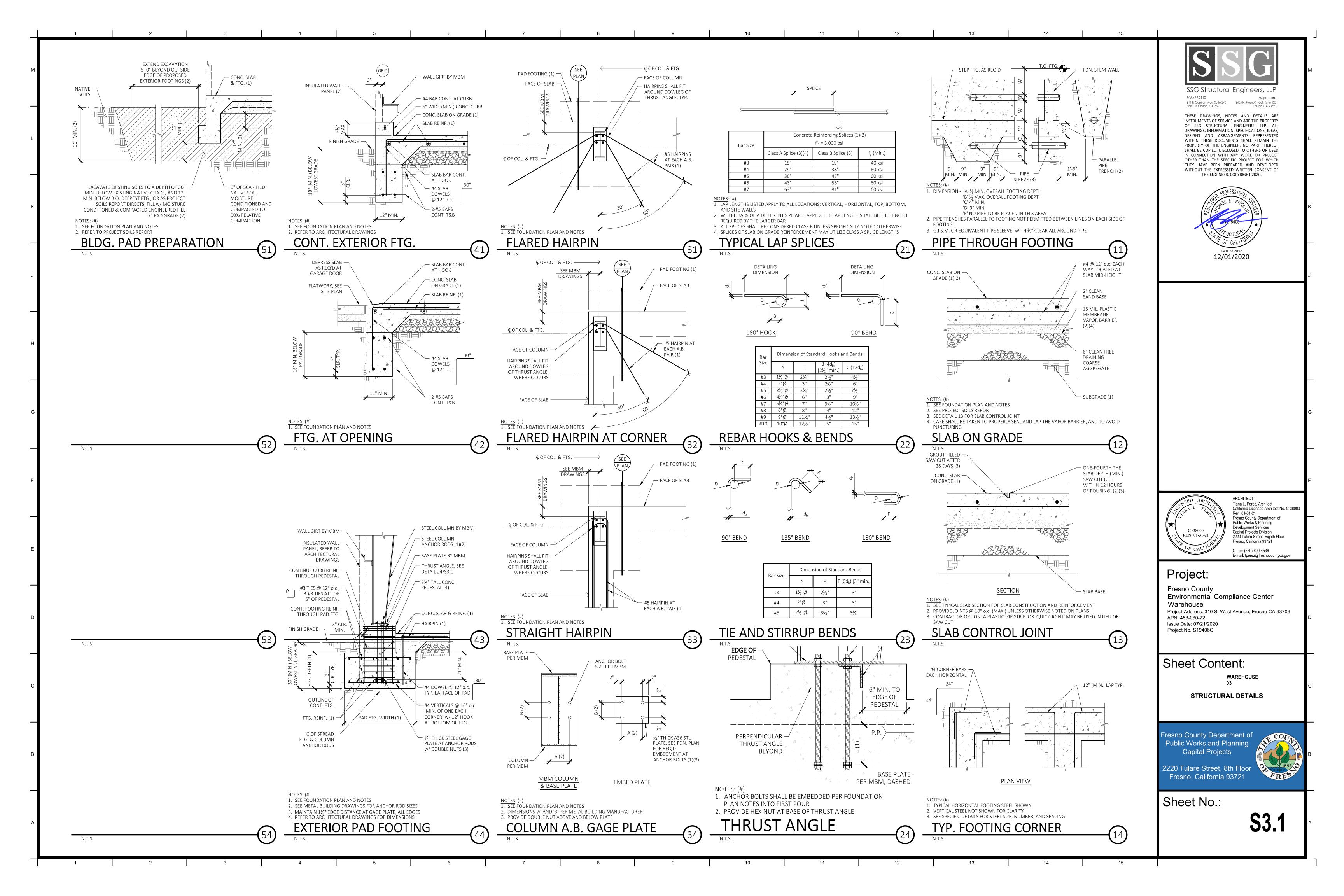
Sheet No.:

S2.1

Fo	ooting Size and	Reinforcing		able Rea (Service					
Mark	Dimensions	Reinforcing	Vertical [k]	Upli	Uplift [k]				
IVIdIK	Diffiensions	Keimorchig	Vertical [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 ENGNEER OF RECORD PRIOR TO PLACING FOOTINGS.





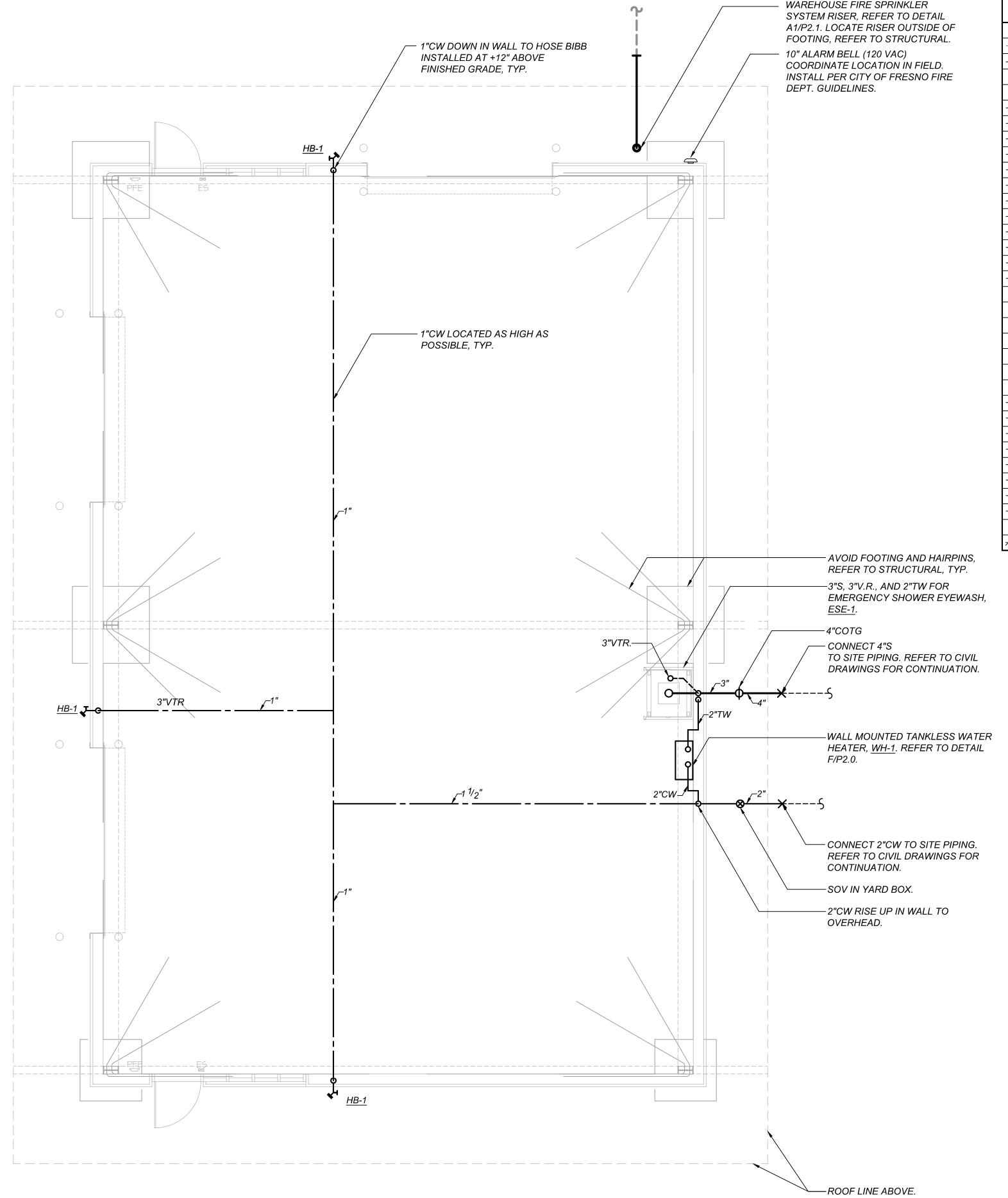
GENERAL PLUMBING NOTES:

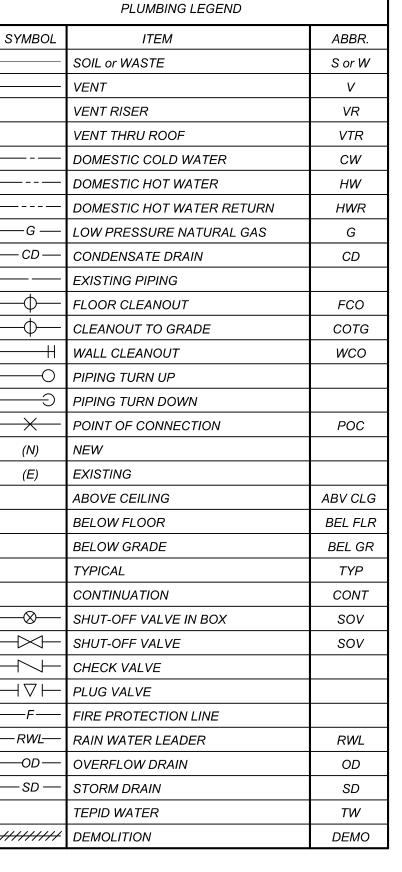
- 1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WOULD NOT COMPLY WITH SAID TITLE 24, CALIFORNIA 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.
- 2. 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 MECHANICAL CODE, PART 4, THEE 24 COI 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

- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.
- 8. INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
- 9. 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.
- 10. BACKFLOW PREVENTER SHALL BE INSTALLED AT THE MINIMUM HEIGHT ABOVE FINISH GRADE AS ALLOWED BY GOVERNING AUTHORITY.
- 11. 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.
- 12. 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.









