GENERAL NOTES (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)

01 11 13 SUMMARY OF WORK

1. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER OTHER DRAWINGS. THE ELECTRICAL, MECHANICAL, AND OTHER DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. DRAWING DIVISIONS ARE NOT INTENDED TO DIVIDE THE CONSTRUCTION WORK BY TRADE OR CONTRACT. CONTRACTOR WILL COORDINATE ALL WORK WITH THE ARCHITECTURAL DRAWINGS BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT FOR CLARIFICATION OF DISCOVERED DISCREPANCIES. WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. FOR SPECIFIC REQUIREMENTS OF MATERIAL, WORKMANSHIP, AND PERFORMANCE, REFER TO SPECIFICATIONS AND GENERAL REQUIREMENTS.
3. ALL DIMENSIONS ARE TO "FACE OF STUD" OR FROM "GRID LINES" IN NEW CONSTRUCTION AND "FACE OF FINISH" IN EXISTING CONDITION, UNO.
4. WRITTEN DIMENSIONS ON DRAWINGS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS TO DETERMINE THE FINAL WORKING DIMENSIONS. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.
5. HEIGHTS ARE DIMENSIONED FROM "ABOVE FINISH FLOOR", UNLESS NOTED OTHERWISE.
6. IN THE EVENT THAT CERTAIN FEATURES OF THE WORK ARE NOT FULLY SHOWN OR DETAILED ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
7. ITEMS NOT IDENTIFIED AS "EXISTING" ARE INTENDED AS NEW AND TO BE PROVIDED AS PART OF THIS PROJECT.
8. "TYPICAL" SHALL MEAN IDENTICAL FOR ALL SAME CONDITIONS. "SIMILAR" SHALL MEAN COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED.
9. ALL ELEMENTS SHOWN ON THE DRAWINGS AND, ELEMENTS NEEDED TO PROVIDE A COMPLETE WORKING SYSTEM MEETING THE INTENT OF THE DESIGN WHETHER SHOWN ON DOCUMENTS OR NOT, SHALL BE INCLUDED WITHIN THE GENERAL CONTRACTOR'S BID.

01 31 13 CONTRACTORS MANAGEMENT & COORDINATION

1. THE GENERAL CONTRACTOR WILL BE REQUIRED TO ATTEND ANY PROJECT CONSTRUCTION MEETINGS THAT ARE SCHEDULED THROUGHOUT THE COURSE OF THE PROJECT. HE/SHE WILL PROVIDE AND DISTRIBUTE MEETING NOTES TO ALL PARTIES INVOLVED.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, FOR ACCURACY AND CONFIRMING THAT WORK IS CONSTRUCTIBLE AS SHOWN PRIOR TO PROCEEDING WITH THE WORK. FOR QUESTIONS REGARDING THE CONTRACT DOCUMENTS OR OTHER COORDINATION QUESTIONS, OBTAIN WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
3. CONTRACTOR SHALL INFORM THE ARCHITECT OF CONFLICTS THAT EXIST IN LOCATIONS OF MECHANICAL, COMMUNICATION, ELECTRICAL, LIGHTING, PLUMBING, AND FIRE SPRINKLER EQUIPMENT. CONFIRM REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT IS PROVIDED.

01 31 13 CONTRACTORS MANAGEMENT & COORDINATION

4. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, FITTING, AND PATCHING THAT MAY BE REQUIRED TO COMPLETE THE WORK, OR TO MAKE ITS MANY PARTS FIT TOGETHER PROPERLY. PROTECT ADJACENT CONSTRUCTION FROM DAMAGE. CUTTING AND WEAKENING OF EXISTING STRUCTURAL COMPONENTS, WALLS, FLOORS, AND ROOF MEMBERS IS PROHIBITED UNLESS FULLY DETAILED ON THE PLANS.

01 33 00 SUBMITTALS

1. ALL CHEMICAL OR HAZARDOUS PRODUCTS SHALL HAVE A MATERIAL SAFETY DATA SHEET (MSDS) AND BE LOCATED ON SITE. ALL PRODUCTS MUST BE SUBMITTED TO THE OWNER'S REPRESENTATIVE (ARCHITECT) FOR APPROVAL. APPROVED PRODUCT SPECIFICATION SHEETS CONTRACTOR SHALL CERTIFY THAT NO ASBESTOS CONTAINING MATERIAL (ACM) IS USED ON THE PROJECT.
2. ANY EQUIPMENT ARRIVING ON SITE DAMAGED OR SUBSEQUENTLY DAMAGED ON SITE, SHALL BE REPLACED WITH NEW EQUIPMENT AS DIRECTED BY THE OWNER'S REPRESENTATIVE (ARCHITECT).

01 41 10 REGULATORY REQUIREMENTS

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING WORK AND MATERIALS IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATORY AGENCIES AND APPLICABLE BUILDING CODES.
2. CONSTRUCTION TECHNIQUES, MATERIALS AND FINISHES TO BE INSTALLED AS REQUIRED BY THE APPROPRIATE CODE AUTHORITIES. INSTALLATION SHALL FOLLOW THE STANDARDS OF THE INDUSTRY IN ADDITION TO MEETING OR EXCEEDING THE DESIGN STANDARDS.
3. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO CONSTRUCT THE BUILDINGS IN ACCORDANCE WITH THE 2019 CBC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBC, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY COUNTY OF FRESNO BEFORE PROCEEDING WITH THE WORK, PER 2019 CBC SECTIONS 107 AND 116.

01 64 00 OWNER FURNISHED ITEMS

1. WORK INDICATED AS "OWNER FURNISHED/CONTRACTOR INSTALLED (OFCI)", AND "OWNER FURNISHED/OWNER INSTALLED (NIC)" SHALL MEET ALL APPLICABLE CODES AND REGULATORY REQUIREMENTS INDICATED WITHIN THESE DOCUMENTS AND SHALL BE INSTALLED AND FULLY OPERATIONAL PRIOR TO FINAL APPROVAL OF THIS PROJECT.

01 78 36 WARRANTIES

1. ALL WARRANTY DOCUMENTATION AS REQUIRED BY CONTRACT DOCUMENTS SHALL BE TURNED OVER TO THE OWNER BEFORE FINAL PAYMENT.

STRUCTURAL NOTES

1. WHEN INSTALLING DRILLED IN ANCHORS AND/OR POWDER DRIVING PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCEMENT BARS.

ABBREVIATIONS

&	AND
@	AT
∠	ANGLE
AB	ANCHOR BOLT
A/C	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACT	ACOUSTICAL or ACOUSTIC
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INST.
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AV	AUDIO / VISUAL
BLDG	BUILDING
BLKG	BLOCKING
C	CHANNEL
CAB	CABINET
CBC	CALIFORNIA BUILDING CODE
CANT	CANTILEVER
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT or FEET
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED
CG	CORNER GUARD
CHKD	CHECKED
CI	CAST IRON
CJ	CONTROL JOINT
℄	CENTER LINE
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
CONF	CONFERENCE
COORD	COORDINATE or COORDINATOR
CORR	CORRIDOR
CTR	CENTER
DEMO	DEMOLISH or DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIR	DIRECTOR or DIRECTORY
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
'	FOOT or FEET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FL	FIRE LANE
FLR	FLOOR or FLOORING
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FR	FIRE RATED
GYP BD	GYPSUM BOARD
HM	HOLLOW METAL
ID	INSIDE DIAMETER
" OR IN	INCH or INCHES
ICC	INTERNATIONAL CODE COUNSEL
JACHO	JOINT COMMISION ACCREDITATION HEALTH CARE ORGANIZATION
JAN	JANITORIAL
KIT	KITCHEN
LAV	LAVATORY
L.L.	LEAD LINED
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
d	PENNY (nail size)
+/-	PLUS OR MINUS
#	POUND
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
OD	OUTSIDE DIAMETER
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PREP	PREPARATION or PREPARE
R	RADIUS (IN DIMENSIONS)
RAD	RADIUS (IN NOTES)
RECEPT	RECEPTIONIST
REFR	REFRIGERATOR
SCHED	SCHEDULE
SF	SQUARE FOOT OR FEET
SIM	SIMILAR
SMS	SHEET METAL SCREWS
SST	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STSMS	SELF-TAPPING SHEET METAL SCREWS
SUSP	SUSPENDED
TOC	TOP OF CONCRETE
TOD	TOP OF DRAIN
TOF	TOP OF FRAMING
	TOP OF FOOTING
TOP	TOP OF PARAPET
TOPL	TOP OF PLATE
TOR	TOP OF ROOF OR RIDGE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TST	TOP OF STEEL
UNO	UNLESS NOTED OTHERWISE
VFVI	VENDOR FURNISHED/VENDOR INSTALLED
VIF	VERIFY IN FIELD
WD	WOOD
WH	WATER HEATER
WS	WOOD SCREW
OFOI	OWNER FURNISHED/OWNER INSTALLED

NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

DEFERRED APPROVAL

1. PRE-ENGINEERED METAL BUILDINGS

A. PRE-ENGINEERED METAL BUILDING SYSTEM BIDS ARE OPEN TO PRE-ENGINEERED METAL BUILDING MANUFACTURERS ABLE TO COMPLY WITH THE FOLLOWING CRITERIA:
   a. PROVIDE STRUCTURAL CALCULATIONS AND DRAWINGS TO OBTAIN BUILDING PERMITS UNDER GOVERNING CALIFORNIA BUILDING CODES.
   b. PROVIDE ALL LABOR AND MATERIALS NOTED ON THE DOCUMENTS.
   c. PROVIDE LABOR AND MATERIAL TO INSTALL ALL WALL PENENTRATION, OPENINGS AND BUILDING ENVELOPE WEATHER PROOFING.
   d. PROVIDE LABOR AND MATERIAL TO INSTALL ALL ROOF PENETRATION, OPENINGS AND BUILDING ENVELOPE WEATHER PROOFING.

B METAL BUILDING MANUFACTURER'S DESIGN SHALL INCLUDE:
   a. COLLATERAL LOAD CONDITIONS AS NOTED ON THE DOCUMENTS AS SUPPLIED BY THE STRUCTURAL ENGINEER.
   b. COMPLIANCE WITH DIMENSIONS AND INSTRUCTIONS ON THE DOCUMENTS.
   c. COMPLIANCE WITH MATERIAL PERFORMANCE AS SPECIFIED IN THE DOCUMENTS.
   d. ANCHOR BOLT SIZE, TEMPLATES AND PLACEMENT DETAILS AS SHOWN ON THE DOCUMENTS.
   e. WALL PENETRATION, OPENINGS AND BUILDING ENVELOPE WEATHER PROOFING DETAILS.
   f. ROOF PENETRATION, OPENINGS AND BUILDNG ENVELOPE WEATHER PROOFING DETAILS.

C. SHOP FABRICATED METAL TRIM:
   a. ALL METAL TRIM MATERIAL SHALL BE MINIMUM 24 GAUGE SHEET METAL.
   b. WHERE EXPOSED, METAL TRIM SHALL BE PAINTED TO MATCH PRE-ENGINEERED METAL BUILDING PAINT AND COLOR.
   c. ALL RUNNING EDGES SHALL BE HEMMED TO INTERIOR FACES A MINIMUM OF 1".
   d. BUTT ENDS SHALL BE REINFORCED WITH A PAINTED BACKING PLATE MATCHING CONFIGURATION OF OUTER PLATE AND SHALL BE A MINIMUM OF 6" WIDE.

D. IN GENERAL THE METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR SUPPLYING ALL LABOR AND MATERIAL RELATED TO THE DESIGN AND INSTALLATION OF ALL METAL BUILDING COMPONENTS AND CONNECTION TO NON-PRE-ENGINEERED METAL BUILDING COMPONENTS SUPPLIED BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS.

2. FIRE SPRINKLERS

BUILDING ANALYSIS

PROJECT ADDRESS:	190 S. WEST AVE. FRESNO, CA 93706
APN:	458-060-61, 458-270-15
ZONING:	LIGHT INDUSTRIAL
SITE AREA:	122,752.3 SF (2.82 AC)
SITE COVERAGE	17.4%
OCCUPANCY:	GROUP B & U
TYPE OF CONSTRUCTION:	TYPE IIB - FULLY SPRINKLERED
HEIGHT:	1 STORY
SEISMIC DESIGN CATEGORY:	D

PROJECT

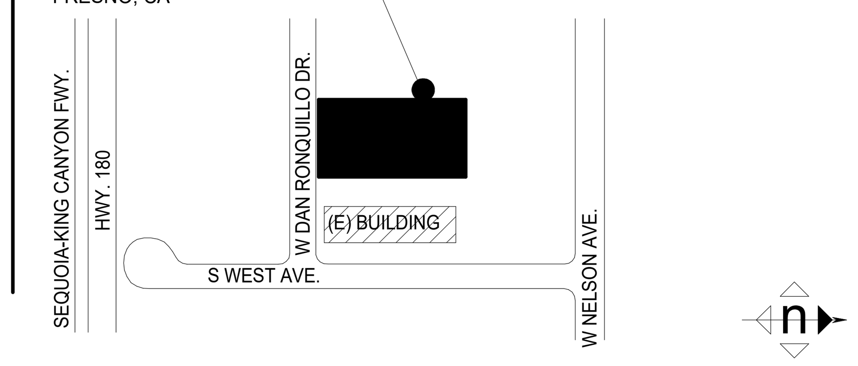
COUNTY OF FRESNO

ANIMAL CONTROL CENTER

PROJECT DESCRIPTION

PROJECT SCOPE IS A NEW ANIMAL CONTROL CENTER CONSISTING OF THREE BUILDINGS; ADMINISTRATION, KENNELS AND INTAKE AND ASSOCIATED UTILITY AND SITE WORK.

VICINITY MAP



SYMBOLS

NORTH ARROW
OVERLAY ARROW INDICATES TRUE NORTH
SHADED AREA INDICATES PLAN NORTH

ELEVATION CALLOUT (TYPICAL FOR EXTERIOR)
INDICATES A SIMILAR CONDITION
SHEET WHERE ELEVATION IS DRAWN
LOCATION ON SHEET

SECTION CALLOUT
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

ELEVATION CALLOUT (TYPICAL FOR INTERIOR)
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT
FIRST FLOOR +0' - 0"
NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE
EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

DOOR CALLOUT
DOOR NUMBER

INTERIOR FINISH CALLOUT
MATERIAL FINISH TYPE

WINDOW CALLOUT
WINDOW NUMBER
(SEE WINDOW SCHEDULE A9.12 - A9.13)

WALL TYPE CALLOUT
WALL TYPE MARK
SEE A10.11

KEYNOTE
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

DEMO KEYNOTE
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ROOM EXITING INFORMATION
ROOM NAME
KAISER ROOM CODE / SUB-CODE
ROOM NUMBER
AREA (SQ FT)

WIC CASEWORK TAG
MANUFACTURER REFERNCE AND MODEL NUMBER
CABINET WIDTH
CABINET HEIGHT
CABINET DEPTH

SIGNAGE CALLOUT
SIGN NUMBER

DISCIPLINE

- G GENERAL
- C CIVIL
- L LANDSCAPE
- A ARCHITECTURE
- I INTERIORS
- Q EQUIPMENT
- S STRUCTURAL
- P PLUMBING
- M MECHANICAL
- E ELECTRICAL
- FA FIRE ALARM
- T TELECOM
- AV AV EQUIPMNET
- K KITCHEN
- FP FIRE PROTECTION

SERIES / ORDER

- 0 CODE ANALYSIS, NOTES
- 1 SITE PLAN
- 2 FLOOR PLAN
- 3 CEILILNG PLAN
- 4 ROOF PLAN
- 5 EXTERIOR ELEVATIONS
- 6 SECTION
- 7 ENLARGED PLANS
- 8 INTERIOR ELEVATIONS
- 9 SCHEDULES
- 10 DETAILS

BUILDING LETTER, SEGMENT (USER DEFINED)
USED ONLY IF REQUIRED, IN NOT COLUMN IS OMITTED

1- A1.1A.A
DISCIPLINE — SERIES/ORDER — SEGMENT (IF APPLICABLE
BUILDING NUMBER (IF APPLICABLE) — ORDER OF SHEET IN SERIES/ORDER — USER DEFINED (IF APPLICABLE)

CODES

PARTIAL LIST OF APPLICABLE CODES

2019	California Administrative Code, Part 1, Title 24 C.C.R.
2019	California Building Code (CBC), Part 2, Title 24 C.C.R. (2018 International Building Code Volumes 1-2 and 2019 California Amendments)
2019	California Electrical Code (CEC), Part 3, Title 24 C.C.R. (2017 National Electrical Code and 2019 California Amendments)
2019	California Mechanical Code (CMC) Part 4, Title 24 C.C.R. (2018 Uniform Mechanical Code and 2019 California Amendments)
2019	California Plumbing Code (CPC), Part 5, Title 2 C.C.R. (2018 Uniform Plumbing Code and 2019 California Amendments)
2019	California Energy Code (CEC), Part 6, Title 24 C.C.R.
2019	California Fire Code, Part 9, Title 24 C.C.R. (2018 International Fire Code and 2016 California Amendments)
2019	California Green Building Standards Code, Part 11, Title 24 C.C.R.
2019	California Referenced Standards, Part 12, Title 24 C.C.R.
Title 19	C.C.R., Public Safety, State Fire Marshal Regulations.