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Fresno County Department of Public Works & Planning

California Licensed Architect No. C-38000

ARCHITECT:

C -38000
REN: 01-31-21

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Project:

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

Sheet Content:

WAREHOUSE BUILDING PLUMBING PLAN

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

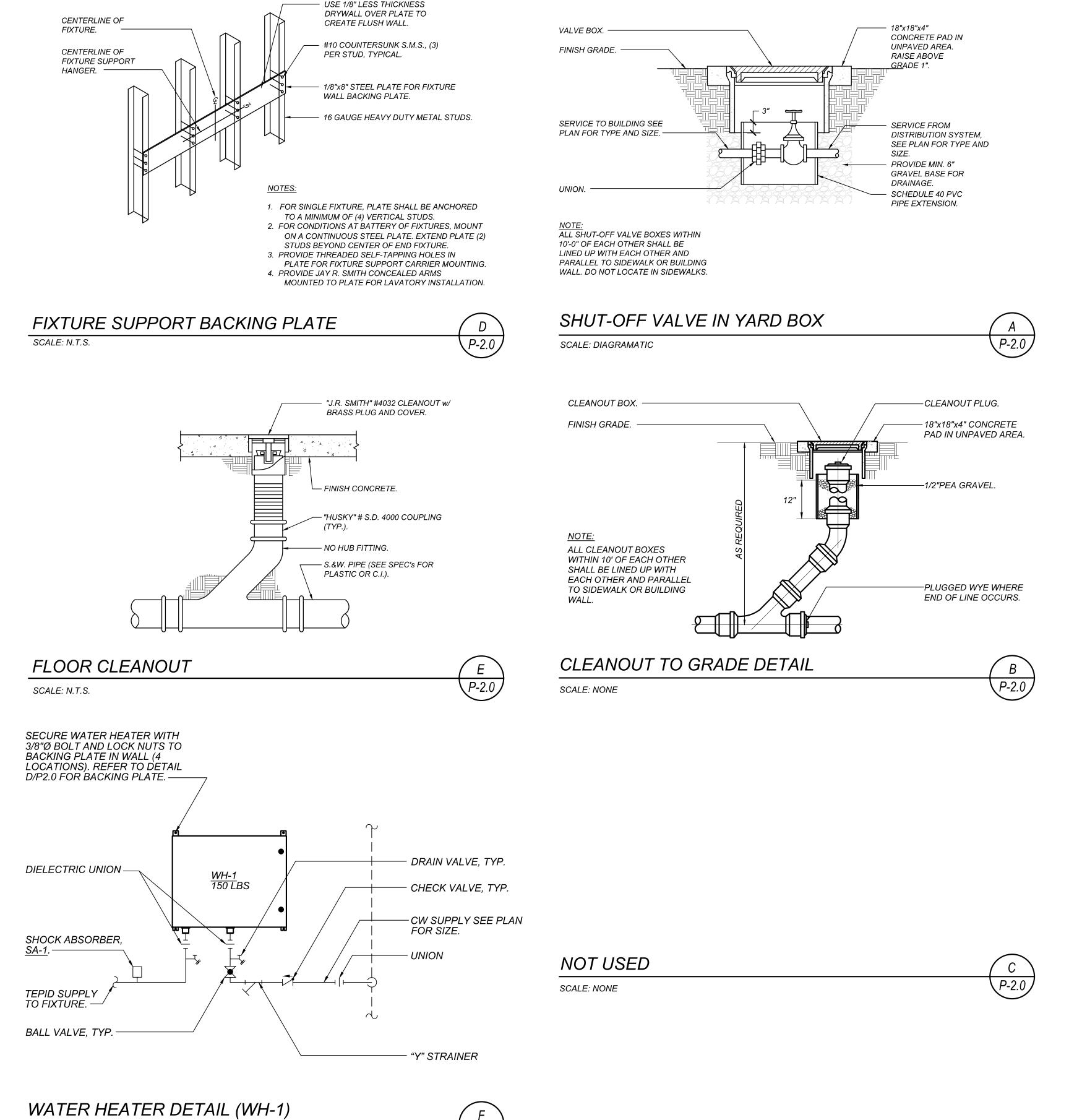
Sheet No.

P1.3

Plotted on: XX.XX.20XX

1 WAREHOUSE BUILDING PLUMBING PLAN

		PLU	JMBING FIX	EQUIPME	NT SCHEDULE	
MARK	FIXTURE		CONNECT	ION SIZES		DESCRIPTION
WATER	TIXTORE	S or W	V	CW	HW	DESCRIPTION
<u>SA-1</u>	SHOCK ABSORBER	ı	1	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.
<u>ESE-1</u>	EMERGENCY SHOWER EYEWASH	3"	3"	1"	-	HAWS #6506WC BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH BOOTH, REINFORCED MOLDED FIBERGLASS BOOTH, GALVANIZED STEEL FLOOR GRATE, CHROME PLATE BRASS STAY-OPEN SHOWER AND EYEWASH BALL VALVES, AND UNIVERSAL SIGNS. ANCHOR SHOWER BOOTH TO CONCRETE SLAB WITH (4) 1/2"Ø x 3-1/4" MIN. EMBED. PER ESR-1917. HILTI KWIK BOLT TZ CONCRETE ANCHORS.
<u>HB-1</u>	HOSE BIBB	-	-	3/4"	-	WOODFORD #B75 (OR MIFAB EQUAL) RECESSED WALL HOSE B0X WITH LOCKING DOOR, VACUUM BREAKER, LOOSE TEE KEY HANDLE, SCREWDRIVER STOP. SELF DRAINING CAST STAINLESS STEEL FOR NON-FREEZE AREAS.
<u>WH-1</u>	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



P-2.0

SCALE: NONE

12

13



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Project:

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

Sheet Content:

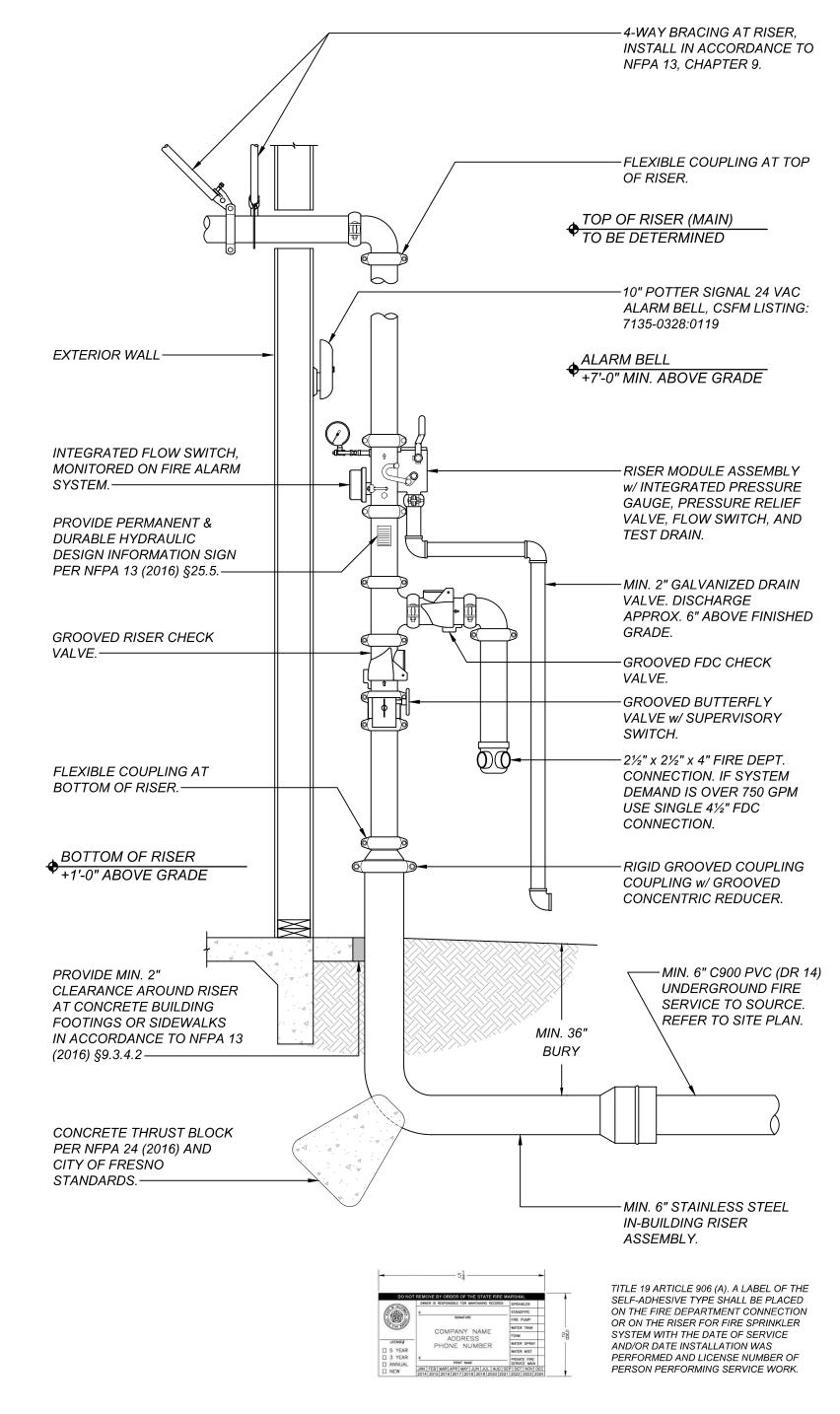
WAREHOUSE BUILDING SCHEDULES AND DETAILS

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No.

P2.0



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11

12

13

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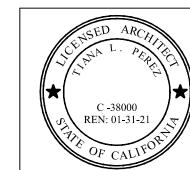
RISER NOTES:

- 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. LOCATION OF 2" SYSTEM DRAIN TO BE COORDINATED WITH GENERAL CONTRACTOR. DRAIN PIPE AND FITTINGS SHALL BE GALV.
- 7. FIRE RISER ROOM SHALL COMPLY WITH CBC (2016) 901.3 PER CFC (2016) SECTION 509.1 FIRE EQUIPMENT ROOMS SHALL BE IDENTIFIED IN AN APPROVED MANNER. APPROVED SIGNS SHALL BE DURABLE, PERMANENT, AND VISIBLE.





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File Path: G:Capital \ Projects \ Building Numbers \ American
Ave Landfill \ T90203 Environmental Compliance Center\ 00

Sheet Content:

WAREHOUSE BUILDING RISER DETAIL

FOR REFERENCE ONLY

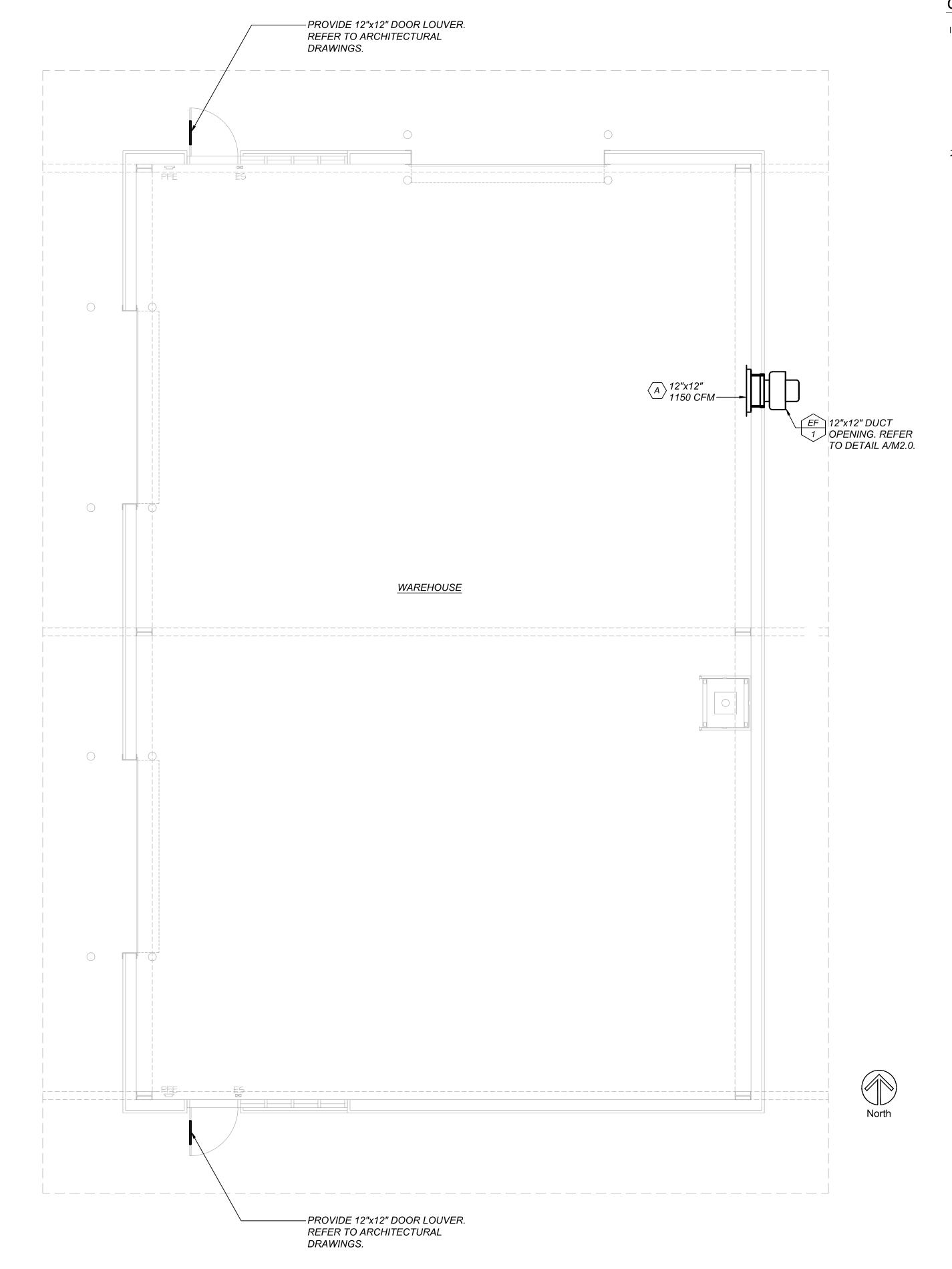
Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No.

P2.1

WAREHOUSE EXTERIOR RISER DETAIL . FOR REFERENCE ONLY



GENERAL PROJECT NOTE:

- 1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- 2. AS REQUIRED BY SECTION 7-125(B)92), PART 1, TITLE 24.

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

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

CBC CALIFORNIA BUILDING CODE
CPC CALIFORNIA PLUMBING CODE
CMC CALIFORNIA MECHANICAL CODE

CEC CALIFORNIA ELECTRICAL CODE CFC CALIFORNIA FIRE CODE C.C.R. TITLE 19, CHAPTER 1 (CSFM)

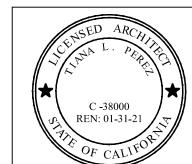
C.C.R. TITLE 24, PART 1, ADMIN. REGULATION, PART 2, CALIFORNIA BUILDING CODE, AND DSA/SSS

UBCS UNIFORM BUILDING CODE STANDARDS





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Project:

Fresno County
Environmental Compliance Center
Phase 3 - Warehouse Building
Project Address: 310 S. West Avenue, Fresno CA 93706
APN: 458-060-72

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File Path: G:Capital \ Projects \ Building Numbers \ American
Ave Landfill \ T90203 Environmental Compliance Center\ 00
2018 ECC

Sheet Content:

WAREHOUSE BUILDING MECHANICAL PLAN

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No.