PARTIAL LIST OF APPLICABLE STANDARDS

ADDITIONAL NFPA APPLICABLE CODES SHALL BE LISTED IN THE PROJECT SPECIFICATION SECTIONS OF THE PROJECT MANUAL.

NFPA 13	Automatic Fire Sprinkler Systems	2016 Ed.
NFPA 14	Standpipe and Hose Systems	2016 Ed.
NFPA 17	Dry Chemical Extinguishing Systems	2017 Ed.
NFPA 17a	Wet Chemical Extinguishing Systems	2017 Ed.
NFPA 20	Stationary Pumps for Fire Protection	2016 Ed.
NFPA 22	Water Tanks for Private Fire Protection	2013 Ed.
NFPA 24	Private Fire Mains & Their Appurtenances	2016 Ed.
NFPA 25	Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems	2013CA Ed.
NFPA 72	National Fire Alarm & Signaling Code	2016 Ed.
NFPA 80	Fire Doors and Other Opening Protectives	2016 Ed.
NFPA 92	Standard for Smoke Control Systems	2015 Ed..
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2015 Ed.
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Ed.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

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LANDSCAPE ARCHITECT
CAMP & CAMP
2520 CAMINO DIABLO / WALNUT CREEK, CA 94597
(925) 941-6490

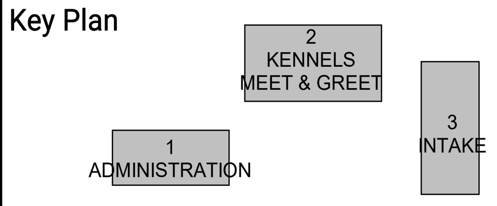
STRUCTURAL
SSG STRUCTURAL ENGINEERS
8405 N. FRESNO STREET, FRESNO, CA 93720
284-8057

MECHANICAL & PLUMBING
LAWRENCE ENGINEERING GROUP
7084 N. Maple, Fresno, CA 93720
(559) 431-0101

ELECTRICAL
HARDIN-DAVIDSON ENGINEERING
356 POLLASKY STE SUITE 200, CLOVIS, CA 93621
(559) 323-4995

FIRE PROTECTION
LAWRENCE ENGINEERING GROUP
7084 N. MAPLE
(559) 431-0101

Key Plan



LICENSED ARCHITECT — NOEL ROGER DAVIDSON II — C-27818 — REN: 10-31-21 — STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
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2220 Tulare Street, Eighth Floor
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

PROJECT DATA

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

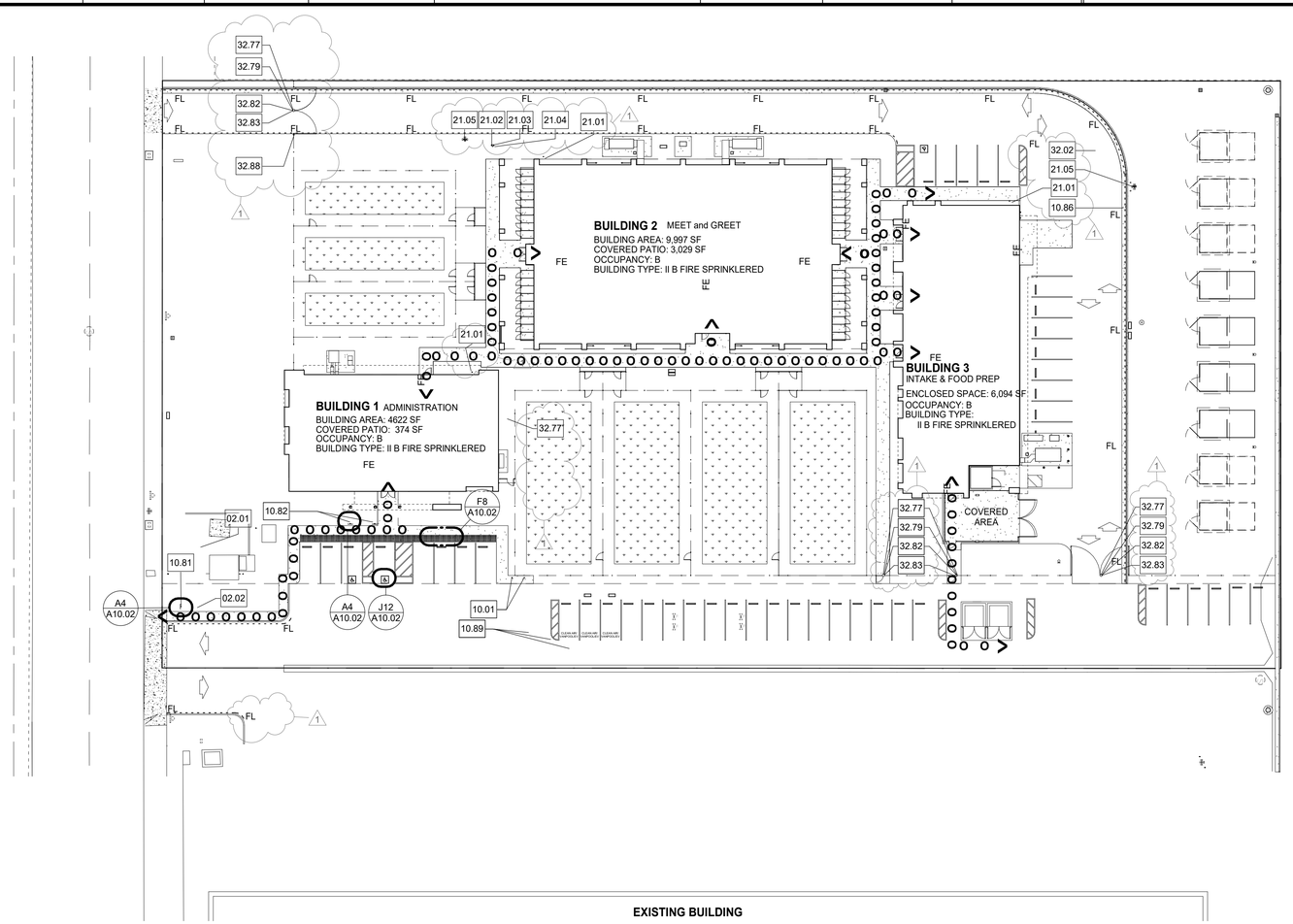
G0.1

CONSTRUCTION DOCUMNENTS

Drawn by: AH Plotted on: 6/29/2020 3:20:28 PM

BUILDING CODE ANALYSIS

BUILDING DESIGNATION	BUILDING USE	OCCUPANCY CLASSIFICATION CBC CHAPTER 3	CONSTRUCTION TYPE CBC 602	ALLOWABLE BUILDING HEIGHT IN FEET PER TABLE 504.3(NON-SEPARATED OCCUPANCY, MOST RESTRICTIVE HEIGHT CBC 508.3)	ALLOWABLE STORIES ABOVE GRADE PER CBC TABLE 504.4 (NON-SEPARATED OCCUPANCY, MOST RESTRICTIVE FLOORS CBC 508.3)	AUTOMATIC FIRE SPRINKLER SYSTEM CBC 903	ALLOWABLE BLDG. FLOOR AREA CBC 503 CBC TABLE 506.2 (NON-SEPARATED OCCUPANCY, MOST RESTRICTIVE SF CBC 508.3)	ALLOWABLE AREA FRONTAGE INCREASE PER STORY W = L1 x w1 + L2 x w2 + L3 x w3.../F (W NOT TO EXCEED 30) If = (F/P - .25) W/30 Aa = [At + (NS x If)] CBC 506.3.3	TOTAL ALLOWABLE BUILDING AREA CBC 506.4	ACTUAL GROSS BLDG. FLOOR AREA IN SQ.FT. CBC 202	APPLICABLE BUILDING CODE	REMARKS
1-ADMINISTRATION	OFFICE BREAKROOM / CONFERENCE (UNDER 750 SF)	B	TYPE II-B	55 FT	4	YES	NS 23,000 S1 92,000	W = W If = [314 / 314 - .25] 30 / 30 = .75 Aa = [92,000 + (23,000 x .75)] = 109,250 sf	109,250 X 1 Stories	4,622 (Covered Area) 598	CBC 2019 CFC 2019	
	BUILDING OVERHANG AREA			ACTUAL HEIGHT: 18 FT	ACTUAL STORIES ABOVE GRADE: 1				109,250 SF	5,220 SF		
2-KENNELS/ MEET & GREET	KENNELS BREAKROOM / CONFERENCE (UNDER 750 SF)	B	TYPE II-B	55 FT	4	YES	NS 23,000 S1 92,000	W = W If = [410 / 480 - .25] 26 / 30 = .51 Aa = [92,000 + (23,000 x .51)] = 103,730 sf	103,730 X 1 Stories	9,997 (Covered Area) 3,029	CBC 2019 CFC 2019	
	BUILDING OVERHANG AREA			ACTUAL HEIGHT: 16 FT	ACTUAL STORIES ABOVE GRADE: 1				103,730 SF	13,026 SF		
3-INTAKE	INTAKE BREAKROOM / CONFERENCE (UNDER 750 SF)	B	TYPE II-B	55 FT	4	YES	NS 23,000 S1 92,000	W = W If = [336 / 402 - .25] 23.5 / 30 = .45 Aa = [92,000 + (23,000 x .45)] = 102,350 sf	109,250 X 1 Stories	6,094 (Covered Area) 1,208	CBC 2019 CFC 2019	
	STORAGE BUILDING OVERHANG AREA	S-2		ACTUAL HEIGHT: 16 FT	ACTUAL STORIES ABOVE GRADE: 1				102,350 SF	7,302 SF		



A10 SITE PLAN - REGULATORY COMPLIANCE
1" = 30'-0"

Legend

EXTERIOR PATH OF TRAVEL

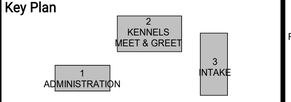
NOTES:

1. REFER TO SHEET G0.10 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. FL - FIRE LANE
3. EXTERIOR PATH OF TRAVEL DEFINITION:
   A. SITE GATES, SITE RAMPS, AND SITE STAIRS LOCATED IN THE "PATH OF TRAVEL" ARE INDICATED ON DRAWING SITE PLAN - CODE COMPLIANCE.
   B. THE "PATH OF TRAVEL" AS INDICATED ON THE REGULATORY COMPLIANCE SITE PLAN SHALL:
      BE AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE;
      BE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4";
      HAVE A FIRM STABLE, AND SLIP RESISTANT WALKING SURFACE;
      HAVE A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 OR LESS;
      BE FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE;
      BE FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE;
      NOT HAVE ANY UNPROTECTED VERTICAL DROP EXCEEING 4" EXCEPT WHEN ADJACENT TO VEHICULAR DRIVE AREAS OR WHERE ALLOWED BY CODE
      BE VERIFIED BY THE CONTRACTOR AND ANY NON-COMPLYING ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT
4. EMERGENCY VEHICLE ACESS SHALL BE DESIGNATED BY PAINTING THE CURB RED (TOP AND SIDE) AND STENCILING "FIRE LANE NO PARKING" IN 3-INCH WHITE LETTERS ON THE MOST VERTICAL CURB, AT LEAST EVERY 50 FEET. IF NO CURB IS PRESENT, A MINIMUM 6-INCH WIDE RED STRIPE SHALL BE PAINTED ALONG THE EDGE OF THE ROADWAY WITH "FIRE LANE" IN 3-INCH WHITE LETTERS AT LEAST EVERY 50 FEET. (FFD DEVELOPMENT POLICY 403.005)
5. PROVIDE SIGN(S) (17"X22" MINIMUM) AT ALL PUBLIC ENTRANCE DRIVES TO THE PROPERTY WHICH STATE "WARNING-VEHICLES STOPPED, PARKED OR LEFT STANDING IN FIRE LANES WILL BE IMMEDIATELY REMOVED AT OWNER'S EXPENSE - 22658(a) CALIFORNIA VEHICLE CODE- FRESNO POLICE DEPARTMENT 621-2300.
6. SIGNS MAY BE USED IN CONJUCTION WITH, OR IN LIEU OF CURB PAINTING. (FFD DEVELOPMENT POLICY 403.005). THE CURBSIDE SIGNS SHALL BE AT A MINIMUM:
   a) THE SIGN SHALL BE AT A MINIMUM 12X18 INCH SIGN WITH A WHITE REFLECTIVE BACKGROUND.
   b) THE SIGN SHALL READ "FIRE LANE NO PARKING" IN MINIMUM 3-INCH RED LETTERS.
   c) SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE DESIGNATED FIRE LANE AND BE AT 50 FOOT INTERVALS. DIRECTIONAL ARROWS SHALL BE PLACED ON THE SIGNS TO INDICATE THE EXTENT AND DIRECTION OF THE FIRE LANES.
   d) SIGNS SHALL BE SET AT LEAST 18 INCHES BUT NOT MORE THAN 24 INCHES FROM THE CURB AND MUST HAVE A FINISHED HEIGHT OF 7 FEET TO THE BOTTOM OF THE SIGN WHEN ADJACENT TO SIDEWALKS.
   e) SIGNS SHALL NOT BE OBSTRUCTED BY LANDSCAPING OR STREET FIXTURES AND SHALL BE READILY VISIBLE FROM A VEHICLE.

Keynotes

NO.	Note - Detail
02.01	EXISTING FIRE HYDRANT TO REMAIN
02.02	EXISTING FIRE SERVICE WITH DETECTOR CHECK
10.01	MISCELLANEOUS SPECIALTIES, BIKE RACK, SHORT TERM, "SOLVA" PARTS 450164, 400181, 813045, CONNECT TO CONCRETE WALK WITH 1/2" EXPANSION ANCHORS
10.81	ROAD AND PARKING SIGNAGE, PARKING ENTRANCE ACCESSIBLE SIGN
10.82	ROAD AND PARKING SIGNAGE, PARKING STALL ACCESSIBLE SIGN
10.86	ROAD AND PARKING SIGNAGE, PROVIDE SIGN(S) 17"X22", MINIMUM AT ALL PUBLIC ENTRANCE DRIVES TO THE PROPERTY WHICH STATE "WARNING-VEHICLES STOPPED, PARKED OR LEFT STANDING IN FIRE LANES WILL BE IMMEDIATELY REMOVED AT OWNER'S EXPENSE, 22658(a) CALIFORNIA VEHICLE CODE-FRESNO POLICE DEPARTMENT 621-2300".
10.89	ROAD AND PARKING SIGNAGE, ACCESSORIES, CLEAN AIR/VANPOOL/EV STALL
21.01	FIRE PROTECTION, RISER
21.02	FIRE PROTECTION, CONNECTIONS SHALL NOT BE INSTALLED WITHIN FIVE (5) FEET OF ANY BUILDING OPENING, EXCLUDING A FIRE DEPARTMENT ACCESS DOOR. (FFD DEVELOPMENT POLICY 405.025)
21.03	FIRE PROTECTION, FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED WITHIN FORTY (40) FEET OF A FIRE APPARATUS ACCESS LANE, (FFD DEVELOPMENT 405.025)
21.04	FIRE PROTECTION, FIRE DEPARTMENT CONNECTIONS, MINIMUM SIZE OF ALL FIRE DEPARTMENT CONNECTIONS SHALL BE BASED UPON THE SYSTEM TYPE, NO CONNECTION SHALL BE LESS THAN 2 1/2" IN SIZE, (FFD DEVELOPMENT POLICY 405.025)
21.05	FIRE PROTECTION, FIRE HYDRANT
32.02	PAVEMENT, TURNS IN PRIVATE DRIVES FOR FIRE APPRARATUS ACCESS SHALL HAVE MINIMUM 44 FOOT CENTERLINE TURN RADIUS
32.77	CHAIN LINK, GATES, GALVANIZED CHAIN, TRIPLE OR DOUBLE WITH BROKEN LINKS FOR DOUBLE OR TRIPLE PADLOCKS.
32.79	CHAIN LINK, GATES, HARDWARE, PROVIDE APPROVED POLICE/FIRE BYPASSS LOCK, "BEST" PADLOCK MODEL 21B700 SERIES OR ELECTRIC CYLINDER SWITCH MODEL 1W7B2 ON DRIVE ACCESS GATE(S). ALL ELECTRIFIED GATES SHALL BE EQUIPPED WITH THE "BEST" ELECTRIC CYLINDER LOCK 1W7B2. A KNOX PADLOCK MAY NOT BE USED IN PLACE OF THE "BEST" PADLOCK MODEL 21B700. THESE LOCKS CAN BE PURCHASED ONLY THROUGH SIERRA LOCK & GLASS, 1560 N. PALM AVENUE, FRESNO, CA 93728
32.82	CHAIN LINK, GATES, HARDWARE, DROP ROD RECEIVER, 1 INCH X 12 INCH PIPE SLEEVE SET IN A 12" X 3 INCH DEEP CONCRETE AT ASHPHALT PAVING.
32.83	CHAIN LINK, GATES, HARDWARE, HASP, BUTTERFLY
32.88	CHAIN LINK, GATES, ELECTRIC GATES SHALL BE PROVIDED WITH BATTERY BACK-UP