M1.0

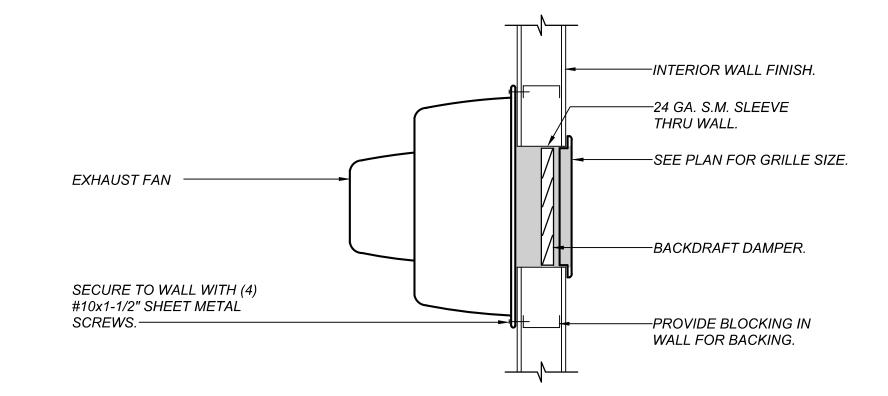
41 WAREHOUSE

	CONDITIONING LEGEND	455
SYMBOL	ITEM	ABB
$\overline{}$	ROUND DUCT	Ø
	FLAT OVAL DUCT	0
	SHEET METAL DUCT	_
$\overline{\Box}$	ACOUSTIC LINING FOR	
	DUCT OR GRILLES	(L)
	DUOT MUST MICH A TION	
	DUCT W/EXT INSULATION & GALV. SM SUNSHIELD	-
	SUPPLY AIR DUCT DROP	_
	RETURN AIR DUCT DROP	
	EXHAUST DUCT AIR DROP	_
\square	SUPPLY AIR DUCT RISE	_
	RETURN AIR DUCT RISE	_
	EXHAUST AIR DUCT RISE	_
	TURNING VANES	TV
	EXTRACTOR	_
	VOLUME CONTROL DAMPER	
	W/LOCKING QUADRANT	VCL
		00
	OPPOSED BLADE DAMPER	OBL
	BACKDRAFT DAMPER	BDI
	VOLUME CONTROL DAMPER	VCF
	W/ REMOTE REGULATOR	ļ
	FIRE/SMOKE DAMPER	F/SI
& '■	WITH ACCESS PANEL	7701
///////	FIRE DAMPER WITH	FD
& 📤	ACCESS PANEL	, ,
///////	SMOKE DAMPER WITH	SD
& ◆	ACCESS PANEL	30
0514	CUBIC FEET OF AIR	054
CFM	PER MINUTE	CFN
M	EMS MOTORIZED	
Ψ	DUCT DAMPER/PIPE	_
	VALVE ACTUATOR	
\bigcirc	THERMOSTAT @ +4'-0"	T'ST/
	TOP OF BOX	
Θ	HUMIDISTAT @ +4'-0"	H'ST.
	TOP OF BOX	
©	CO ₂ SENSOR @ +4'-0"	СО
$\underline{\hspace{0.05cm}}$	TOP OF BOX	
[-]	EMS TEMPERATURE	
T	SENSOR @ +4'-0" TOP	_
	OF BOX	
\overline{H}	EMS HUMIDITY SENSOR @	_
<u></u>	+4'-0" TOP OF BOX	
0	EMS CØ SENSOR @	
U	+4'-0" TOP OF BOX	co
	EMS STATIC PRESSURE	
SP	SENSOR	SP
	EMS DIFFERENTIAL	
DP	PRESSURE SENSOR	DF
CS	EMS CURRENT SENSOR	CS
	DIRECTION OF FLOW	_
<u>, , , , , , , , , , , , , , , , , , , </u>	SUPPLY AIR	SA
	RETURN AIR	
P		RA
	EXHAUST AIR	EA
, 2	OUTSIDE AIR	OS/
<u>ڪ</u>	PIPE/DUCT TURN DOWN	
\bigcup	PIPE/DUCT TURN UP	
-x -	POINT OF CONNECTION	PO
	EXISTING (DESIGNATED)	(E)
	NEW (DESIGNATED)	(N)
SD	DUCT SMOKE DETECTOR	SD
A/V]	AUDIBLE/VISUAL ALARM	A/V
		. , , , ,

☐ BYPASS TIMER

EXHAUST FAN SCHEDUL	E
DESIGNATION	Î 1
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

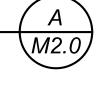
WALL BRACKET, ELECTRICAL DISCONNECT, BACKDRAFT DAMPER, BIRD SCREEN.



13

WALL EXHAUST FAN MOUNTING DETAIL

SCALE: NONE



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





7084 N. Maple Ave., Suite 101 Fresno, CA 93720 (559) 431-0101 19400 FAX (559) 431-1362



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
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:

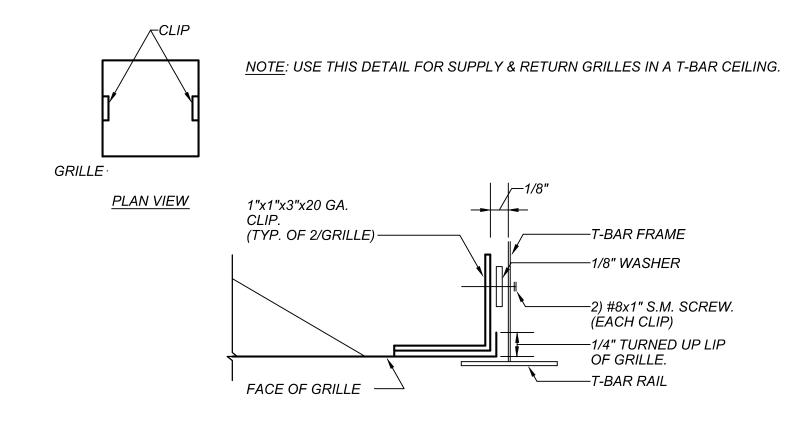
WAREHOUSE MECHANICAL SCHEDULES AND DETAILS

Fresno County Department of Public Works and Planning Capital Projects

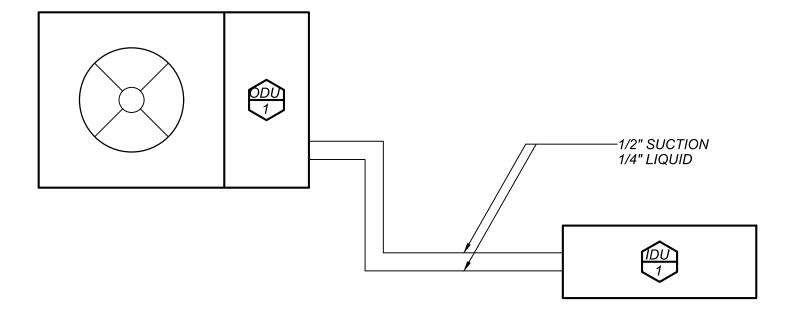
2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No.

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







REFRIGERANT PIPING DETAIL FOR ODU-1

SCALE: NONE



--1/2" SUCTION 1/4" LIQUID

M2.1)

1<u>DU</u> 2 REFRIGERANT PIPING DETAIL FOR ODU-2







Project:

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

File Path: G:Capital \ Projects \ Building Numbers \ American Ave Landfill \ T90203 Environmental Compliance Center\ 00

Sheet Content:

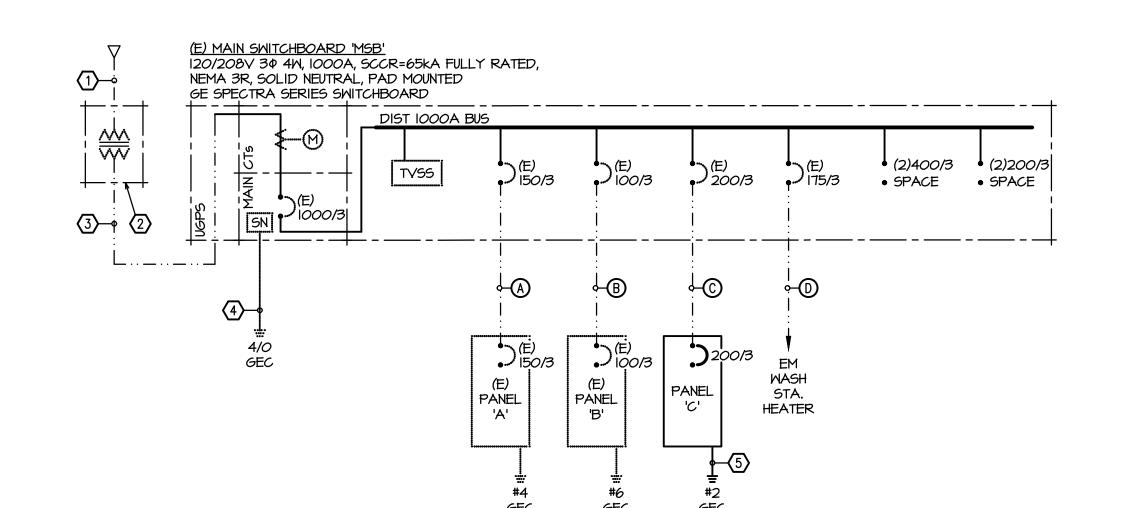
MECHANICAL SCHEDULES AND DETAILS

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor Fresno, California 93721

Sheet No.