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
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Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

SITE PLAN - REGULATORY COMPLIANCE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

G1.1

CONSTRUCTION DOCUMNENTS

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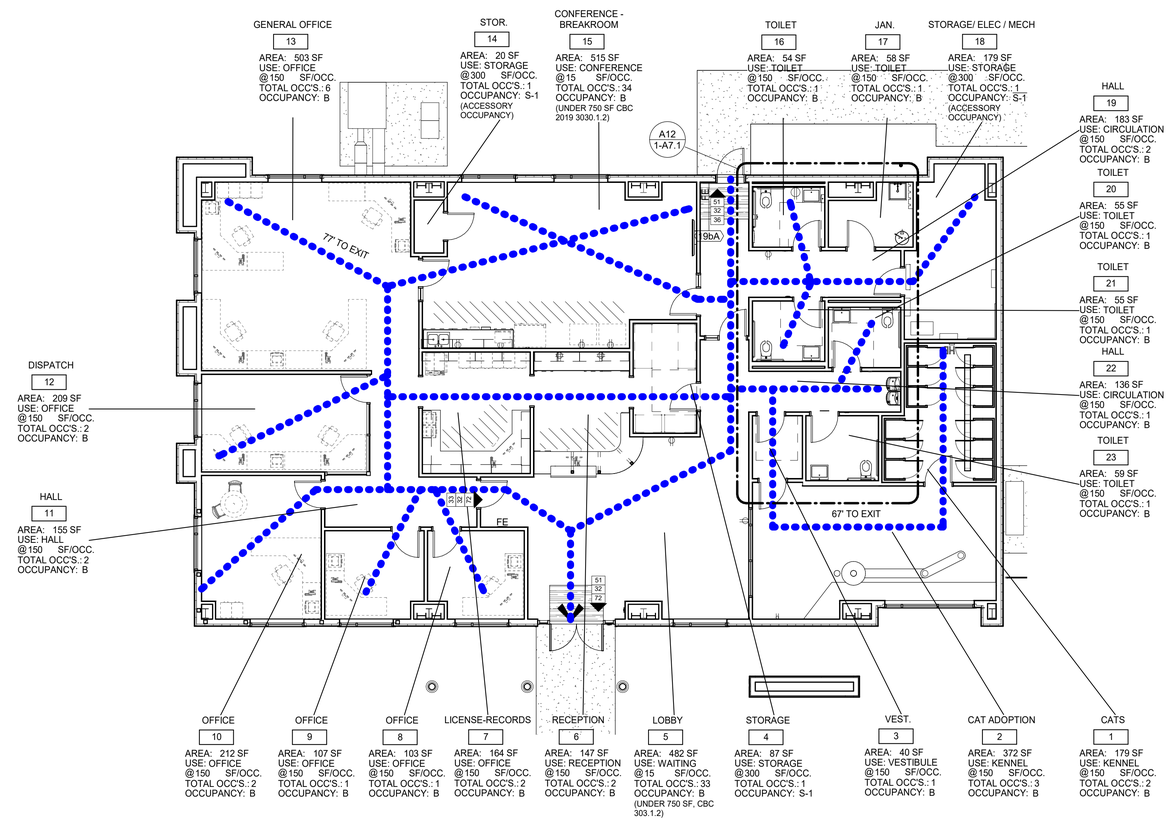


TOTAL OCCUPANT LOAD: 102

A12
1/8" = 1'-0"
REGULATORY COMPLIANCE FLOOR PLAN

Legend

SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND ON SHEET A4.11.

PATH OF TRAVEL

DISTANCE TO EXIT

0'-0" TO EXIT

ACCESSIBLE PATH OF TRAVEL

EXIT TO EXTERIOR OR TRANSITION BETWEEN SEPARATIONS (HORIZONTAL EXITS OR VERTICAL CIRCULATION)

SIGNAGE

ACCESSIBLE ENTRY SIGN, SEE DETAIL A1 / A10.81

TACTILE EXIT SIGN, SEE DETAIL E8 / A10.81

RESTROOM SIGN - FOR MEN'S RESTROOM, SEE DETAILS H1 / A10.81, L1 / A10.81

FOR WOMEN'S RESTROOM, SEE DETAIL C1 / A10.81, F1 / A10.81

FOR WOMEN'S ALL GENDER, SEE DETAIL E12 / A10.81, G12 / A10.81

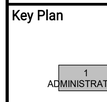
EMPLOYEE WORKSTATION

EMPLOYEE WORKSTATION, PROVIDE ACCESSIBLE PATH OF TRAVEL TO EMPLOYEE WORKSTATIONS

NOTES:

1. SEE G0.1 FOR SYMBOLS AND ABBREVIATIONS
2. INTERIOR PATH OF TRAVEL SHALL:
   - A. HAVE MAXIMUM SLOPE TO BE 2%;
   - B. NO WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2";
   - C. IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" ;
   - D. FREE OF OVERHEAD OBSTRUCTION WITHIN 80" ABOVE THE WALKING SURFACE;
   - E. CONTRACTOR TO VERIFY ANY NON-COMPLYING ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

Key Plan



LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN. 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

1- ADMINISTRATION - FLOOR PLAN - REGULATORY COMPLIANCE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

G2.1

CONSTRUCTION DOCUMNENTS

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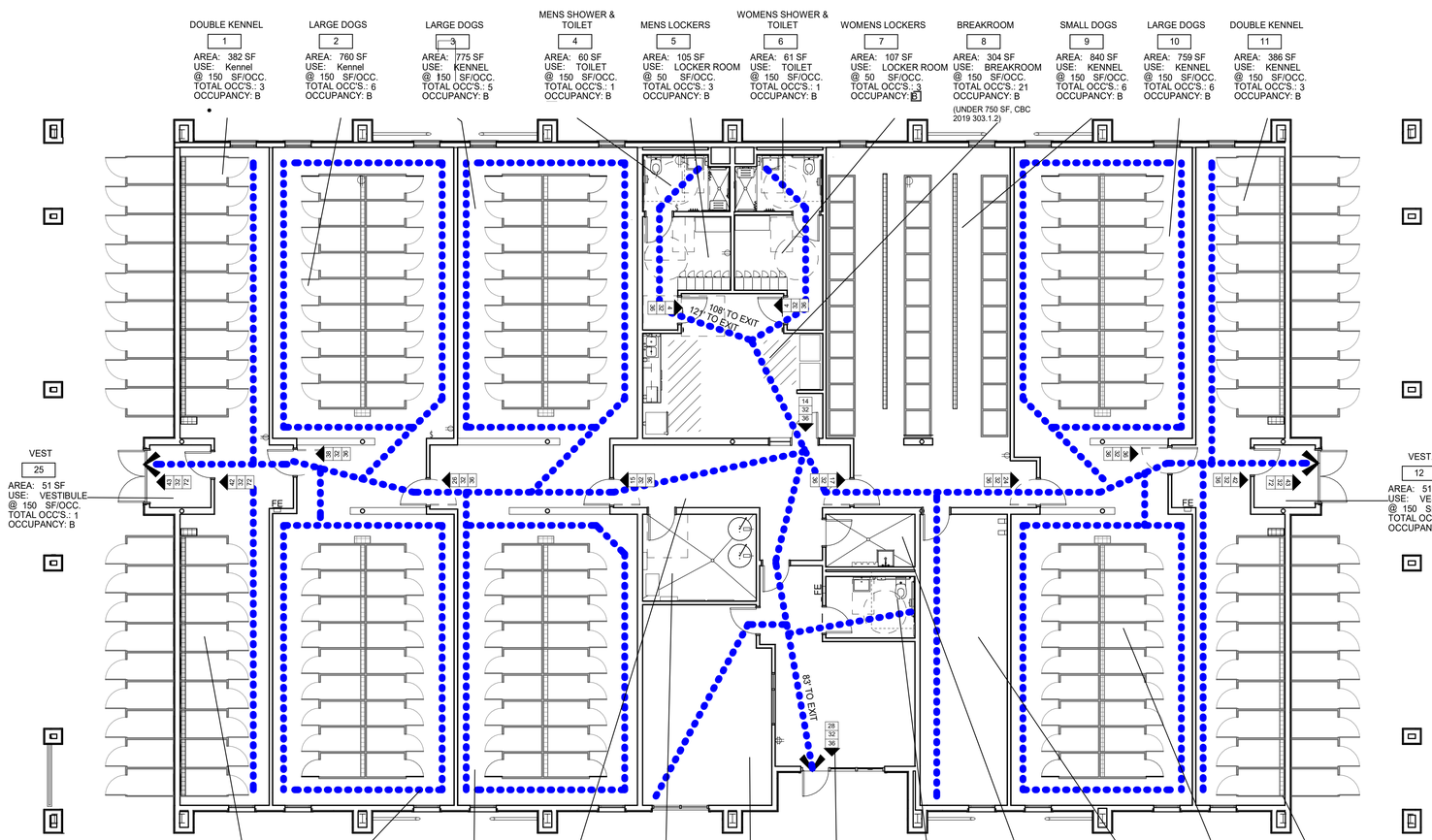

A12 REGULATORY COMPLIANCE FLOOR PLAN
1/8" = 1'-0"

Legend

SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND ON SHEET A4.11.

PATH OF TRAVEL

0'-0" TO EXIT — DISTANCE TO EXIT

ACCESSIBLE PATH OF TRAVEL

EXIT TO EXTERIOR OR TRANSITION BETWEEN SEPARATIONS (HORIZONTAL EXITS OR VERTICAL CIRCULATION)

SIGNAGE

ACCESSIBLE ENTRY SIGN, SEE DETAIL A1 / A10.81

TACTILE EXIT SIGN, SEE DETAIL E8 / A10.81

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FOR WOMEN'S RESTROOM, SEE DETAIL C1 / A10.81, F1 / A10.81

FOR WOMEN'S ALL GENDER, SEE DETAIL E12 / A10.81, G12 / A10.81

EMPLOYEE WORKSTATION

EMPLOYEE WORKSTATION, PROVIDE ACCESSIBLE PATH OF TRAVEL TO EMPLOYEE WORKSTATIONS

NOTES:

1. SEE G0.1 FOR SYMBOLS AND ABBREVIATIONS
2. INTERIOR PATH OF TRAVEL SHALL:
   - A. HAVE MAXIMUM SLOPE TO BE 2%;
   - B. NO WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2";
   - C. IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" ;
   - D. FREE OF OVERHEAD OBSTRUCTION WITHIN 80" ABOVE THE WALKING SURFACE;
   - E. CONTRACTOR TO VERIFY ANY NON-COMPLYING ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

Key Plan

2 KENNELS MEET & GREET

1 ADMINISTRATION

3 INTAKE

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
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California Licensed Architect No. C-27818
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

2- KENNELS & MEET & GREET - REGULATORY COMPLIANCE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

G2.2

CONSTRUCTION DOCUMENTS

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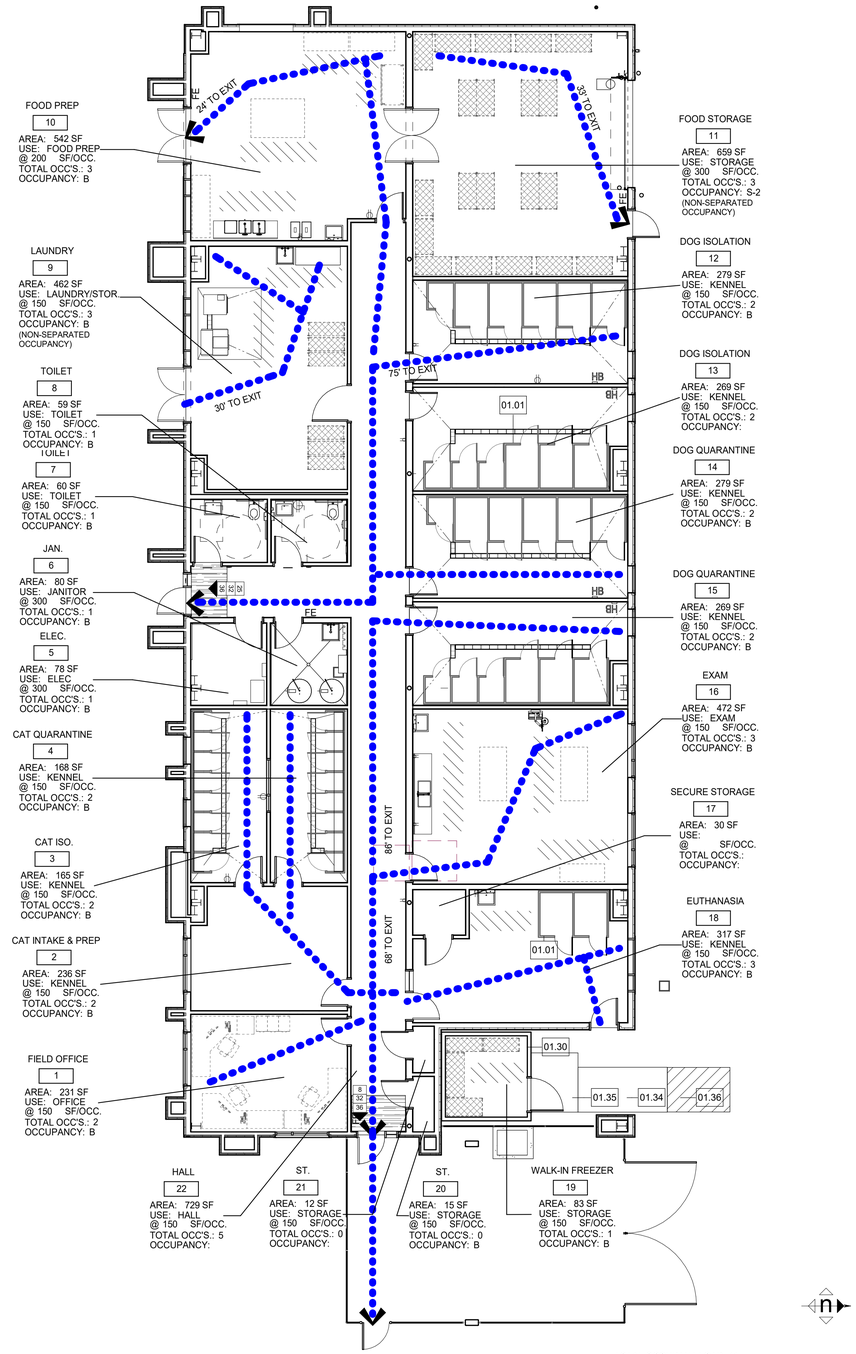

A12 REGULATORY COMPLIANCE FLOOR PLAN
1/8" = 1'-0"

Legend

SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND ON SHEET A4.11.

PATH OF TRAVEL

DISTANCE TO EXIT

0'-0" TO EXIT

ACCESSIBLE PATH OF TRAVEL

EXIT TO EXTERIOR OR TRANSITION BETWEEN SEPARATIONS (HORIZONTAL EXITS OR VERTICAL CIRCULATION)

SIGNAGE

ACCESSIBLE ENTRY SIGN, SEE DETAIL A1 / A10.81

TACTILE EXIT SIGN, SEE DETAIL E8 / A10.81

RESTROOM SIGN - FOR MEN'S RESTROOM, SEE DETAILS H1 / A10.81, L1 / A10.81

FOR WOMEN'S RESTROOM, SEE DETAIL C1 / A10.81, F1 / A10.81

FOR WOMEN'S ALL GENDER, SEE DETAIL E12 / A10.81, G12 / A10.81

EMPLOYEE WORKSTATION

EMPLOYEE WORKSTATION, PROVIDE ACCESSIBLE PATH OF TRAVEL TO EMPLOYEE WORKSTATIONS

NOTES:

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2. INTERIOR PATH OF TRAVEL SHALL:
   - A. HAVE MAXIMUM SLOPE TO BE 2%;
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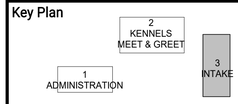
   - C. IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" ;
   - D. FREE OF OVERHEAD OBSTRUCTION WITHIN 80" ABOVE THE WALKING SURFACE;
   - E. CONTRACTOR TO VERIFY ANY NON-COMPLYING ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

Keynotes

NO.	DESCRIPTION
01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
01.30	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, WALL, NIC
01.34	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, RAMP, NIC
01.35	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, LANDING, NIC
01.36	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, LANDING, CLEAR SPACE, NIC

Key Plan



ARCHITECT:
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Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

3-INTAKE - FLOOR PLAN - REGULATORY COMPLIANCE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

G2.3

CONSTRUCTION DOCUMENTS

Drawn by: AH Plotted on: 6/29/2020 12:43:20 PM

CHAPTER 5 DIVISIONS		SECTION TITLE	CODE SECTION	Y	N/A	O	PLAN SHEET, SPEC OR ATTACH REFERENCE
DIVISION 5.1 PLANNING AND DESIGN	MANDATORY	Storm Water Pollution Prevention for projects that distrub less than 1 acre of land.	5.106.1.1, 5.106.1.2		●		
	MANDATORY	Storm Water Pollution Prevention for projects that distrub more than 1 acre of land.	5.106.2	●			SEE CIVIL SPECS
	MANDATORY	Short Term Bicycle Parking	5.106.4.1.1	●			SEE ARCHITECTURAL SHEET G1.1
	MANDATORY	Long Term Bicycle Parking	5.106.4.1.2 though 5.106.4.1.5	●			SEE GENERAL SHEET 2-A2.1
	MANDATORY	Designated Parking for clean air vehicles	5.106.5.2	●			SEE GENERAL SHEET G1.1
	MANDATORY	Parking stall marking	5.106.5.2.1	●			SEE GENERAL SHEET G1.1
	MANDATORY	Single (EV) Charging space requirements	5.106.5.3.1		●		SEE GENERAL SHEET G1.1
	MANDATORY	Multiple (EV) Charging space requirements. [N]	5.106.5.3.2	●			SEE GENERAL SHEET G1.1
	MANDATORY	EV charging space calculation [N]	5.106.5.3.3	●			SEE GENERAL SHEET G1.1
	MANDATORY	[N] Identification	5.106.5.3.4	●			SEE GENERAL SHEET G1.1
	MANDATORY	[N] Future charing spaces (with notes 1-3)	5.106.5.3.5	●			SEE GENERAL SHEET G1.1
	MANDATORY	Light Pollution Reduction [N] (with exceptions and note)	5.106.8	●			SEE ELECTRICAL SHEET E1.1
	MANDATORY	Grading and Paving (exception for additions and alterations not altering the drainage path)	5.106.10	●			SEE CIVIL SHEETS C1.1
	MANDATORY	[N] Shade Trees: Surface parking areas.	5.106.12.1	●			SEE LANDSCAPE SHEET L3.1
	MANDATORY	[N] Shade Trees: Landscape areas.	5.106.12.2	●			SEE LANDSCAPE SHEET L3.1
	MANDATORY	[N] Shade Trees: Hardscape Areas	5.106.12.3	●			SEE LANDSCAPE SHEET L3.1
DIVISION 5.2 ENERGY EFFICIENCY	MANDATORY	Meet the minimum Energy Effiy Standard	5.201.1	●			SEE SHEETS M9.1 & M9.2
DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION	MANDATORY	Separete Meter (new Buildings or additions > 50,000 SF that consume more than 100 gal/day)	5.303.1.1		●		
	MANDATORY	Separete Meter (for tenants in new buildings or additions that consume more than 1,000 gal/day)	5.303.1.2		●		
	MANDATORY	Water closets shall not exceed1.28 gallons per flush (gpf)	5.303.3.1	●			SEE SHEET P10.11
	MANDATORY	Wall-mounted urinals shall not exceed 0.125 gpf	5.303.3.2.1		●		
	MANDATORY	Floor-mounted urinals shall not exceed 0.5 gpf	5.303.3.2.2		●		
	MANDATORY	Single showerhead shall have maximum flow rate (1.8 gpm at 80 psi)	5.303.3.3.1	●			SEE SHEET P10.11
	MANDATORY	Multiple showerhead serving one showershall have combine flow rate of 2.0 gpm at 80 psi.	5.303.3.3.2		●		
	MANDATORY	Nonresidential lavatory faucets	5.303.3.4.1	●			SEE SHEET P10.11
	MANDATORY	Kitchen faucets	5.303.3.4.2	●			SEE SHEET P10.11
	MANDATORY	Wash fountains	5.303.3.4.3		●		
	MANDATORY	Metering faucets	5.303.3.4.4	●			SEE SHEET P10.11
	MANDATORY	Metering faucets for wash fountains	5.303.3.4.5		●		
	MANDATORY	Food waste disposers w/note	5.303.4.1		●		
	MANDATORY	Area of additions and alterations	5.303.5		●		
	MANDATORY	Standards for plumbing fixtures and fittings	5.303.6	●			SEE SHEET P10.11 thru P10.23
	MANDATORY	Outdoor water use in landscape areas equal to or greater than 500 square feet	5.304.2	●			SEE SHEET L-2.1
	MANDATORY	Outdoor water use in rehabilitated landscape projects with areas equal to or greater than 2,500 square feet.	5.304.3		●		
	MANDATORY	Outdoor water use in landscape areas of 2,500 square feet or less	5.304.4		●		
	MANDATORY	Graywater or rainwater use in landscape areas	5.304.5		●		
	MANDATORY	Outdoor potable water use in landscape areas	5.304.6		●		
	MANDATORY	Outdoor water supply systems (with exceptions 1-4)	5.305.1.1		●		
	MANDATORY	Technical requirements for outdoor recycled water supply systems	5.305.1.2		●		
DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	MANDATORY	Weather Protection	5.407.1	●			SEE SHEET A10.11, A10.12
	MANDATORY	Moisture Control: sprinklers	5.407.2.1		●		SEE SHEET L2.1
	MANDATORY	Moisture Control: Exterior door protection	5.407.2.2.1		●		SEE SHEET 1-A2.1, 2-A2.1, 3-A2.1
	MANDATORY	Moisture Control: Flashing	5.407.2.2.2	●			SEE SHEET A10.11, A10.12
	MANDATORY	Construction waste management-comply with either; sections 5.408.1.1, 5.408.1.2, .408.1.3 or more stringent local ordinance	5.408.1.1, 5.408.1.2, 5.408.1.3	●			G.C. TO PROVIDE
	MANDATORY	Construction waste management: Documentation	5.408.1.4			●	G.C. TO PROVIDE
	MANDATORY	Universal waste [A]	5.408.2		●		
	MANDATORY	Excavated soil and land clearing debris (100% reuses or recycle)	5.408.3			●	G.C. TO PROVIDE
	MANDATORY	Recycling by Occupants	5.410.1	●			SEE SHEET 1-A2.1, 2-A2.1, 3-A2.1
	MANDATORY	Recycling by Occupants: Additions (with exception)	5.410.1.1		●		
	MANDATORY	Commissioning new buildings (≥ 10,000 SF) [N] w/ exceptions and notes	5.410.2		●		
	MANDATORY	Owner's or Owner representative's Project Requirements (OPR) [N]	5.410.2.1		●		

CHAPTER 5 DIVISIONS		SECTION TITLE	CODE SECTION	Y	N/A	O	PLAN SHEET, SPEC OR ATTACH REFERENCE
DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	MANDATORY	Basis of Design (BOD) [N]	5.410.2.2		●		
	MANDATORY	Commissioning Plan [N]	5.410.2.3		●		
	MANDATORY	Functional Performance Testing [N]	5.410.2.4		●		
	MANDATORY	Documentation and Training [N]	5.410.2.5		●		
	MANDATORY	Systems Manual [N]	5.410.2.5.1		●		
	MANDATORY	Systems Operation Training [N]	5.410.2.5.2		●		
	MANDATORY	Commissioning Report [N]	5.410.2.6		●		
	MANDATORY	Testing and adjusting for new buildings < 10,000 SF or new systems that serve additions or alterations.	5.410.4	●			SEE SPEC SECTION 230800-PART 3.8
	MANDATORY	System Testing Plan for HVAC, lighting, water heating, renewable energy, landscape irrigation and water reuse	5.410.4.2	●			SEE COMMISSIONG SPEC SECTION 01 91 13.1.2,A.2 & 230800 - PART 3.7
	MANDATORY	Procedures for testing and adjusting	5.410.4.3	●			SEE SPEC SECTION 230800-PART 3.8
	MANDATORY	HVAC balancing	5.410.4.3.1	●			SEE SPEC SECTION 230800-PART 3.8
	MANDATORY	Reporting for testing and adjusting	5.410.4.4	●			SEE SPEC SECTION 230800-PART 3.8
	MANDATORY	Operation and Maintenance (O&M) Manual	5.410.4.5	●			SEE SPEC SECTION 230800-PART 3.8
	MANDATORY	Inspection and reports	5.410.4.5.1	●			SEE SHEETS M1.1
DIVISION 5.5 ENVIRONMENTAL QUALITY	MANDATORY	Fireplaces	5.503.1		●		
	MANDATORY	Woodstoves	5.503.1.1		●		G.C. SUBMITTALS
	MANDATORY	Temporary ventilation	5.504.1	●			G.C. SUBMITTALS
	MANDATORY	Covering of ducts openings and protection of mechanical equipment during construction	5.504.3	●			
	MANDATORY	Adhesives, sealants and caulks	5.504.4.1	●			G.C. SUBMITTALS
	MANDATORY	Paints and coating	5.504.4.3	●			G.C. SUBMITTALS
	MANDATORY	Aerosol paints and coatings	5.504.4.3.1	●			G.C. SUBMITTALS
	MANDATORY	Aerosol paints and coatings: Verification	5.504.4.3.2	●			G.C. SUBMITTALS
	MANDATORY	Carpet systems	5.504.4.4	●			G.C. SUBMITTALS
	MANDATORY	Carpet cushion	5.504.4.4.1	●			G.C. SUBMITTALS
	MANDATORY	Carpet adhesives	5.504.4.4.2	●			G.C. SUBMITTALS
	MANDATORY	Composite wood products	5.504.4.4.2	●			G.C. SUBMITTALS
	MANDATORY	Composite wood products: Documentation	5.504.4.4.2	●			G.C. SUBMITTALS
	MANDATORY	Resilient flooring systems	5.504.4.6	●			G.C. SUBMITTALS
	MANDATORY	Resilient flooring: Verification of compliance	5.504.4.6.1	●			G.C. SUBMITTALS
	MANDATORY	Filters w/ exceptions	5.504.5.3	●			G.C. SUBMITTALS
	MANDATORY	Filters: Laberling	5.504.5.3.1	●			G.C. SUBMITTALS
	MANDATORY	Environmental tobaccosmoke (ETS) control	5.504.7		●		
	MANDATORY	Indoor moisture control	5.505.1	●			A10.11, A10.12
	MANDATORY	Outside air delivery	5.506.1	●			SEE SHEETS M9.1 & M9.2
	MANDATORY	Carbon dioxide (CO2) monitoring	5.506.2	●			SEE SHEETS E
	MANDATORY	Acoustical control w/ exception	5.507.4	●			A1-A10.11
	MANDATORY	Exterior noise transmission, prescriptive method w/ exceptions	5.507.4.1				TBD
	MANDATORY	Noise exposure where noise contours are not readily available	5.507.4.1.1				TBD
	MANDATORY	Performance method	5.507.4.2				TBD
	MANDATORY	Site features	5.507.4.2.1				TBD
	MANDATORY	Documentation of compliance	5.507.4.2.2				TBD
	MANDATORY	Interior sound transmission w/ note	5.507.4.3		●		SEE DETAIL A1-A10.11
	MANDATORY	Ozone depletion and greenhouse gas reductions	5.508.1	●			SEE SHEETS M9.1 & M9.2
	MANDATORY	Chlorofluorocarbons (CFCs)	5.508.1.1	●			SEE SHEETS M9.1 & M9.2
	MANDATORY	Halons	5.508.1.2	●			SEE SHEETS M9.1 & M9.2
	MANDATORY	Supermarket refrigerant leak reduction for retail food stores 8,000 square feet or more sections5.508.2 through 5.508.6.3	5.508.2 through. 508.2.6.3		●		

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES

Application: This checklist shall be used for nonresidential projects that meet the following: new construction, or building additions of 1,000 sp. ft. or greater, or building alterations with a permit valuation of $200,000 or more pursuant to CAI Green Section 5.301.3 AND do not trigger Tier 1 or Tier 2 requirements.

Y = Yes (section has been selected and/or included)
N/A = Not Applicable (Code section does not apply to the project, mainly used for additions and alterations)
O = Other (provide explanation)
[N] = New construction pursuant to Section 301.3
[A] = Addition and/or alterations pursuant to Section 301.3

Documentation Author's / Responsible Designer's Declaration Statement Mandatory:

I attest that the mandatory provisions checklist is accurate and complete

SIGNATURE:

COMPANY:	**Roger Davidson**	DATE:	**6/15/2020**
ADDRESS:	**2220 Tulare Street, 8th Floor**	LICENSE:	**C27818**
CITY/STATE/ZIP:	**FRESNO, CA.**	PHONE:	**559.600.4477**

Legend

2 KENNELS MEET & GREET

1 ADMINISTRATION

3 INTAKE

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren: 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

CAL GREEN BUILDING COMPLIANCE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

G3.1

CONSTRUCTION DOCUMNENTS

Drawn by: AH Plotted on: 6/29/2020 12:48:49 PM

AS-GRADE PLANS, FINAL SOILS REPORT (IF APPLICABLE) AND COMPACTION REPORTS ARE REQUIRED TO BE SUBMITTED AND APPROVED PRIOR TO RECEIVING A "FINAL". "AS-GRADE" REVIEW TIME WILL TAKE APPROXIMATELY ONE WEEK. YOU MAY REQUEST OVERTIME PLAN REVIEW FOR AN ADDITIONAL FEE. A "SAFE-TO-OCCUPY" CAN BE GRANTED BUT WILL REQUIRE A **$15,000.00** CASH DEPOSIT. THE DEPOSIT WILL BE FULLY REFUNDED ONCE THE "AS-GRADE" HAS BEEN APPROVED AND ALL OTHER HOLDS HAVE BEEN CLEARED FOR THE ENTIRE PROJECT. DEPOSITS ARE TYPICALLY REFUNDED FROM THE FINANCE DEPARTMENT IN THE FORM OF A CHECK APPROXIMATELY 1 WEEK AFTER THE REFUND IS REQUESTED. THERE WILL BE A ONE-TIME $60.00 HANDLING FEE FOR THE "SAFE-TO-OCCUPY" TRANSACTION SHOULD IT BE REQUESTED.

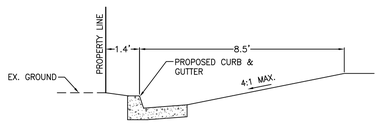
PAVEMENT SECTION:

✳ ✳
3" AC/ 4.5" AB/ 6" C.N.S.