1			Electrica				
ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:	<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>NOTES</u>	<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>NOTES</u>	
CALIFORNIA BUILDING CODE 2019		POLE WITH SINGLE AREA LUMINAIRE			SMITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM	
CALIFORNIA ELECTRICAL CODE 2019 NON RESIDENTIAL CEC ENERGY STANDARDS 2019	□●□	POLE WITH DOUBLE AREA LUMINAIRES		_	POWER PANEL	REFER TO PANEL SCHEDULE	
NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	•	POLE WITH POST TOP AREA LUMINAIRE		0	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.	
IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND	(A)	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE	9	DISCONNECT SWITCH, FUSIBLE	REFER TO MECH. PLANS & SPECS.	
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		SURFACE CEILING LIGHT		塩	MOTOR CONTROLLER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.	
INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.		RECESSED DOWN LIGHT		©	MOTOR	REFER TO MECH. PLANS & SPECS.	
THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.	Q	WALL LIGHT		⊗	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.	
THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT		FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT TO BATT PACKS	Ф	SINGLE CONVENIENCE OUTLET	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED	
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.		EXIT SIGN, CEILING (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS		AT +15" AFF TO BOTTOM OF BOX, U.O.N.		
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	<u> </u>	EXIT SIGN, WALL (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS	Φ	DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED	
COMPLETE & OPERATING SYSTEM.		DEDICATED EMERGENCY LIGHT	PROVIDE UNSWITCHED HOT TO BATT PACKS	-	QUADPLEX CONVENIENCE OUTLET	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED	
ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.	INV	INVERTER			AT +15" AFF TO BOTTOM OF BOX, U.O.N.		
ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9. WHERE SERIES COMBINATION RATINGS ARE USED FOR NEW PANELS, PROVIDE A CAUTIONARY LABEL	\$	SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE	Φ	DUPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #X7899-W	
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.	\$3	3-WAY SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE	~ *	QUADPLEX GFI CONVENIENCE OUTLET	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED	
PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT	(ф	DIMMER SWITCH, TO BE COMPATIBLE WITH	ROUGH IN WITH IG BOX PER SWITCH W/ RING,	OWE OWE	AT +15" AFF TO BOTTOM OF BOX, U.O.N.	LEVITON #X7899-W	
120/208V 30 4W PER CEC 110.26.	1	CONTROLLED FIXTURES, AT +48" AFF TO TOP OF BOX	I"C. TO ACCESSIBLE ATTIC SPACE	<u> </u>	WEATHERPROOF, GFI OUTLET	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED	
PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 30 4W PER CEC IIO.26.		WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, O-IOV DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH IG BOX PER SWITCH W/ RING, I"C. TO ACCESSIBLE ATTIC SPACE		AT +15" AFF TO BOTTOM OF BOX, U.O.N. W WEATHERPROOF IN-USE TYPE COVER	LEVITON #X7899-W	
	A	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR	ROUGH IN WITH IG BOX PER SWITCH W/ RING,	th.	DUPLEX CONVENIENCE OUTLET	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED,	
PROVIDE A PLACARD ON EACH PANELBOARD INDICATING THE LOCATION AND IDENTIFICATION OF THE FEEDER SERVING THE PANEL PER CEC 408.4(B).	Φ Ε	SWITCH, W SEPARATE EXHAUST FAN RELAY	I"C. TO ACCESSIBLE ATTIC SPACE	Ш	AT +15" AFF TO BOTTOM OF BOX, U.O.N.	LEVITON #TDR20-SIM CODE COMPLIANT MARKING REQUIRED	
PROVIDE ILLUMINATED EMERGENCY POWER PER 2016 CFC, SECTION 1006.3. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A		AT +48" AFF TO TOP OF BOX			SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR		
MINIMUM LUMINANCE OF I FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES. FIRE ALARM EQUIPMENT GUALL BE GERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS BER NERA 72 10 6 F 12. THE CIRCUIT.		DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	NLIGHT SYSTEM, ROUGH IN WITH IG BOX & RING, I"C. TO ACCESSIBLE ATTIC		QUADPLEX CONVENIENCE OUTLET, CONTROLLED	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED,	
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	(D) w	DIGITAL DIMMER SWITCH, WIRELESS, LINE VOLTAGE	nLIGHT AIR SYSTEM, ROUGH IN WITH IG BOX & RING,	"	AT +15" AFF TO BOTTOM OF BOX, U.O.N.	LEVITON #TDR20-W AND LEVITON #TDR20-52W CODE	
EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 0.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.	N H	AT +48" AFF TO TOP OF BOX	120-277V POWERED		ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	COMPLIANT MARKING REQUIRED	
WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.	E G	DIGITAL DIMMER SWITCH W INTEGRAL OCCUPANCY	NLIGHT SYSTEM, ROUGH IN WITH IG BOX & RING,				
20V AND 277V BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. SHARING NEUTRALS IS NOT ACCEPTABLE.	1	SENSOR AND PHOTOSENSOR AT +48" AFF TO TOP OF BOX	I"C. TO ACCESSIBLE ATTIC	(P)	HEAVY DUTY POWER PEDESTAL	SEE DETAIL	
EEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.		DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING,	nLIGHT SYSTEM, ROUGH IN WITH IG BOX & RING,		SPECIAL EQUIPMENT OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQ'TS W/ EQUIPMENT VENDOR	
ALL UNDERGROUND CONDUITS SHALL HAVE MINIMUM 24" COVER. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE		CONTROLLER AT +48" AFF TO TOP OF BOX	I"C. TO ACCESSIBLE ATTIC	•	26 FLOOR BOX WITH POWER FEED COVER	MAKE CONNECTION TO MODULAR FURNITURE SYSTEM	
RISERS OCCUR. WRAP GRS BELOW GRADE OR PROVIDE PVC COATED GRS. EXPOSED CONDUIT SHALL BE GRS TO 8'-O", THEN EMT ABOVE AS APPROPRIATE. UNDER NO CIRCUMSTANCE SHALL PVC CONDUIT BE INSTALLED ABOVE GRADE.		DIGITAL OCCUPANCY SENSOR W PHOTOSENSOR	nLIGHT SYSTEM #nCM PDT IO	Ţ	12" CU GROUND BUS BAR	WITH #6 GREEN GROUND WIRE TO G.E.C.	
ONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. I" TRADE SIZE.		DUAL-TECHNOLOGY CEILING MOUNT	ALCHE CYCTEM DOUGH IN WITH IC DOWN DOWN	^^^	FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.	
PROVIDE (4) I" CONDUIT STUBS FROM EACH NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.	100	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	NLIGHT SYSTEM, ROUGH IN WITH IG BOX & RING, I"C. TO ACCESSIBLE ATTIC	l ©	PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK	
COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.	((((((((((WIRELESS DIGITAL OCCUPANCY SENSOR W	PROVIDE XPOINT SBOR SENSOR INTERFACE	<u>©</u>	PUBLIC ADDRESS SPEAKER	RUN I"C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN	PROFESS/ONLY
PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS		PHOTOSENSOR. DUAL-TECHNOLOGY CEILING MOUNT		- PA	WALL MOUNTED, +120" U.O.N.	SPEAKER CABLE TO PA TERMINAL BLOCK	SOTT DAVIDO CE
OF CEC 422.31.	GW	DIGITAL GATEMAY	nLIGHT SYSTEM, PROVIDE (I) GATEWAY AT EACH BUILDING		WP OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, +120" U.O.N.	RUN I"C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK	Hardin-Da
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,	1		AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.		TO THE INCUSTRED, TIZO U.C.N.		356 Polla
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	(BR)	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (I) BRIDGE FOR EACH (6)	ِ <u>چ</u>	SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED. VERIFY HEIGHTS AT EACH LOCATION.	INTERIOR: IG J-BOX, IG RING, MODULAR PLATE, 3/4"C. TO ACCESSIBLE ATTIC SPACE. EXTERIOR: IG FLUSH BELL BOX.	Clovis, C 559.323 www.hardin-david
PART I THRU 7(c).			NLIGHT ZONES. CONNECT BRIDGE POWER SUPPLY TO	PERAS C	C=CEILING MOUNTED.	MODULAR PLATE, 3/4"C. TO ACCESSIBLE ATTIC SPACE.	
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.		DIGITAL VENINT WIRE ECC PRINCE	LOCAL LIGHTING CIRCUIT.	-CAM		PROVIDE (I) CAT6 CABLE AND DATA JACK TO EACH CAMERA PROVISION. VERIFY EXACT REQUIREMENTS PRIOR	ARCHITECT: Tiana L. Perez, Architect California Licensed Architect
THE CALIFORNIA STATE LICENSE BOARD (CSLB) "ZERO TOLERANCE POLICY" IN EFFECT FOR NON-COMPLIANT LABOR CODE		DIGITAL XPOINT WIRELESS BRIDGE	INTERFACE WITH NLIGHT SYSTEM GATEWAY			TO ROUGH-IN.	Ren. 01-31-21 Fresno County Department
SECTIONS 3099 AND 2099.2 , SECTIONS 209.0 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	(PP)	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR	NLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING	I TV	RECESSED TV BOX WITH POWER OUTLET, (2) DATA	MAKE POWER CONNECTION AND PROVIDE I 1/2"C. STUB TO	Public Works & Planning Development Services and
THE STATE OF CALIFORNIA.	1	ELV BY FIXTURE	· · · · · · · · · · · · · · · · · · ·		JACKS, HDMI AND CATV JACKS. VERIFY	EXPOSED CABLE SPACE NEAR ROOF. VERIFY HEIGHTS W	C -38000 REN: 01-31-21 Capital Projects Division 2220 Tulare Street, Eighth F Fresno, California 93721
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	₽₽E	DIMMING POWER PACK W EMERGENCY CONTROL RELAY	·	- A/	HEIGHT/LOCATION PRIOR TO ROUGH-IN.	ARCH.	Office: (559) 600-4536
AND VENT EXTINGUISHING SYSTEM, HVAC, FIRE SMOKE DAMPERS, ETC.).	1	VERIFY O-IOV, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING	AV	A/V INPUT HDMI/VGA/3.5MM AUDIO/USB JACK WALL PLATE AT +18" AFF	2G BOX, IG RING, (2) I 1/4"C. TO ATTIC SPACE. INSTALL CABLES FROM STATION	E-mail: tperez@fresnocount
NHEN 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		DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR	\$\psi\\$\dagger\$	DEVICES TO BE REMOVED	TO TV.	Project:
			INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING		EXISTING CONDUIT/WIRING TO BE DEMOLISHED		1 '
INITS PER FRESNO FIRE POLICT 401.4.	(RR)	RECEPTACLE RELAY CONTROLLED BY	NLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR	0.0	EXISTING DEVICES		Fresno County Environmental Compliance Center
	1	OCCUPANCY SENSOR	INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING.		EXISTING CONDUIT/WIRING		Warehouse Building
PROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4.			(I) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.				Project Address: 210 C Mast Avanua France CA C
ROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4. RC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.		TERMINAL CABINET	(I) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.		MIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN.	APN: 458-060-72
ROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4. RC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.		DATA OUTLET (RJ-45 CAT6) WITH 2 JACK	4-11/16 SQ. BOX, 16 RING, MODULAR		WIRING IN CONDUIT, BELOW GRADE WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.	APN: 458-060-72 Issue Date: Project No. T90203
ROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4. RC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.		DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +18" AFF, U.O.N.	4-11/16 SQ. BOX, IG RING, MODULAR PLATE, & 1 1/2"C. TO ACCESSIBLE ATTIC	LV	MIRING IN CONDUIT, BELOW GRADE MIRING IN CONDUIT, IN WALL OR CEILING LOW VOLTAGE MIRING IN ATTIC SPACE	3/4" CONDUIT MIN. TYPE PER EQUIPMENT MANUFACTURER	APN: 458-060-72 Issue Date: Project No. T90203 File Path: G:Capital \ Projects \ Building Numbers \ Ave Landfill \ T90203 Environmental Compliance C
ROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4. RC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.		DATA OUTLET (RJ-45 CAT6) WITH 2 JACK	4-II/I6 SQ. BOX, IG RING, MODULAR PLATE, & I I/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END.		MIRING IN CONDUIT, BELOW GRADE MIRING IN CONDUIT, IN WALL OR CEILING LOW VOLTAGE MIRING IN ATTIC SPACE CONDUIT RISER	3/4" CONDUIT MIN. TYPE PER EQUIPMENT MANUFACTURER 3/4" CONDUIT MIN.	APN: 458-060-72 Issue Date: Project No. T90203 File Path: G:Capital \ Projects \ Building Numbers \ Ave Landfill \ T90203 Environmental Compliance C 2018 ECC
ROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4. RC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.	₩AP-C:	DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +18" AFF, U.O.N. BLUE JACKS & CABLE QTY. OF JACKS AS NOTED WHEN > 2	4-II/I6 SQ. BOX, IG RING, MODULAR PLATE, & I I/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.	LV	MIRING IN CONDUIT, BELOW GRADE MIRING IN CONDUIT, IN WALL OR CEILING LOW VOLTAGE MIRING IN ATTIC SPACE CONDUIT RISER FLEXIBLE CONDUIT	3/4" CONDUIT MIN. TYPE PER EQUIPMENT MANUFACTURER	APN: 458-060-72 Issue Date: Project No. T90203 File Path: G:Capital \ Projects \ Building Numbers \ Ave Landfill \ T90203 Environmental Compliance C
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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.	MAP-C WAP-W	DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +18" AFF, U.O.N. BLUE JACKS & CABLE QTY. OF JACKS AS NOTED WHEN > 2 (2) WAP DATA JACKS (RJ-45 CAT6A) MOUNTED IN ATTIC SPACE (2) WAP DATA JACKS (RJ-45 CAT6A) AT +108" AFF, U.O.N. WALL MOUNT YOIP OUTLET (RJ-45 CAT6) AT +45" AFF, U.O.N.	4-II/I6 SQ. BOX, IG RING, MODULAR PLATE, & I I/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS. 4-II/I6 SQ. BOX, IG RING, MODULAR PLATE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. 4-II/I6 SQ. BOX, IG RING, MODULAR PLATE, & I I/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS. 4-II/I6 SQ. BOX, IG RING, MODULAR PLATE, & I I/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.	GENERAL (E) (N.O.N.	WIRING IN CONDUIT, BELOW GRADE WIRING IN CONDUIT, IN WALL OR CEILING LOW VOLTAGE WIRING IN ATTIC SPACE CONDUIT RISER FLEXIBLE CONDUIT CONDUIT STUB AND CAP 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. CURVED CROSS HATCHES INDICATE #14 AWG PURPLE & GRAY CONDUCTORS FOR DIMMING CONTROL. 5 HOME RUN (TO PANEL "A", CIRCUIT "15") "EXISTING" "UNLESS OTHERWISE NOTED"	3/4" CONDUIT MIN. TYPE PER EQUIPMENT MANUFACTURER 3/4" CONDUIT MIN. 3/4" CONDUIT MIN. 3/4" CONDUIT MIN. 3/4" CONDUIT MIN.	APN: 458-060-72 Issue Date: Project No. T90203 File Path: G:Capital \ Projects \ Building Numbers \ Ave Landfill \ T90203 Environmental Compliance C 2018 ECC Sheet Content: Electrical Notes and Symbols Fresno County Department of Public Works and Planning Capital Projects 2220 Tulare Street, 8th Floor
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LINE DIAGRAM KEY NOTES ○