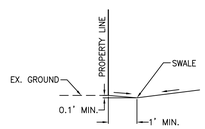
✳ INDICATES 95% RELATIVE COMPACTION

NOTES:

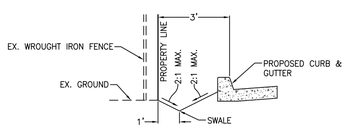
1. ALL GRADING SHALL COMPLY WITH APPENDIX J OF THE 2016 CALIFORNIA BUILDING CODE AND THE PROJECT GEOTECHNICAL REPORTS, WHICHEVER IS MORE STRINGENT.
2. COMPACTION REPORTS PREPARED BY AN APPROVED TESTING AGENCY SHALL BE PROVIDED FOR ALL LOOSE FILLS.
3. PROVIDE TWO PERCENT DRAINAGE AWAY FROM BUILDING PAD FOR TEN FEET MINIMUM.
4. NO DRAINAGE IS TO BE ONTO ADJACENT PROPERTY.
5. THIS DRAINAGE PLAN SHALL NOT HAVE AN ADVERSE EFFECT ON ADJACENT PROPERTY.
6. ANY CHANGES TO THESE PLANS MUST BE APPROVED BY THE DEVELOPMENT DEPARTMENT..
7. PROVIDE THE CITY WITH "AS GRADED" PLANS. PLANS ARE REQUIRED PRIOR TO THE ISSUANCE OF THE BUILDING FINAL.
8. ANY VERTICAL CUT OR FILL DIFFERENTIAL EQUAL TO OR GREATER THAN 12" BETWEEN ADJACENT PROPERTIES SHALL BE SUPPORTED BY AN APPROVED RETAINING WALL. DIFFERENTIALS LESS THAN 12" TO HAVE A MAXIMUM SLOPE OR 1 VERTICAL TO 2 HORIZONTAL.
9. ALL SIDE AND REAR LOT DRAINAGE SWALES ARE TO BE COMPLETED PRIOR TO BUILDING FINAL.
10. ALL FILLS USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER, AND THE PLACEMENT OF FILL SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS QUALIFIED REPRESENTATIVE. A SOIL INVESTIGATION REPORT AND A REPORT OF SATISFACTORY PLACEMENT OF FILL, BOTH ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE SUBMITTED (2016 CALIFORNIA BUILDING CODE)
11. THE OVERALL BUILDING SITE SHALL HAVE A MINIMUM SLOPE OF 1.0% IN ALL AREAS TO AN APPROVED DRAINAGE FACILITY OR A PUBLIC STREET.
12. ALL REQUIRED WALLS AND RETAINING WALLS REQUIRE SEPARATE BUILDING PERMITS IN ADDITION TO THE GRADING PERMIT.
13. PERMITS FOR ALL REQUIRED WALLS SHALL BE OBTAINED PRIOR TO APPROVAL OF THE AS-GRADED PLANS. PERMITS FOR RETAINING WALLS SHALL BE OBTAINED WITHIN 30 DAYS OF GRADING PERMIT ISSUANCE.
14. NO PERMANENT ON-SITE WATER RETENTION IS ALLOWED.
15. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY OF THE SOIL ACCORDING TO ASTM STANDARD D1557.
16. THIS GRADING PLAN IS FOR APPROVAL OF ON-SITE ELEVATIONS ONLY. THE ELEVATIONS SHOWN WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRE SEPARATE PUBLIC WORKS DEPARTMENT APPROVAL & PERMIT. ANY NOTES THAT APPLY TO THE PUBLIC RIGHT-OF-WAY ARE FOR REFERENCE ONLY. IF ON-SITE ELEVATIONS SHOWN DO NOT COINCIDE WITH APPROVED STREET PLANS, AN APPROVED AMENDMENT IS REQUIRED.
17. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DUST AND EROSION CONTROL 24 HOURS A DAY, 7 DAYS A WEEK UNTIL PROJECT IS FINAL.
18. ANY PERSON, CONTRACTOR, OR SUBCONTRACTOR PLANNING TO CONDUCT ANY EXCAVATION SHALL CONTACT USA NORTH AT 811 AT LEAST TWO (2) WORKING DAYS, BUT NO MORE THAN 14 CALENDAR DAY, PRIOR TO COMMENCING EXCAVATION.
19. RECOMMENDATIONS AS OUTLINED IN THE PRELIMINARY SOILS REPORT BY THE COUNTY OF FRESNO, DEPARTMENT OF PUBLIC WORKS AND PLANNING, CONSTRUCTION DIVISION, MATERIALS TESTING LABORATORY, REPORT NO. T90203, DATED APRIL 22, 2020 SHALL BECOME REQUIREMENTS FOR THIS DEVELOPMENT.



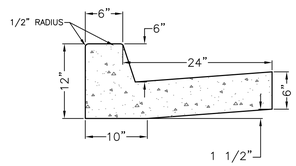
SECTION A-A



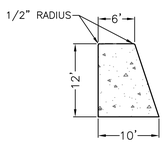
SECTION B-B



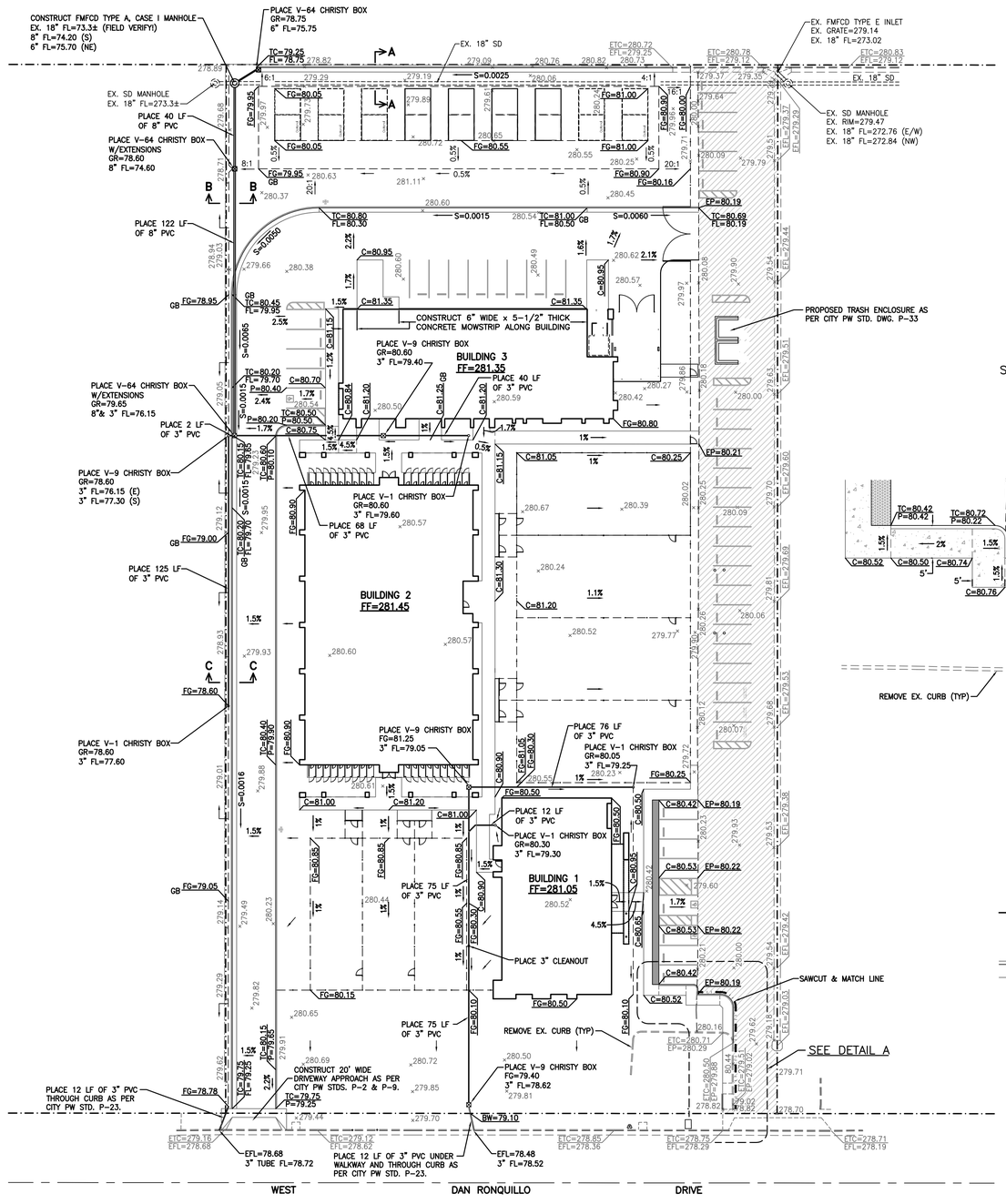
SECTION C-C



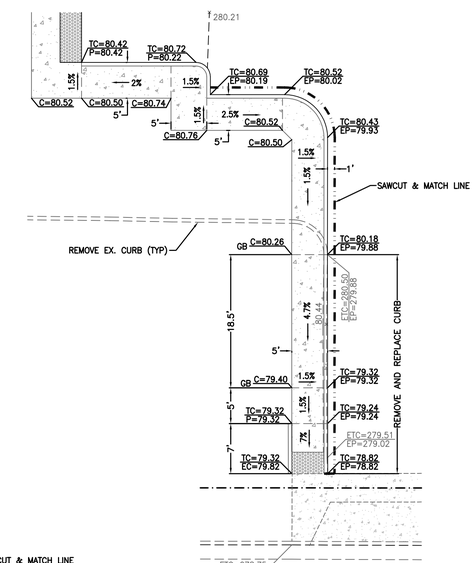
CURB AND GUTTER DETAIL



CURB DETAIL



SCALE: 1" = 30'



DETAIL A
SCALE: 1" = 10'

BENCHMARK:

CITY OF FRESNO TBM 4565 – CHISELED SQUARE ON CURB, WEST RETURN, SOUTHWEST CORNER OF NIELSEN & WEST.

ELEVATION = 280.179 NGVD '29 DATUM

NOTE: ADD 200 TO ALL 4-DIGIT ELEVATIONS FOR U.S.G.S. DATUM

LEGEND:

C	PROPOSED CONCRETE ELEVATION
×280.39	EXISTING GROUND ELEVATION
ETC	EXISTING TOP OF CURB ELEVATION
EFL	EXISTING GUTTER FLOW ELEVATION
FG	PROPOSED FINISH GRADE ELEVATION
FL	PROPOSED FLOWLINE ELEVATION
GB	GRADE BREAK
GR	PROPOSED GRATE ELEVATION
P	PROPOSED PAVEMENT ELEVATION
S	SLOPE
TC	PROPOSED TOP OF CURB ELEVATION
	EXISTING PROPERTY LINE
	EXISTING CURB & GUTTER TO REMAIN
	PROPOSED CURB (SEE DETAIL)
	PROPOSED CURB & GUTTER (SEE DETAIL)
	PROPOSED SWALE
	EXISTING PAVEMENT TO REMAIN

GRADING PLAN

190 WEST DAN RONQUILLO DRIVE

APN 458-060-61 & 458-270-15

ENGINEER:

BRET GIANNETTA R.C.E. 56567 DATE

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT:

DATE

F.M.F.C.D. APPROVAL IS LIMITED TO:

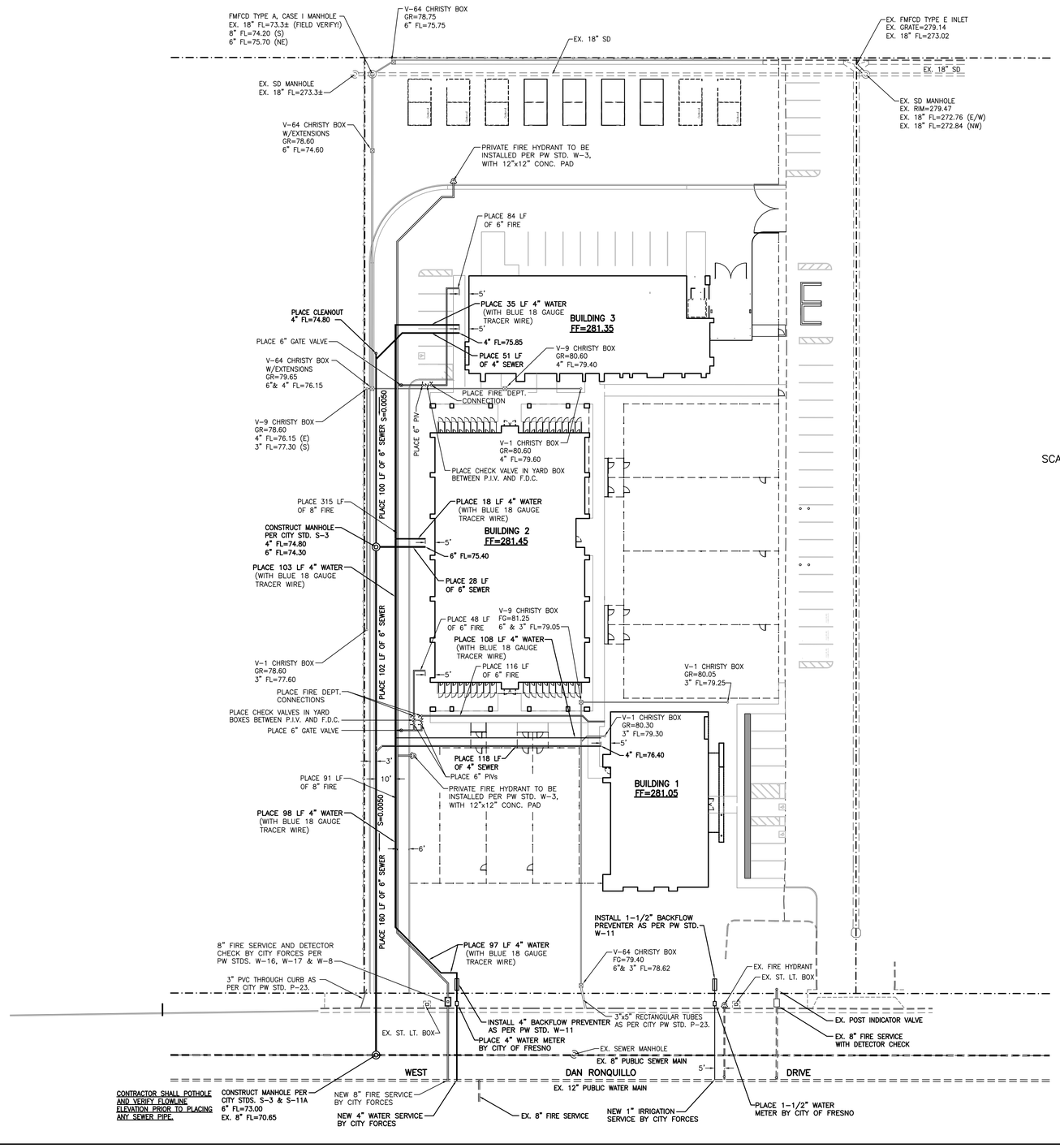
1. ONSITE DRAINAGE AREA BOUNDARIES
2. LOCATION OF DRAINAGE ENTRY INTO PUBLIC STREETS

QUANTITIES (FOR PERMIT PURPOSES ONLY)

EXCAVATION = 500 C.Y.
EMBANKMENT = 500 C.Y.

GARY G. GIANNETTA
CIVIL ENGINEERING & LAND SURVEYING
1119 "S" STREET
FRESNO, CA 93721
(559) 264-3590

SHEET C1.1 DATE: 6/19/20



NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE AND CALIFORNIA PLUMBING CODE.
2. CONTRACTOR SHALL PULL ALL PERMITS REQUIRED BY THE CITY OF FRESNO.
3. SEWER PIPE SHALL BE SDR 135 UNLESS OTHERWISE NOTED.
4. WATER PIPE SHALL BE :
   SMALLER THAN 4" – PVC SCHEDULE 40
   LARGER THAN 4" – PVC C-900
   4" – PVC SCHEDULE 80 OR PVC C-900
5. ALL ONSITE WATER 4" AND LARGER IN DIAMETER SHALL BE CHLORINATED AND TESTED BY AN APPROVED AGENCY AND THE RESULTS SUBMITTED TO THE CITY OF FRESNO DEVELOPMENT PLUMBING SECTION (AWWA C-601)
6. THE CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITIES BEING CONNECTED INTO TO VERIFY THEIR LOCATION PRIOR TO THE CONSTRUCTION OF NEW UTILITIES. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, SUCH AS BUT NOT LIMITED TO SEWER, GAS, TELEPHONE, ELECTRICAL, AND STRUCTURES, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. THRUST BLOCKS SHALL BE USED FOR RUBBER GASKET JOINT WATER
8. SLOPES OF ON-SITE SEWER MAINS (6" AND SMALLER) SHALL BE NOT LESS THAN 1/4 INCH PER FOOT TOWARD THE POINT OF DISPOSAL.
9. A STREET WORK PERMIT IS REQUIRED TO INSTALL DETECTOR CHECKS IN THE PUBLIC RIGHT OF WAY. CONTACT PUBLIC WORKS, 4TH FLOOR, CITY HALL , 2600 FRESNO STREET.
10. PRESSURE TESTING OF FIRE SERVICE UNDERGROUND PIPING SHALL BE DONE AGAINST A BLANK TEST FLANGE AS REQUIRED BY THE CITY OF FRESNO WATER DIVISION.
11. FIRE HYDRANTS SHALL BE INSTALLED PER PUBLIC WORKS STANDARD W-3.
12. MULTIPLE RP DEVICES SERVING A SITE SHALL HAVE PERMANENT METAL TAGS WITH AN ADDRESS FOR EACH BUILDING SERVED.
13. THE RP DEVICES SHALL BE TESTED AND APPROVED BY A CERTIFIED AWWA OR ABPA TESTER WITHIN FIVE DAYS OF INSTALLATION. THIS PROPERTY WILL NOT BE GIVEN OCCUPANCY UNTIL THE LEAD-FREE RP DEVICES ARE TESTED AND DOCUMENTED WITH THE CITY OF FRESNO WATER DIVISION. A LIST OF CERTIFIED TESTERS CAN BE OBTAINED BY CALLING 559-621-5335. TEST RESULTS CAN BE SUBMITTED TO THE CITY OF FRESNO'S WEB SITE AT:
   www.fresno.gov/Government/DepartmentDirectory/PublicUtilities/Watermanagement/Conservation/backflow
   OR BY FAX AT 559-498-1533.
14. THE ABOVE GROUND TRANSITION TO THE FIRE SPRINKLER FLANGE SHALL BE DUCTILE IRON OR UL/FM LISTED TRANSITION PIECE AND SHALL BE INSTALLED BY THE C-16 FIRE SPRINKLER CONTRACTOR.
15. ALL BURIED FIRE SERVICES SHALL BE INSTALLED PER NFPA 13, 2019 EDITION, WITH 36' MINIMUM COVER TO THE TOP OF THE PIPE.
16. ALL TESTING AGAINST THE DETECTOR CHECK IS PROHIBITED. PROVIDE BLIND FLANGES OR TEMPORARY CAPS FOR TESTING PURPOSES.
17. ALL BURIED SERVICES SHALL BE TESTED AT 200 PSI FOR TWO HOURS.
    ALL BURIED FIRE SERVICE PIPING SHALL BE SCH 80 PVC FOR LESS THAN 4" DIAMETER AND C900 DR18 FOR 4' TO 12" DIAMETER PIPES.
18. A STREET WORK PERMIT IS REQUIRED FOR THE INSTALLATION OF THE DETECTOR CHECK, WHENEVER IT IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY.