- I. (E) 4"C. UTILITY PRIMARY PER RULE 16 DOCS.
- 2. (E) UTILITY TRANSFORMER & CONCRETE PAD PER RULE 16 DOCS.
- 3. (3) 5"C. UTILITY SECONDARY PER PG&E PER RULE
- 4. (E) SERVICE GROUNDING ELECTRODE CONDUCTOR.
- 5. GROUNDING ELECTRODE CONDUCTOR TO UFER, STRUCTURAL STEEL, METAL WATER PIPE, AND FIRE SPRINKLER RISER.

FEEDERS 0

- A. (E) 2-1/2"C. 4#1/O, 1#6G.
- B. (E) 2"C. 4#I, I#66.
- C. (E) 3"C. 4#4/O, I#4G.
- D. (E) 2"C. 3#2/O, I#6G.

J1 Power Single Line Diagram

			Potential at Origin (P _i)		Design	Raceway	Sets of	Conductor Trade	Conductor Cross- Sectional Area	Conductor	DC Conductor Material		Distance	Voltage Drop (VD)	Potential at Load (P ₁)	Percent Voltage Drop
No.	Feeder Origin	Feeder Destination	(Volts)	System	(Amps)	Type	Cond.	Size	(CM)	Material	Constant (K)	Q	(ft)	(Volts)	(Volts)	(%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

- 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)

VD (single phase or DC) = 2 x K x Q x I x D / CM

VD (three phase) = $\sqrt{3} \times K \times Q \times I \times D / CM$

 $%VD = VD / P_i \times 100$

E1	Voltage Scale: None	Drop (Calcul	ations
----	------------------------	--------	--------	--------

<u>TYPE</u>	MANUFACTURER	CATALOG NO.	<u>LAMPING</u>	<u>WATTS</u>	<u>VOLTS</u>	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
Р	LUMINAIRE	SWP1212 MIN10 25W 40K MVOLT OP GRY	LED	25.0	120	WALL	

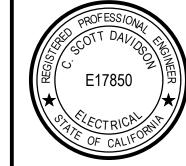
PANEL "A	" SCHEDULE			120/208\	/ 3Ф 4\	W 50kAIC			INDOOR / SURFACE	
CKT.	DECCRIPTION	BRE	AKER	VA		\/A	BRE	AKER	DESCRIPTION	
NO.	DESCRIPTION	AMPS	AMPS POLE(S)		Ф	VA	AMPS	POLE(S)	DESCRIPTION	N
1 LIGHTING CON	ITROL PANEL	15	1	150	Α	1000	20	1	OUTLETS - BACKBOARD	2
3 LIGHTS - INTER	RIOR	15	1	319	В	1000	20	1	OUTLETS - BACKBOARD	
5 LIGHTS - EXTE	RIOR	15	2	125	С	1000	20	1	* FIRE SPRINKLER SYSTEM	(
7 LIGHTS - SITE I	POLES (208V)	15	2	229	Α	1000	20	1	OUTLETS - BACKBOARD	;
9				229	В	540	20	1	OUTLETS - OFFICE	1
11 SPARE		15	1		С	720	20	1	OUTLETS - OFFICE	1
13 SPARE		20	1		Α	540	20	1	OUTLETS - OFFICE	1
15 SPARE		20	1		В	720	20	1	OUTLETS - STORAGE	1
17 SPARE		20	1		С	540	20	1	OUTLETS - EXTERIOR, NE RESTROOM	1
19 AIR CONDITIO	NER ODU-1 / IDU-1	50	2	3120	Α	360	20	1	OUTLETS - EXTERIOR, NW RESTROOM	2
21				3120	В	2000	20	1	HAND DRYER - NE RESTROOM	2
23 AIR CONDITIO	NER ODU-2 / IDU-2	15	2	936	С	3000	30	1	** WATER HEATER - NE RESTROOM	2
25				936	Α	2000	20	1	HAND DRYER - NW RESTROOM	2
27 EXHAUST FAN	EF-2	15	1	696	В	3000	30	1	** WATER HEATER - NW RESTROOM	2
29 SPACE ONLY					С	360	20	1	OUTLETS - HAZMAT CONTAINER	3
31 SPACE ONLY					Α		20	1	SPARE	3
33 SPACE ONLY					В		20	1	SPARE	3
35 SPACE ONLY					С		20	1	SPARE	(3)
37 SPACE ONLY					Α		20	1	SPARE	
39 SPACE ONLY					В		20	1	SPARE	4
41 SPACE ONLY					С		20	1	SPARE	4
LOAD SUMMA	RY:		ΦА	9335	VA		BUSIN	G:	200A	
			ΦВ	11624	VA	MAIN:			150A	
			ΦС	6681	VA		NOTES	:	* PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS.	
CONNECTED L	OAD:			27.6	kVA				** PROVIDE LOCK-OUT DEVICE FOR SERVICE	
MAX CURRENT	Γ:			97	Α					

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

PΔ	NEL "B" SCHEDULE			120/208\	/ 3Ф 4\	N 50kAIC			INDOOR / SURFACE	
CKT.	DESCRIPTION	BREAKER		VA	Ф	VA -	BREAKER AMPS POLE(S)		DESCRIPTION	CKT.
NO. 1	CANOPY LIGHTS	15	POLE(S)	736	Α	1176	20	POLE(S)	LIQUID RECOVERY TANK	NO. 2
3	SPARE	15	1	/30	В	500	20	1	NORTH SEA TRAIN	4
	SPARE	20	1		С	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	В	500	15		S. LIFT GATE	10
11	OUTLETS - CANOPY	20	1	360	С		20	1	SPARE	12
13	OUTLETS - TERMINAL CABINET	15	1	360	Α		20	1	SPARE	14
15	SPARE	20	1		В		20	1	SPARE	16
17	SPARE	20	1		С		20	1	SPARE	18
19	SPACE ONLY				Α				SPACE ONLY	20
21	SPACE ONLY				В				SPACE ONLY	22
23	SPACE ONLY				С				SPACE ONLY	24
25	SPACE ONLY				Α				SPACE ONLY	26
27	SPACE ONLY				В				SPACE ONLY	28
29	SPACE ONLY				С				SPACE ONLY	30
	LOAD SUMMARY:		ΦА	3132	VA		BUSIN	IG:	100A	
			ΦВ	1360	VA		MAIN:	:	100A	
			ΦС	860	VA					
	CONNECTED LOAD:			5.4	kVA					
	MAX CURRENT:			26	Α					

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

PA	NEL "C" SCHEDULE	120/208V 3Ф 4W 50kAIC							INDOOR / SURFACE	
CKT.		BRE	BREAKER				BREAKER		DESCRIPTION	СКТ.
NO.	DESCRIPTION	AMPS	POLE(S)	VA	Ф	VA	AMPS	POLE(S)	DESCRIPTION	NO.
1	LIGHTING CONTROL PANEL	15	1	150	Α	500	20	1	OUTLETS - BACKBOARD	2
3	LIGHTS - INTERIOR	20	1		В	500	20	1	OUTLETS - BACKBOARD	4
5	LIGHTS - EXTERIOR	15	1		С	1000	20	1	OUTLETS - BACKBOARD	6
7	MARQUEE SIGN	15	1		Α	360	20	1	OUTLETS - INTERIOR	8
9	SPACE ONLY				В	360	20	1	OUTLETS - INTERIOR	10
11	SPACE ONLY				С	360	20	1	OUTLETS - INTERIOR	12
13	ROLL-UP DOOR MOTOR	15	3	444	Α	360	20	1	OUTLETS - INTERIOR	14
15				444	В	500	20	1	* FIRE SPRINKLER SYSTEM	16
17				444	C		20	1	SPARE	18
19	ROLL-UP DOOR MOTOR	15	3	444	Α		20	1	SPARE	20
21				444	В		20	1	SPARE	22
23				444	С		20	1	SPARE	24
25	ROLL-UP DOOR MOTOR	15	3	444	Α	4800	50	3	OUTLET - FORKLIFT CHARGER	26
27				444	В	4800				28
29				444	С	4800				30
31	EXHAUST FAN EF-1	20	1	1176	Α				SPACE ONLY	32
33	SPACE ONLY				В				SPACE ONLY	34
35	SPACE ONLY				С				SPACE ONLY	36
37	SPACE ONLY				Α				SPACE ONLY	38
39	SPACE ONLY				В				SPACE ONLY	40
41	SPACE ONLY				C				SPACE ONLY	42
	LOAD SUMMARY:	ФА 8678		VA BUSING:		 G:	200A			
			ФВ 7492		VA		MAIN:		200A	
		Ф С 7492		7492	VA	NOTES:		:	* PROVIDE RED LOCK-ON DEVICE FOR F.A. CKTS.	
	CONNECTED LOAD:			23.7	kVA					
	MAX CURRENT:			72	Α					



Hardin-Davidson Engineering 356 Pollasky Ave. Suite 200 Clovis, CA 93612 559,323,4995 tel 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

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.