N

SCALE: 1" = 30'

BENCHMARK:

CITY OF FRESNO TBM 4565 – CHISELED SQUARE ON CURB, WEST RETURN, SOUTHWEST CORNER OF NIELSEN & WEST.

ELEVATION = 280.179 NGVD '29 DATUM

NOTE: ADD 200 TO ALL 4-DIGIT ELEVATIONS FOR U.S.G.S. DATUM

LEGEND:

EFL	EXISTING PIPE FLOW ELEVATION
EX. FH	EXISTING FIRE HYDRANT
FL	PROPOSED PIPE FLOW ELEVATION
FS	FIRE SERVICE
S	SLOPE
EX. 14" W	EXISTING WATER LINE
	PROPOSED WATER LINE
EX. 8" S	EXISTING SEWER LINE
	PROPOSED SEWER LINE
	PROPERTY LINE
	PROPOSED STORM DRAIN (SEE GRADING PLAN)

UTILITY PLAN

190 WEST DAN RONQUILLO DRIVE

APN 458-060-61 & 458-270-15

ENGINEER:

BRET GIANNETTA R.C.E. 56567 DATE

GARY G. GIANNETTA
CIVIL ENGINEERING & LAND SURVEYING
1119 "S" STREET
FRESNO, CA 93721
(559) 264-3590

SHEET C1.2 DATE: 6/12/20

ABBREVIATIONS

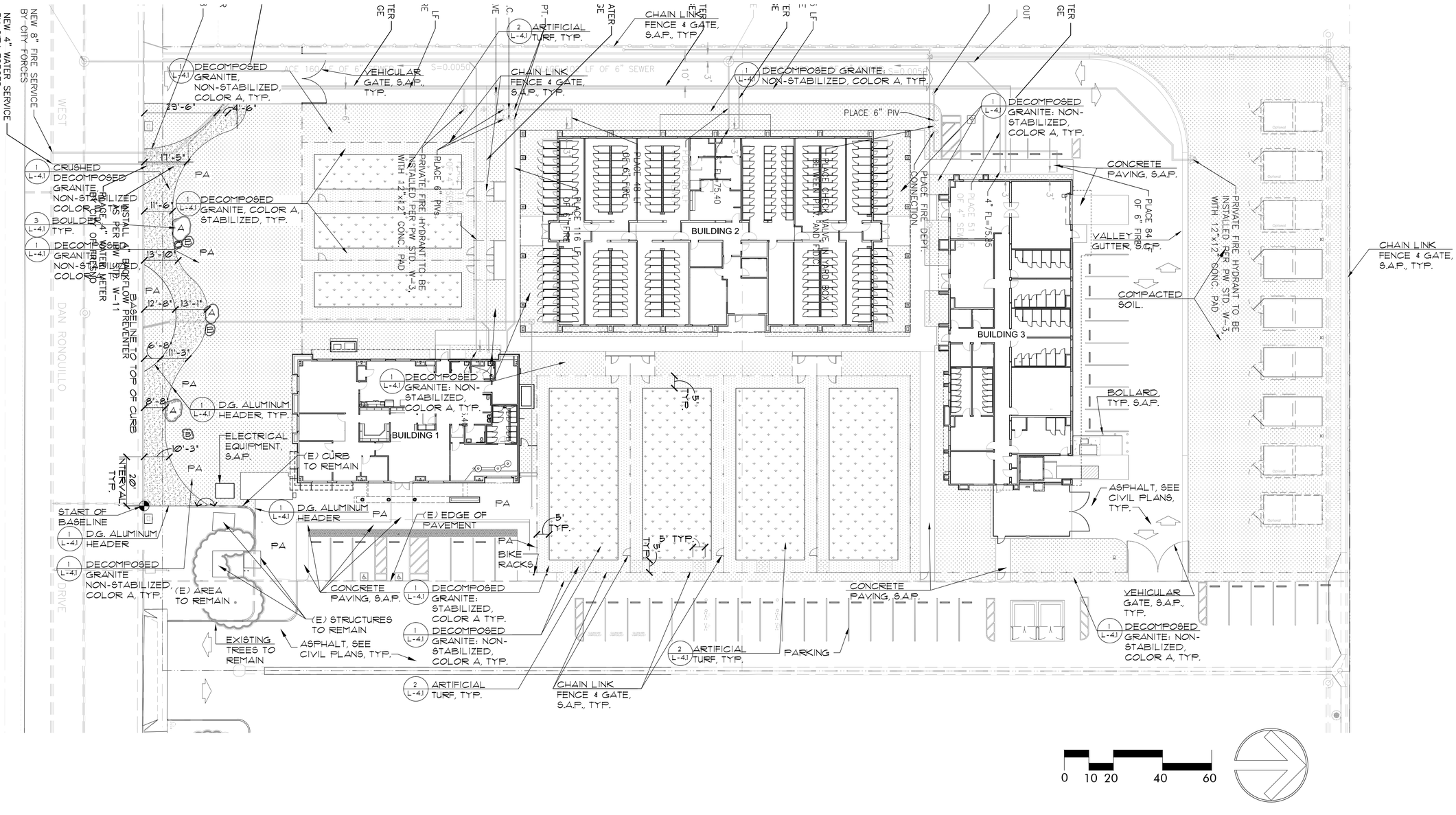
(E)	EXISTING
PA	PLANTING AREA
P.O.B.	POINT OF BEGINNING
S.A.P.	SEE ARCHITECTURAL PLANS
S.C.O.	SEE CIVIL PLANS
TYP.	TYPICAL

PAVING

	DECOMPOSED GRANITE, NON-STABILIZED COLOR A	SUNSET GOLD, 1/4" TO DUST. AVAILABLE THROUGH: WWW.LYNGSOGARDEN.COM
	DECOMPOSED GRANITE, STABILIZED COLOR A	SUNSET GOLD, 1/4" TO DUST. AVAILABLE THROUGH: WWW.LYNGSOGARDEN.COM
	CRUSHED GRANITE COLOR B	CRUSHED GREY, 1/4" AVAILABLE THROUGH: WWW.LYNGSOGARDEN.COM

NOTE

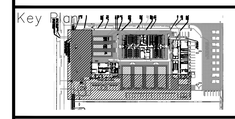
LANDSCAPING MUST BE IN PLACE BEFORE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. A HOLD ON OCCUPANCY SHALL BE PLACED ON THE PROPOSED DEVELOPMENT UNTIL SUCH TIME THAT LANDSCAPING HAS BEEN APPROVED AND VERIFIED FOR PROPER INSTALLATION BY THE DEVELOPMENT SERVICES DIVISION.



Legend

Keynotes

Key Plan



REGISTERED LANDSCAPE ARCHITECT R. TERRENCE CAMP NO. 4494 REN. 09/30/20 STATE OF CALIFORNIA

camp & camp associates
planning & landscape architecture
2520 CAMINO DIABLO
WALNUT CREEK, CALIFORNIA 94597
(925) 941-6468 FAX (925) 941-6455
email: tc@campandcamp.com

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

LAYOUT PLAN

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

L-1.1

CONSTRUCTION DOCS

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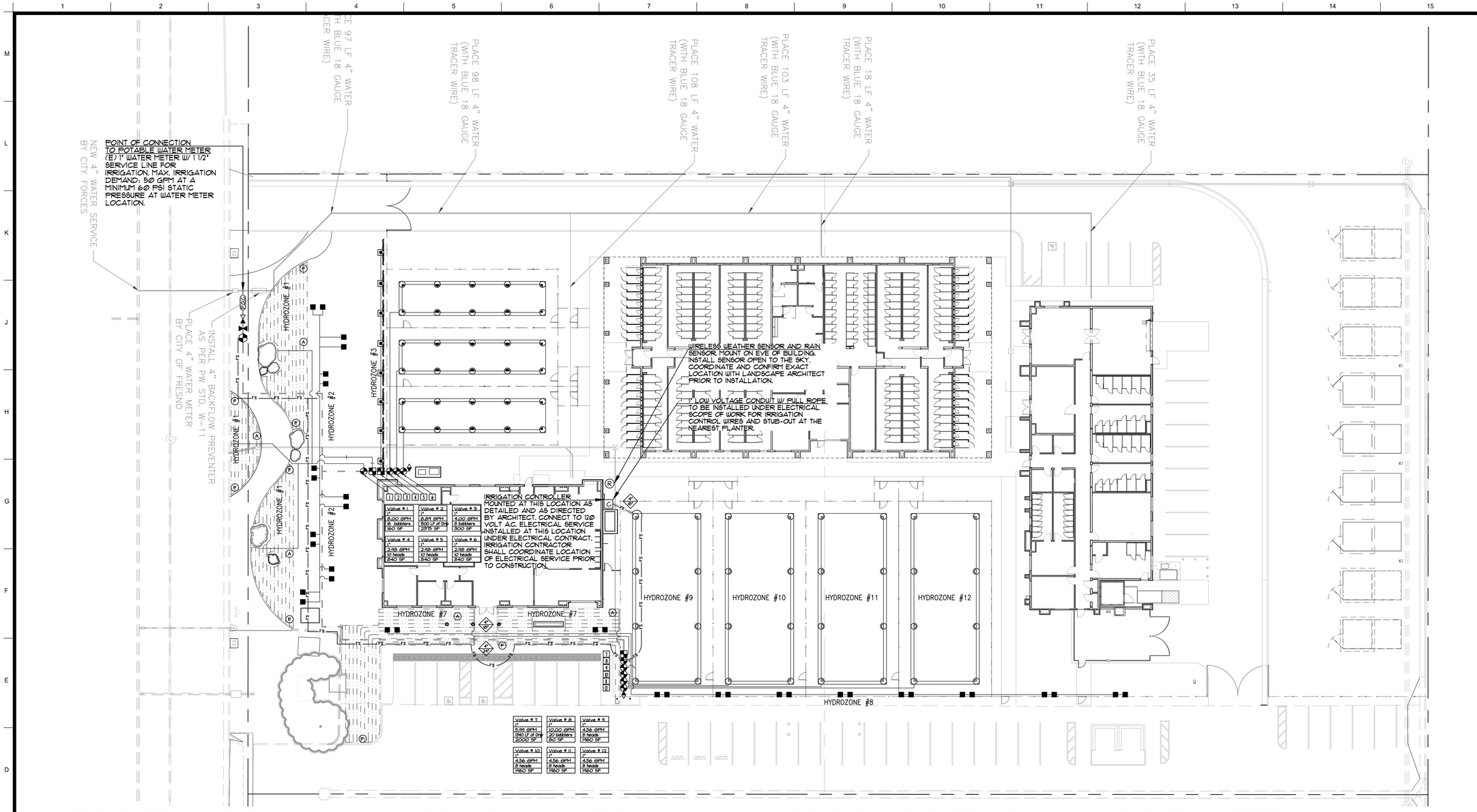

IRRIGATION LEGEND

SYMBOL	PATTERN	MFG	MODEL#	NOZZLE	PSI	GPM	DETAIL
	Quarter	Hunter	PROS-06-PRS40	MP1000	40	0.19	8 / L-2.2
	Half	Hunter	PROS-06-PRS40	MP1000	40	0.37	8 / L-2.2
	Quarter	Hunter	PROS-06-PRS40	MP2000	40	0.40	8 / L-2.2
	Half	Hunter	PROS-06-PRS40	MP2000	40	0.74	8 / L-2.2
	Flood	Toro	FB-50-PC	-	50	0.50	8 / L-2.2
	Toro	Bubbler (Two Per Tree)		5705-FB-50-PC			2 / L-2.2
	Toro	Remote Control Valve		P220			5 / L-2.2
	Toro	Drip Zone Valve Kit Flow = 0.1 - 8.00 GPM		DZK-100-1-LF			4 / L-2.2
	Netafim	2" Hydrometer w/ Master Valve & Flow Sensor		LHM2TG0085-MEL			6 / L-2.2
	Wilkins	Reduced Pressure Backflow Preventer 'VIT' Strongbox Enclosure and Freeze Blanket		975XLSE			1-2 / L-2.3
Not Shown	-	Ball valve - one at each valve manifold		Line size			-

IRRIGATION LEGEND, continued

SYMBOL	MFG	DESCRIPTION	MODEL NO.	DETAIL
	Toro	DL2000 series dripline with Tri-Loc fittings	RGP-212-05	1-3 / L-2.4
F	Toro	Full Port PVC Ball valve in valve box for manual flushing	T-FJ116	6 / L-2.4
A	Toro	Full Port PVC Ball valve in valve box for manual flushing	YD-500-34	6 / L-2.4
	Leemco	Gate Valve	LGT-XX-SS	1 / L-2.2
	Toro	Quick Coupling Valve	100-5LSC	5 / L-2.3
C	Hunter	Irrigation Controller	PCC-12-00-I	3 / L-2.3
R	Hunter	Solar Sync	WSS	4 / L-2.3
P.O.C.		Point of Connection		
		PVC Sleeving	See Sleeving Callout	
4" / 24"	Sleeve Size / Sleeve Depth	Sleeving Callout		
Valve # / Valve Size / GPMs / # of bubblers / Linear Footage of drip line / SF of zone	I	Valve Callout & Tag		
FS		Flow Sensor/ Master Cable	Approximate routing of flow sensor and master valve wires in separate 1" conduits.	

IRRIGATION LINE SIZING

		DESCRIPTION	GPM
	New Mainline	2" 1120 SCH. 40 PVC W/ SCH. 40 fittings under 18" cover	
	New	3/4" 1120 SCH. 40 PVC W/ SCH. 40 fittings under 12" cover 18" under pavement	0-8
	New	1" 1120 SCH. 40 PVC W/ SCH. 40 fittings under 12" cover 18" under pavement	8-12
	New	1 1/4" 1120 SCH. 40 PVC W/ SCH. 40 fittings under 12" cover 18" under pavement	12-22
	New	1 1/2" 1120 SCH. 40 PVC W/ SCH. 40 fittings under 12" cover 18" under pavement	22-30
	New	2" 1120 SCH. 40 PVC W/ SCH. 40 fittings under 12" cover 18" under pavement	30-50

"I agree to comply with the requirements of the Water Efficient Landscape Ordinance and submit a complete Landscape Documentation Package ."

Signature:

R. Terrence Camp
Landscape Architect No. 4494

IRRIGATION NOTES

1. SEE SHEET L-2.1 FOR IRRIGATION NOTES.
2. SEE SHEET L-2.1 FOR LANDSCAPE DOCUMENTATION PACKAGE.

GRAPHIC CLARITY NOTE

IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITHIN SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.

0 10 20 40 60

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

IRRIGATION PLAN

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-2.0

CONSTRUCTION DOCS

Drawn by: Plotted on:

LANDSCAPE DOCUMENTATION PACKAGE CHECK LIST

- X 1. Water Efficient Landscape Worksheet
  - -Hydrozone Information Table
  - -ETWU & MAWA
- X 2. Landscape Design Plan
- X 3. Irrigation Design Plan
- TBD 4. Grading Plan
- TBD 5. Soil Management Report
- X 6. Certificate of Compliance
- ____ 7. Certificate of Completion

  (Upon approval of Landscape Documentation Package by the local agency, the project applicant shall:

  (1) Receive a permit or approval of the plan check or design review and record the date of the permit in the Ceritficate of Completion.

  (2) Submit a copy of the approved Landscape Documentation Package along with the record drawings and any other information to the property owner or his/her designee.

  (3) Submit a copy of the Water Efficient Landscape Worksheet to the local water purveyor.

"I agree to comply with the requirements of the Water Efficient Landscape Ordinance and submit a complete Landscape Documentation Package ."

Signature:

R. Terrence Camp
Landscape Architect No. 4494

"A Landscape Irrigation Audit is required. This Audit must be completed by a third party Certified Landscape Irrigation Auditor, not the designer or installer. The Audit must be submitted to the Building Department, with a Certificate of Completion (Appendix C) as required by the Department of Water Resources, prior to scheduling a Final Inspection of the Water Efficient Landscape permit."

HYDROZONE INFORMATION TABLE

HYDROZONE	ZONE OR VALVE	IRRIGATION METHOD	AREA (SQ. FT.)	% OF LANDSCAPE AREA
LW	1	D	160	1.05%
LW	2	B	2375	15.55%
MW	3	B	300	1.96%
LW	4	S	840	5.50%
LW	5	S	840	5.50%
LW	6	S	840	5.50%
LW	7	D	2000	13.09%
LW	8	B	80	0.52%
LW	9	S	1960	12.83%
LW	10	S	1960	12.83%
LW	11	S	1960	12.83%
LW	12	S	1960	12.83%
		TOTAL	15275	100.00%

*HYDROZONE
HW = HIGH WATER USE PLANTS
MW = MODERATE WATER USE PLANTS
LW = LOW WATER USE PLANTS

** IRRIGATION METHOD
MS = MICRO SPRAY
S = SPRAY
R = ROTORS
B = BUBBLERS
D = DRIP
O = OTHER

WATER EFFICIENT LANDSCAPE WORKSHEET

Project Name: Fresno ACC

Reference Evapotranspiration (Eto) 51.1 **(Eto)**

Hydrozone# /Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sf)	ETAF x Area	Estimated Total Water Use (ETWU)
Regular Landscape Areas							
#1 Shrubs	0.30	Drip	0.85	0.35	160.00	56.47	1,789.10
#2 Trees	0.30	Bubbler	0.80	0.38	2,375.00	890.63	28,216.78
#3 Vines	0.50	Bubbler	0.80	0.63	300.00	187.50	5,940.38
#4 Artificial Turf	0.10	Spray	0.71	0.14	840.00	118.31	3,748.29
#5 Artificial Turf	0.10	Spray	0.71	0.14	840.00	118.31	3,748.29
#6 Artificial Turf	0.10	Spray	0.71	0.14	840.00	118.31	3,748.29
#7 Shrubs	0.30	Drip	0.85	0.35	2,000.00	705.88	22,363.76
#8 Trees	0.30	Bubbler	0.85	0.35	80.00	28.24	894.55
#9 Artificial Turf	0.10	Spray	0.71	0.14	1,960.00	276.06	8,746.02
#10 Artificial Turf	0.10	Spray	0.71	0.14	1,960.00	276.06	8,746.02
#11 Artificial Turf	0.10	Spray	0.71	0.14	1,960.00	276.06	8,746.02
#12 Artificial Turf	0.10	Spray	0.71	0.14	1,960.00	276.06	8,746.02
				Totals	15,275.00	3,327.87	105,433.52
Special Landscape Areas							
						EWTU TOTAL	105,433.52
			Maximum Allowed Water Allowance (MAWA)				266,168.40

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	3,327.87
Total Area	15,275.00
Average ETAF	**0.22**

All Landscape Areas	
Total ETAF x Area	3,327.87
Total Area	15,275.00
Sitewide ETAF	**0.22**

MAWA (Annual Gallons Allowed) =
(Eto x 0.62) ((ETAF x LA) + ((1-ETAF) x SLA))
ETAF for residential = 0.55
ETAF for non-residential = 0.45

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas and 0.45 or below for non-residential areas

PROJECT INFORMATION

DATE: May 12, 2020	
PROJECT APPLICANT:	Ann Huber
	10796 N Tea Party Ln.
	Fresno, CA 93730
	559-470-7721
	annh@ash-architects.com
PROJECT OWNER:	County of Fresno
	2220 Tulare St., 8th Floor
	Fresno, CA 93721
PROJECT ADDRESS:	190 W. Dan Ronquillo Drive
TOTAL LANDSCAPE AREA:	25,500 SF
TOTAL IRRIGATED AREA:	15,275 SF
PROJECT TYPE: NEW, PRIVATE	
WATER SUPPLY: Potable, City of Fresno	

IRRIGATION NOTES

1. Irrigation equipment may be shown within hardscape for graphic clarity only. Install all irrigation equipment within planted areas. Irrigation pipe and wire crossing beneath hardscape surfaces shall be contained within sleeving or schedule 40 pvc conduit. Sleeving size shall be a minimum of two times the aggregate diameter of all pipes contained within sleeve. Provide vertical sweep for all electrical conduit on each side of hardscape and terminate ends at 12" minimum depth and 12" from hardscape surface.
2. Unsized lateral line piping located down stream of 1" piping shall be 1" in size (Typical).
3. Planting is not to start until the irrigation system is fully operational and the hydrostatic pressure test, coverage review, and grading review is completed and approved by the City Engineer.
2. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that obstructions, grade differences or differences in area dimensions exist that might not have been considered in the engineering. such obstructions or differences shall be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revision necessary.
3. It is the responsibility of the irrigation contractor to familiarize himself with all grade differences, location of walls, etc. he shall coordinate his work with the general contractor and other sub-consultants for the location of pipe sleeves through walls and under roadways, paving, structures, etc.
4. The irrigation contractor shall flush and adjust all sprinkler heads for optimum performance and to prevent overspray onto walks, roadways, and/or buildings as much as possible. this shall include selecting the best degree of arc to fit the existing site conditions and to throttle the flow control at each valve to obtain the optimum operating pressure for each system.
5. Notify Architect of any aspect of the layout that will provide incomplete or insufficient water coverage of plant material and do not proceed until instructions are obtained.
6. Install valve boxes 12" from and perpendicular to walk, curb, lawn, building or landscape feature. at multiple valve groups, each box shall be an equal distance from the walk, curb, lawn, etc. and each box shall be 12" apart. short side of valve box shall be parallel to walk, curb, lawn, etc.
8. Provide installation by persons familiar with irrigation work and under the supervision of a qualified supervisor.
9. Obtain the permits required and provide labor and materials necessary to fully complete the work in accordance with the drawings and the specifications.
10. Locate and protect new and existing utilities prior to excavation.
11. Do not damage existing utilities, paving or structures. provide the necessary repairs at no additional cost to the city.
12. Remove debris and accumulation of debris as a result of irrigation construction from the site and leave area in a clean condition acceptable to the city engineer.
13. Maintain site for calendar days as specified, following acceptance of work by the city and make corrections or repairs to the irrigation as directed by the City Engineer at the completion of the maintenance period.
14. The drawings are diagrammatic. equipment shown in paving is for clarity only - install in planting areas where possible. Due to the scale of the drawings, all offsets, fittings, sleeves, etc. which may be required are not indicated. investigate the structural and finished conditions affecting the contract work including obstructions, grade differences or area differences which may have not been considered in the engineering. Where field changes exist, coordinate the installation work accordingly by notification and approval of the the city engineer as per the contract specifications. coordinate irrigation contract work with all applicable contractors for the location and installation of pipe, conduit, or sleeves of pipe, conduit or sleeves through or under walls, roadways, paving, structure, etc. before construction. assume full responsibility for required revisions if these notifications are not performed.
15. Plastic valve boxes are to be green in color with bolt down, non-hinged cover marked "irrigation". box body shall have knock outs. manufacturer: carson or approved equal. Valve numbers are to be branded on valve box lid or each valve shall have a valve tag.
16. Flush and adjust sprinkler heads for efficient performance. prevent over spray on the walks, roadways, signs, lights, and/or buildings. select the best degree of arc to fit the existing site conditions and throttle the flow control or pressure regulation device at each valve to obtain the best operating pressure for each system.

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
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3020 CAMINO DIABLO
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

LANDSCAPE DOCUMENTATION PACKAGE (MWELO)

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

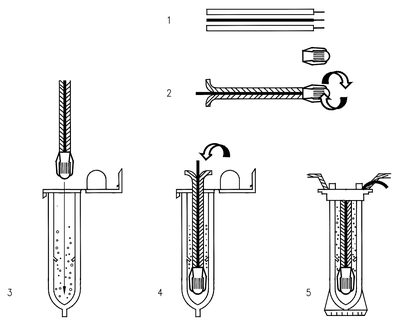
THE COUNTY OF FRESNO 1856

Sheet No:

L-2.1

CONSTRUCTION DOCS

Drawn by: Plotted on:

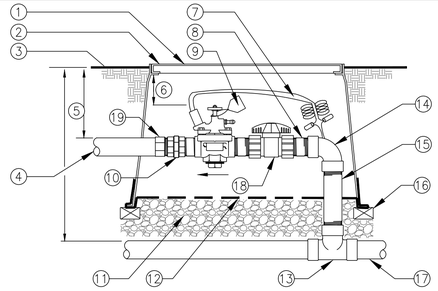


INSTRUCTIONS:

1. STRIP WIRES APPROXIMATELY 1/2" (13 mm) TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

7 WEATHERPROOF WIRE SPLICE ASSEMBLY

SCALE: NONE



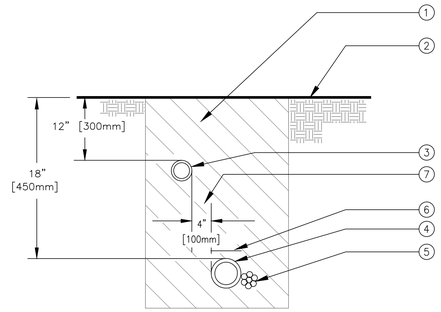
1. REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED (PRESSURE REGULATOR WHERE SHOWN ON PLANS).
2. USE A 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID FOR 1" VALVES. FOR 1.5" AND LARGER VALVES INSTALL BALL VALVE WITHIN A SEPARATE 10" ROUND BOX OR ONE BALL VALVE PER MANIFOLD OF VALVES. GATE VALVE SIZE SHALL BE SAME AS LARGEST VALVE WITHIN MANIFOLD. ONE VALVE PER BOX– NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. FINISH GRADE.
4. PVC LATERAL LINE.
5. REFER TO IRRIGATION SPECS.
6. 3" [75mm] MIN, 6" [150mm] MAX.
7. VALVE CONTROL WIRE– PROVIDE SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
8. SCHEDULE 80 PVC NIPPLE (3 TOTAL).
9. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
10. SCHEDULE 80 PVC THREADED UNION.
11. PEA GRAVEL OR 3/4" DRAIN ROCK– 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
12. 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
13. UPC APPROVED SCHEDULE 40 PVC TEE.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. SCHEDULE 80 PVC NIPPLE– LENGTH AS REQUIRED.
16. BRICK–1 EACH CORNER.
17. PVC MAIN LINE.
18. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).
19. SCHEDULE 40 MALE ADAPTER

5 REMOTE CONTROL VALVE

SCALE: NONE

NOTES:

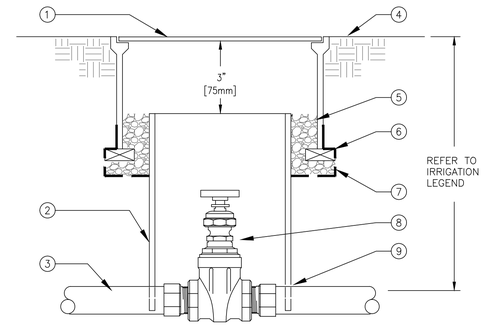
1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT.



1. CLEAN BACKFILL MATERIAL.
2. FINISH GRADE.
3. LATERAL LINE.
4. MAIN LINE.
5. LOW VOLTAGE CONTROL WIRE. TAPE AND BUNDLE TUBING OR WIRING AT 10 FT. INTERVALS. WIRING SHALL BE LAID OUT LOOSELY IN THE TRENCH.
6. DETECTABLE WARNING TAPE OVER MAIN LINE – 3" [75mm] ABOVE PIPE.
7. TYPICAL DISTANCE BETWEEN PIPES.

3 TRENCHING

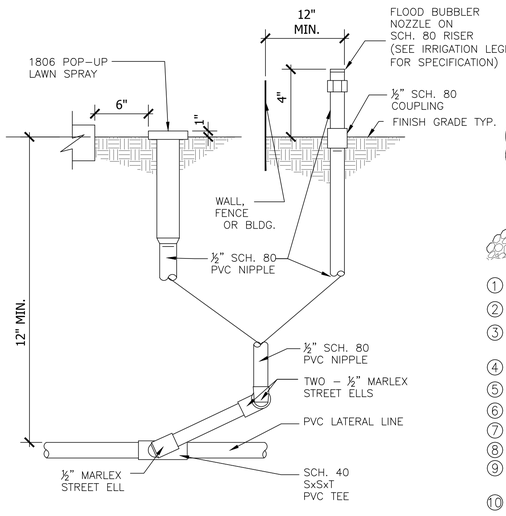
SCALE: NONE



1. 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
2. 8" [200mm] CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).
3. PVC MAIN LINE.
4. FINISH GRADE.
5. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK – 4" [100mm] DEEP (NO SOIL IN VALVE BOX).
6. BRICK–2 TOTAL.
7. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
8. GATE VALVE.
9. MALE ADAPTER. REFER TO LEGEND FOR FITTING TYPE.

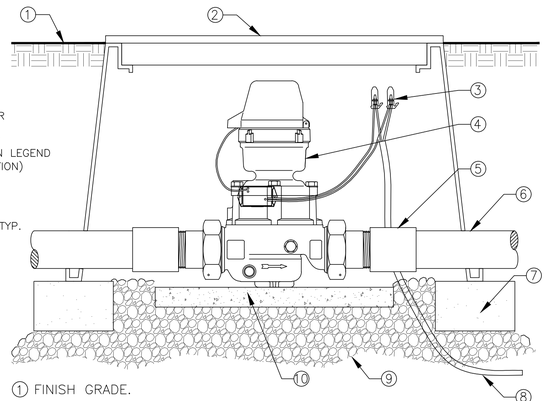
1 GATE VALVE

SCALE: NONE



8 SPRINKLER/BUBBLER INSTALLATION

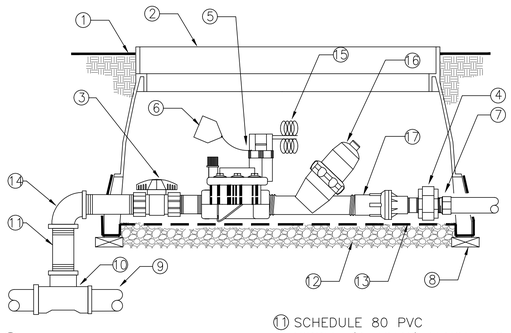
SCALE: NONE



1. FINISH GRADE.
2. 14" x 19" VALVE BOX.
3. RED TO RED AND BLACK TO BLACK ENCAPSULATED IN WATER PROOF SPLICE CAP IN POSITION SHOWN. DBR–6 OR EQUAL.
4. HYDROMETER W/MASTER VALVE AND FLOW SENSOR.
5. PVC FIPT ADAPTOR.
6. SCHEDULE 40 PVC MAINLINE.
7. BRICK–1 EACH CORNER.
8. LOW VOLTAGE WIRE OR TWO WIRE PATH TO CONTROLLER.
9. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK – 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
10. CONCRETE PAVER.

6 HYDROMETER INSTALLATION - 2" & SMALLER

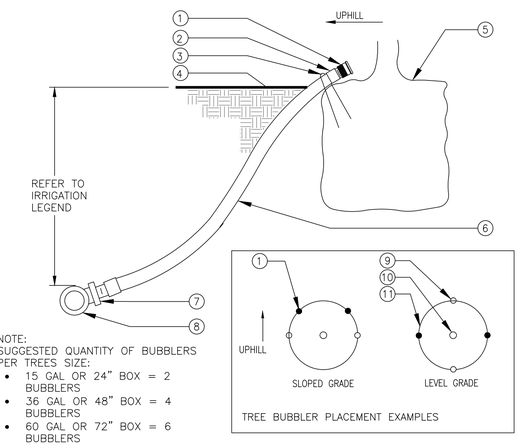
SCALE: NONE



1. FINISH GRADE
2. RECTANGULAR JUMBO PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX– NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE)
4. SCHEDULE 80 PVC THREADED UNION
5. REMOTE CONTROL VALVE
6. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
7. SCHEDULE 40 MALE ADAPTER
8. BRICK–1 EACH CORNER.
9. PVC MAIN LINE.
10. UPC APPROVED SCHEDULE 40 PVC TEE.
11. SCHEDULE 80 PVC NIPPLE–(4–TOTAL) LENGTH AS REQUIRED.
12. PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK – 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
13. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. VALVE CONTROL WIRE– PROVIDE 3M–DBY SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
16. DISC FILTER
17. PRESSURE REGULATOR (40 PSI)

4 REMOTE CONTROL VALVE (DRIPZONE)

SCALE: NONE



NOTE:
SUGGESTED QUANTITY OF BUBBLERS PER TREES SIZE:

- 15 GAL OR 24" BOX = 2 BUBBLERS
- 36 GAL OR 48" BOX = 4 BUBBLERS
- 60 GAL OR 72" BOX = 6 BUBBLERS

1. BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL).
2. 1/2" [13mm] SCH. 40 MALE ADAPTER.
3. 6" [150mm] STEEL STAPLE.
4. FINISH GRADE.
5. TREE ROOTBALL.
6. 1/2" [13mm] IPS FLEXIBLE PVC.
7. PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.
8. PVC LATERAL LINE.
9. TREE STAKES.
10. TREE
11. EDGE OF ROOTBALL (TYPICAL).