A1 Light Fixture Schedule

A10 Panel Schedules

1 2 3 4	5 6 7	8 9 10 11	12 13 14 15	
STATE OF CALIFORNIA Electrical Power Distribution NRCC-ELC-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Electrical Power Distribution NRCC-ELC-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Electrical Power Distribution NRCC-ELC-E CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Electrical Power Distribution NRCC-ELC-E CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or	CERTIFICATE OF COMPLIANCE Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 2 of 5)	CERTIFICATE OF COMPLIANCE Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 3 of 5)	CERTIFICATE OF COMPLIANCE Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 4 of 5)	
\$141.0(b)2P for alterations Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 1 of 5)	Project Address: 310 S. West Ave. Date Prepared: 7/20/2020 D. EXCEPTIONAL CONDITIONS	Project Address: 310 S. West Ave. Date Prepared: 7/20/2020 H. VOLTAGE DROP	Project Address: 310 S. West Ave. Date Prepared: 7/20/2020 K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Project Address: 310 S. West Ave. Date Prepared: 7/20/2020 A. GENERAL INFORMATION	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii	There are no Certificates of Acceptance applicable to electrical power distribution requirements.	
01 Project Location (city) Fresno 02 Occupancy Types Within Project: □ Office □ Retail ☑ Warehouse □ Hotel/Motel □ School □ Support Areas □ Parking Garage □ High-Rise Residential □ Relocatable □ Healthcare Facilities □ Other (write in) See Table I	E. ADDITIONAL REMARKS This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.	01 02 03 04 05 Electrical Service Combined Voltage Drop on Installed Feeder/Branch Location of Voltage Drop Calculations in Construction		
□ Parking Garage □ High-Rise Residential □ Relocatable □ Healthcare Facilities □ Other (write in) See Table I B. PROJECT SCOPE	F. SERVICE ELECTRICAL METERING This section does not apply to this project.	Designation/Description		
This table includes electrical systems that are within the scope of the permit application. 01 02 03 04 05	G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the	* NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.		
Electrical Service Designation/Description Scope of Work ¹ Rating (kVA) Utility Provided Metering System (kVA) System subject to CA Elec Code Article 517 Exception to \$130.5(a) ² Exception to \$130.5(a) ² System subject to CA Elec Code Article 517 Exception to \$130.5(a) and (b)	service do not need to be shown. 01 02 03 04 05	¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".		
Panel A New electrical service equipment and meter Where required, demand response controls must be specified which are capable of receiving and automatically	Load Type per Table 130.5-B Minimum Required Separation of Load per Table 130.5-B Compliance Method ² Compliance Method ² Location of Requirements in Construction Documents Field Inspector Pass Fail	I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.		
Demand Response Controls responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.	Lighting including exit, egress and exterior	01 02 03 04 05 06 Room name or Location/ Type of Controlled place of the controlled personnel of the controlled p		
¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required. ² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.	Plug Loads and appliances less than 25kVA Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf E1.3	Description Receptacles Snut-Off Controls Marking Will be Used Construction Documents Pass Fail Panel A NA: No applicable space types on this service Occupancy Sensor		
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 auidance or see applicable Table referenced below.	HVAC systems and components All HVAC in aggregate Method 1 E1.3 * NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below. * FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.	* NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below. J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION		
O1 O2 O3 O4 O5 Service Electrical AND Separation for AND Voltage Drop \$130.5(c) AND Controlled Receptacles	² Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type. Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type. Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.	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		
Metering \$130.5(a) (See Table F) (See Table G) (See Table H) (See Table I) Yes AND Yes AND Yes AND Yes AND Yes COMPLIES	Method 4: Complete metering system measures and reports loads by type. See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/ Yes No Form/Title Field Inspector Pass Fail		
Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	NRCI-ELC-01-E - Must be submitted for all buildings Registration Number: Registration Date/Time: Registration Provider: Energysoft	Registration Number: Registration Date/Time: Registration Provider: Energysoft	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16 Schema Version: rev 20190401	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16 Schema Version: rev 20190401	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16 Schema Version: rev 20190401	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16 Schema Version: rev 20190401	
STATE OF CALIFORNIA Electrical Power Distribution	STATE OF CALIFORNIA	STATE OF CALIFORNIA	STATE OF CALIFORNIA	1
NRCC-ELC-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ELC-E	Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	
Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 5 of 5) Project Address: 310 S. West Ave. Date Prepared: 7/20/2020	This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path. Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 1 of 7)	Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 2 of 7) Project Address: 310 S. West Ave. Date Prepared: 7/20/2020	Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 3 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.	Project Address: 310 S. West Ave. Date Prepared: 7/20/2020 A. GENERAL INFORMATION	C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	F. INDOOR LIGHTING FIXTURE SCHEDULE ¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes	
Documentation Author Name: C. Scott Davidson Company: Signature Date:	01 Project Location (city) Fresno 04 Total Conditioned Floor Area (ft²) 2,367 02 Climate Zone 13 05 Total Unconditioned Floor Area (ft²) 0	Allowed Lighting Power per §140.6(b) (Watts) Lighting in conditioned and cond	this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> Wattage used must be the maximum rated for the luminaire, not the lamp.	
Hardin-Davidson Engineering Address: 356 Pollasky Ave., Suite 200 E17850	03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 1 Office Retail Retail Retail Relocatable Healthcare Other (Write in) See Table I	unconditioned spaces must not be combined for Building Category Additional \$\frac{1}{2}\$ Area Category Additional \$\frac{1}{2}\$ Additional \$\frac	G. MODULAR LIGHTING SYSTEMS	
City/State/Zip: Clovis CA 93612 RESPONSIBLE PERSON'S DECLARATION STATEMENT	Parking Garage High-Rise Residential Relocatable Healthcare Other (Write in) See Table I B. PROJECT SCOPE Other (Write in) See Table I	compliance per \$140.6(c)1 \$140.6(c)2 \$140.6(c)2G (+) (+) Allowed (Watts) (Watts) \$140.6(a)2 (-) *Includes Adjustments (See Table I) (See Table I)<	This section does not apply to this project. H. INDOOR LIGHTING CONTROLS (Not including PAFs)	
I certify the following under penalty of perjury, under the laws of the State of California: 1. The Information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)	This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in \$140.6 or \$141.0(b)2 for alterations. Scope of Work Conditioned Spaces Unconditioned Spaces	Conditioned 1,065.15 0 = 1,065.15 ≥ 1,056 0 = 1056 COMPLIES Unconditioned = ≥ =	This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. Building Level Controls	
 The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 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. 	01 02 03 04 05 My Project Consists of (check all that apply): Calculation Method Area (ft²) Calculation Method Area (ft²)	Controls Compliance (See Table H for Details) Rated Power Reduction Compliance (See Table Q for Details) COMPLIES Rated Power Reduction Compliance (See Table Q for Details)	01 02 03 Field Inspector	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Responsible Designer Signature:	☑ New Lighting System Area Category Method 2367 Area Category Method 0 ☐ New Lighting System - Parking Garage Total Area of Work (ft²) 2367 0	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	Not Required <= 10,000 SF Area Level Controls Snut-off controls \$130.1(c) Pass Fail Whole Building Other	
C. Scott Davidson Company: Hardin-Davidson Engineering 2020-07-20		E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	04 05 06 07 08 09 10 11 12	
Address: License:		F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all permanent designed lighting and all portable lighting in offices.	Area Description Complete Building or Area Controls S130.1(a) Area Description Area Description Complete Building or Area Controls S130.1(b) Area Controls S130.1(b) Area Description Area Description Area Description Complete Building or Area Controls S130.1(b) Area Controls S130.1(c) Shut-Off Controls S130.1(c) Shut-Off Controls S130.1(d) Systems S140.6(a) S140.6(a) Field Inspector Daylighting S140.6(a)	
G Clovis CA 93612 (559) 323-4995		Designed Wattage: Conditioned Spaces 01 02 03 04 05 06 07 08 09 10	Warehouse Warehouse Dimmer Occupancy Sensor N/A N/A No	
		Name or Item Tag Description Complete Luminaire Description Tag Description Small Aperture & Color Change 1 Uminaire Change 1 Uminaire Color Change 1 Uminaire Color Change 1 Uminaire Change 1	*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to \$130.1(d)2 Plan Sheet Showing Daylit Zones:	PROFESSIONAL PROFE
		F 132.0w LED Low Bay No No 132 CEC Default 8 No 1,056 □ Total Designed Watts: CONDITIONED SPACES 1,056	E1.4	167 5 6181
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Hardin-Davidson Engineering
Schema Version: rev 20190401 STATE OF CALIFORNIA	Schema Version: rev 20190401 STATE OF CALIFORNIA	Schema Version: rev 20190401 STATE OF CALIFORNIA	Schema Version: rev 20190401 STATE OF CALIFORNIA	356 Pollasky Ave. Suite 200 Clovis, CA 93612 559,323,4995 tel
Indoor Lighting NRCC-LIT-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LIT-E	Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	Indoor Lighting NRCC-LTI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-E	Indoor Lighting NRCC-LITI-E CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LITI-E	559.323.4995 tel www.hardin-davidson.com
Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 4 of 7) Project Address: 310 S. West Ave. Date Prepared: 7/20/2020	Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 5 of 7) Project Address: 310 S. West Ave. Date Prepared: 7/20/2020	Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 6 of 7) Project Address: 310 S. West Ave. Date Prepared: 7/20/2020	Project Name: Environmental Compliance Center Warehouse Building Report Page: (Page 7 of 7) Project Address: 310 S. West Ave. Date Prepared: 7/20/2020	ARCHITECT: Tiana L. Perez, Architect
I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per \$140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per	Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This section does not apply to this project.	U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E.	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.	California Licensed Architect No. C-38000 Ren. 01-31-21 Fresno County Department of
\$140.6(c) or adjustments per \$140.6(a) are being used. Conditioned Spaces	R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS	Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html	Documentation Author Name: C. Scott Davidson Documentation Author Signature:	Public Works & Planning Development Services and Capital Projects Division
01 02 03 04 05 06 Area Description Complete Building or Area Category Primary Function Area (W/ft²) Area (ft²) Allowed Wattage (Watts) Area Category PAF	This section does not apply to this project. S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)	Yes No Form/Title Field Inspector Pass Fail NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Company: Signature Date: Hardin-Davidson Engineering 2020-07-20 Address: CEA/ HERS Certification Identification (if applicable): 356 Pollasky Ave., Suite 200 E17850	REN: 01-31-21 2220 Tulare Street, Eighth Floor Fresno, California 93721
Warehouse Commercial Industrial Storage Area 0.45 2,367 1,065.15 No No No TOTALS: 2,367 1,065.15 See Tables J, or P for detail	This section does not apply to this project. T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	● NRCA-LTI-03-A - Must be submitted for automatic daylight controls. □ ● NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. □ ● NRCA-LTI-05-A Must be submitted for institutional tuning power adjustment factor (PAF) □	S15 POII38KY AVE., SUITE 200 E17850	Office: (559) 600-4536 E-mail: tperez@fresnocountyca.gov
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.	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		I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)	Dwg!ggt.
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/ Yes No Form/Title Field Inspector Pass Fail		3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	Project:
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Responsible Designer Signature:	Fresno County Environmental Compliance Center
This section does not apply to this project. M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.		C. Scott Davidson Company: Hardin-Davidson Engineering Date Signed: 2020-07-20	Warehouse Building Project Address: 310 S. West Avenue, Fresno CA 93706
This section does not apply to this project. N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.		Address: License: 356 Pollasky Ave., Suite 200 E17850 City/State/Zip: Phone:	APN: 458-060-72 Issue Date:
This section does not apply to this project.			Clovis CA 93612 (559) 323-4995	Project No. T90203 File Path: G:Capital \ Projects \ Building Numbers \ American
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.				Ave Landfill \ T90203 Environmental Compliance Center\ 00 2018 ECC
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.				Sheet Content:
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-07-20 12:09:16	Title 24 Compliance Documents
Schema Version: rev 20190401	Schema Version: rev 20190401	Schema Version: rev 20190401	Schema Version: rev 20190401	}
				Francis County Department of
				Fresno County Department of Public Works and Planning
				Capital Projects
				2220 Tulare Street, 8th Floor Frespo, California 93721
				Fresno, California 93721

Sheet No.

E1.3