2 TREE BUBBLER

SCALE: NONE

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
planning & landscape architecture
2020 CAMINO DIABLO
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

IRRIGATION DETAILS

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-2.2

CONSTRUCTION DOCS

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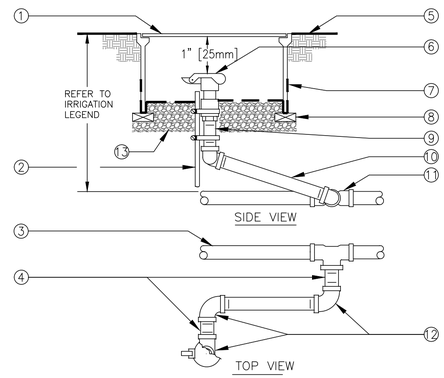
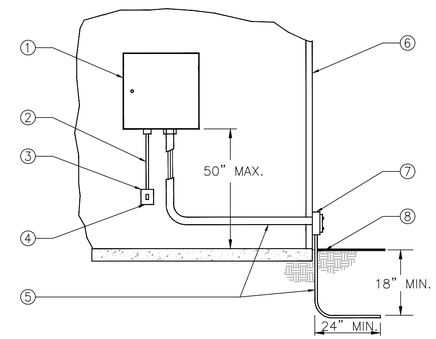


1. 10" BLACK ROUND PLASTIC VALVE BOX WITH BLACK BOLT DOWN LID.
2. 1 1/4" x 1 1/4" x 3/16" [30mm x 30mm x 5mm] ANGLE IRON 30" [760mm] LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV).
3. PVC MAIN LINE.
4. 3" [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
5. FINISH GRADE.
6. QUICK COUPLING VALVE.
7. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
8. BRICK – 2 TOTAL.
9. SCHEDULE 80 PVC THREADED NIPPLE.
10. 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
11. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.
12. SCHEDULE 80 PVC THREADED 90° ELL.
13. PEA GRAVEL OR 3/4" DRAIN ROCK– 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).

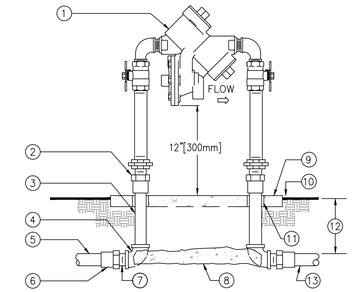
NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.

5 QUICK COUPLING VALVE
SCALE: NONE



1. IRRIGATION CONTROLLER
2. 120 VOLT SERVICE IN RIGID STEEL CONDUIT
3. 120 VOLT LOCKABLE ON/OFF SWITCH PROVIDED UNDER IRRIGATION CONTRACT
4. 120 VOLT SERVICE TO CONTROLLER LOCATION PROVIDED BY ELECTRICAL CONTRACTOR
5. SCHEDULE 40 GREY PVC ELECTRICAL CONDUIT FOR LOW VOLTAGE WIRE
6. EXTERIOR WALL
7. ELECTRICAL PULL BOX PER ELECTRICAL CODE
8. FINISH GRADE

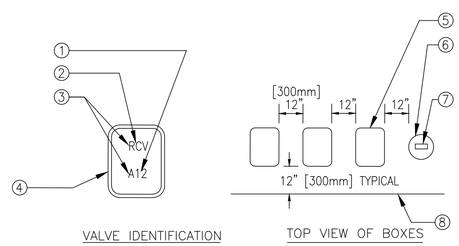
3 CONTROLLER - INTERIOR WALL MOUNTED
SCALE: NONE



1. REDUCED PRESSURE BACKFLOW ASSEMBLY.
2. WROUGHT COPPER MALE ADAPTER–2 TOTAL (SOLDER x THREAD CONNECTION).
3. COPPER TYPE "K" PIPE (LENGTH AS REQUIRED).
4. WROUGHT COPPER 90° ELBOW–2 TOTAL (SOLDER x THREAD CONNECTION).
5. PVC MAIN LINE TO POINT OF CONNECTION.
6. BUSH AS NECESSARY FOR SIZE TRANSITION.
7. SCHEDULE 40 PVC MALE ADAPTER–2 TOTAL.
8. CONCRETE SUPPORT BLOCK.
9. CONCRETE PAD–SEE ENCLOSURE DETAIL.
10. FINISH GRADE.
11. PVC SLEEVE BOTH SIDES.
12. REFER TO IRRIGATION LEGEND
13. PVC MAIN LINE TO IRRIGATION SYSTEM.

NOTES:
1. INSTALL A FREEZE PREVENTATIVE BLANKET AROUND BACKFLOW ASSEMBLY. BLANKET SHALL BE GREEN.
2. DO NOT SOLDER CONNECT FITTINGS WHILE THREADED INTO BACKFLOW ASSEMBLY. THIS MAY CAUSE DAMAGE TO DEVICE.
3. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS BACKFLOW ASSEMBLY.
4. PROVIDE A STAINLESS STEEL ENCLOSURE TO COMPLETELY ENCLOSE DEVICE. INSTALL ENCLOSURE TO CONCRETE BASE AS DIRECTED BY MANUFACTURER.

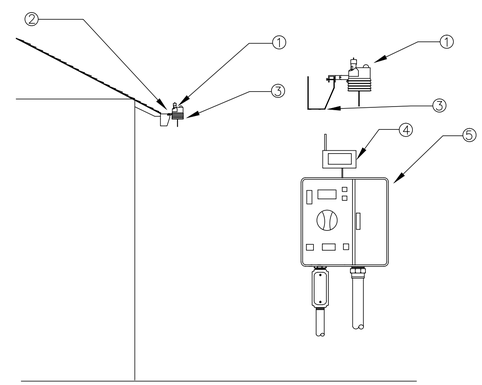
1 REDUCED PRESSURE BACKFLOW ASSEMBLY
SCALE: NONE



1. CONTROLLER AND STATION
2. VALVE TYPE
3. HEAT BRAND LETTERS AND NUMBERS INTO LID.
4. VALVE BOX COVER
5. RECTANGULAR VALVE BOX
6. ROUND VALVE BOX FOR QCV AND GATE VALVE.
7. HEAT BRAND LETTERS AND NUMBERS INTO LID (TYPICAL).
8. EDGE OF LAWN, WALK, FENCE, CURB, ETC.

INSTRUCTIONS:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" [25mm] ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

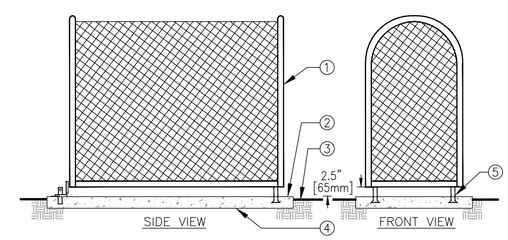
6 VALVE BOX INSTALLATION
SCALE: NONE



NOTE: MAXIMUM LINE OF SIGHT FROM SENSOR TO RECEIVER IS 1000 FT. DISTANCE IS LESS IF OBSTRUCTIONS EXIST. SENSOR MUST BE INSTALLED IN "CLEAR SPACE" WHERE IT IS EXPOSED TO UNOBSTRUCTED RAINFALL AND IS CLEAR OF IRRIGATION SPRAY.

1. WIRELESS CLIMATE SENSOR TRANSMITTER (EVE/GUTTER MOUNTED)
2. MOUNT SENSOR ON GUTTER/EVE
3. GUTTER/EVE
4. SENSOR RECEIVER
5. CONTROLLER

4 WIRELESS CLIMATE SENSOR
SCALE: NONE



1. STAINLESS STEEL ENCLOSURE TO COMPLETELY ENCLOSE DEVICE
2. SET PAD 1/2" [13MM] ABOVE FINISH GRADE
3. FINISH GRADE
4. 6" [150mm] THICK CONCRETE PAD FOR ENCLOSURE SUPPORT TO EXTEND 6" [150mm] BEYOND ENCLOSURE ON ALL SIDES. CONCRETE TO HAVE MEDIUM BROOM FINISH.
5. MOUNTING BRACKETS (STANDARD WITH ENCLOSURE) TO BE SET INTO CONCRETE PAD. PROVIDE LOCKING TAB TO ACCEPT PADLOCK PER MANUFACTURER'S INSTRUCTION.

2 BACKFLOW ASSEMBLY ENCLOSURE
SCALE: NONE

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
Building Name: ADMINISTRATION
Building No.: 1

IRRIGATION DETAILS

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:
L-2.3

CONSTRUCTION DOCS

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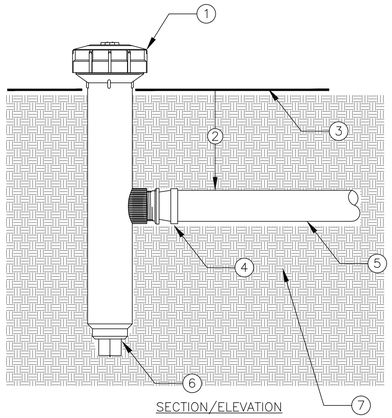
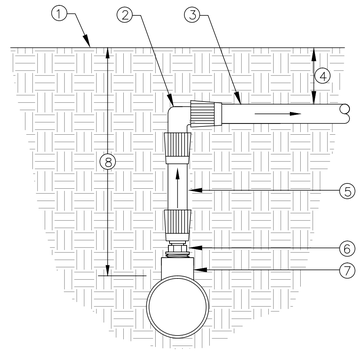


SECTION/ELEVATION

1. TORO 6" POP UP SPRINKLER WITH SIDE INLET (MODEL 570Z-6P-SI-PRX WITH 5' PRECISION NOZZLE (MODEL O-T-5-QP) TURNED COMPLETELY OFF WITH ADJUSTMENT SCREW. SPRINKLER SHALL OPERATE AS THE DRIPLINE INDICATOR. USE A MINIMUM OF ONE PER ZONE AND LOCATED AT END OF ZONE.
2. DEPTH OF DRIPLINE. REFER TO IRRIGATION LEGEND.
3. FINISH GRADE.
4. TORO TRI-LOC X 1/2" MPT ADAPTER (TL-M50)
5. DRIPLINE.
6. KEEP PLUG IN SPRINKLER. ONLY USE SIDE INLET.
7. SOIL BACKFILL.

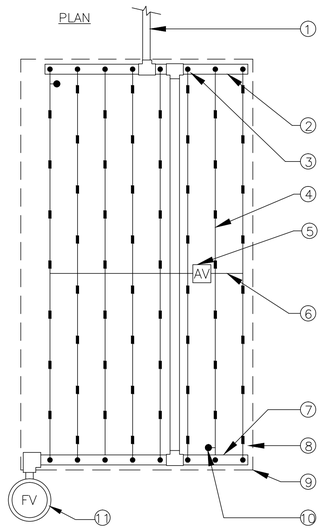
5 DRIPLINE OPERATION INDICATOR
SCALE: NONE



SECTION/ELEVATION
NOT TO SCALE

1. FINISH GRADE
2. TORO TRI-LOC ELBOW (TL-E)
3. DRIPLINE TUBING
4. DEPTH OF TUBING PER IRRIGATION LEGEND.
5. TORO BLUE STRIPE POLY TUBING (EHD1645)
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
8. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND

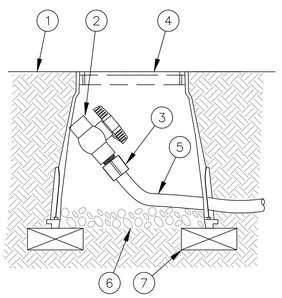
3 DRIPLINE MANIFOLD TO ELBOW CONNECTION
SCALE: NONE



1. PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
2. PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
3. MANIFOLD-TO-ELBOW CONNECTION (TYP).
4. DRIPLINE LATERAL.
5. AIR/VACUUM RELIEF VALVE PLUMBED TO BLANK 5/8" TUBING AT EACH HIGH POINT.
6. AIR/VACUUM RELIEF LATERAL, BLANK 5/8" POLY TUBING CENTERED ON MOUND OR BERM.
7. 1" FLEXIBLE PVC IPS HOSE FLUSH MANIFOLD.
8. PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
9. AREA PERIMETER.
10. DRIP OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONES.
11. AUTOMATIC FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2-4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

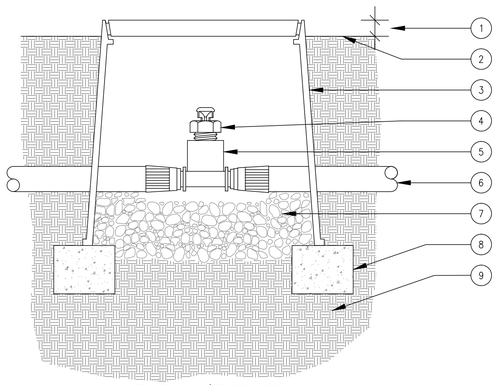
1 TORO DL 2000 END FEED LAYOUT
SCALE: NONE



NOTE:
ALLOW A MINIMUM OF PVC HOSE IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

1. FINISH GRADE
2. 1/2" SCH 40 THREADED BALL VALVE.
3. 1/2" SCH 40 MALE ADAPTER.
4. 6" ROUND PLASTIC VALVE BOX.
5. 1" IPS PVC HOSE FROM EXHAUST HEADER.
6. PEA GRAVEL SUMP (6" DEEP).
7. BRICK (1 OF 2)

6 DRIPLINE-FLUSH POINT
SCALE: NONE

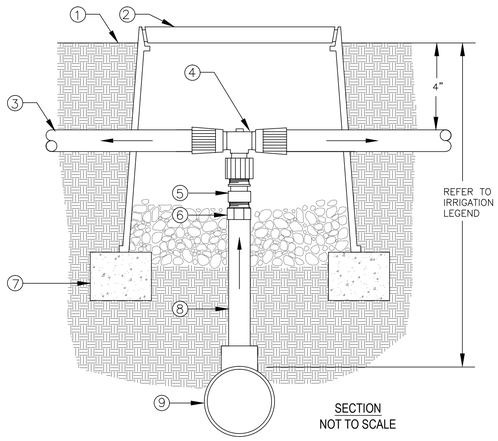


SECTION/ELEVATION

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS.

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. TORO TRI-LOC TEE X 1/2" FPT ADAPTER (TL-T-F50)
6. TORO DL2000 TUBING (RGP-XX-XXX) OR TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AIR-RELIEF LATERAL.
7. PEA GRAVEL (4" DEEP).
8. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
9. NATIVE SOIL PER SPECIFICATIONS.

4 AIR VACUUM RELIEF VALVE IN DRIPLINE
SCALE: NONE



SECTION
NOT TO SCALE

1. FINISH GRADE
2. CARSON 708 OR EQUAL. COLOR: BLACK. USE PURPLE FOR RECYCLED WATER SYSTEMS.
3. DRIPLINE TUBING
4. TORO TRI-LOC TEE X 1/2" FPT ADAPTER
5. TORO 1/2" CHECK VALVE (PCV-500)
6. 1/2" SCH 40 MALE ADAPTER.
7. BRICK (1 OF 2)
8. 1/2" SCH 40 PVC (LENGTH AS REQUIRED)
9. PVC LATERAL LINE SUPPLY. MINIMUM SIZE TO BE 1" UNLESS SIZED DIFFERENTLY ON DRAWINGS. USE SCH 40 PVC 1"x1"x1/2" TEE OR 90° ELBOW.

2 DRIPLINE TO PVC CONNECTION
SCALE: NONE

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
Building Name: ADMINISTRATION
Building No.: 1

IRRIGATION DETAILS

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:
L-2.4

CONSTRUCTION DOCS

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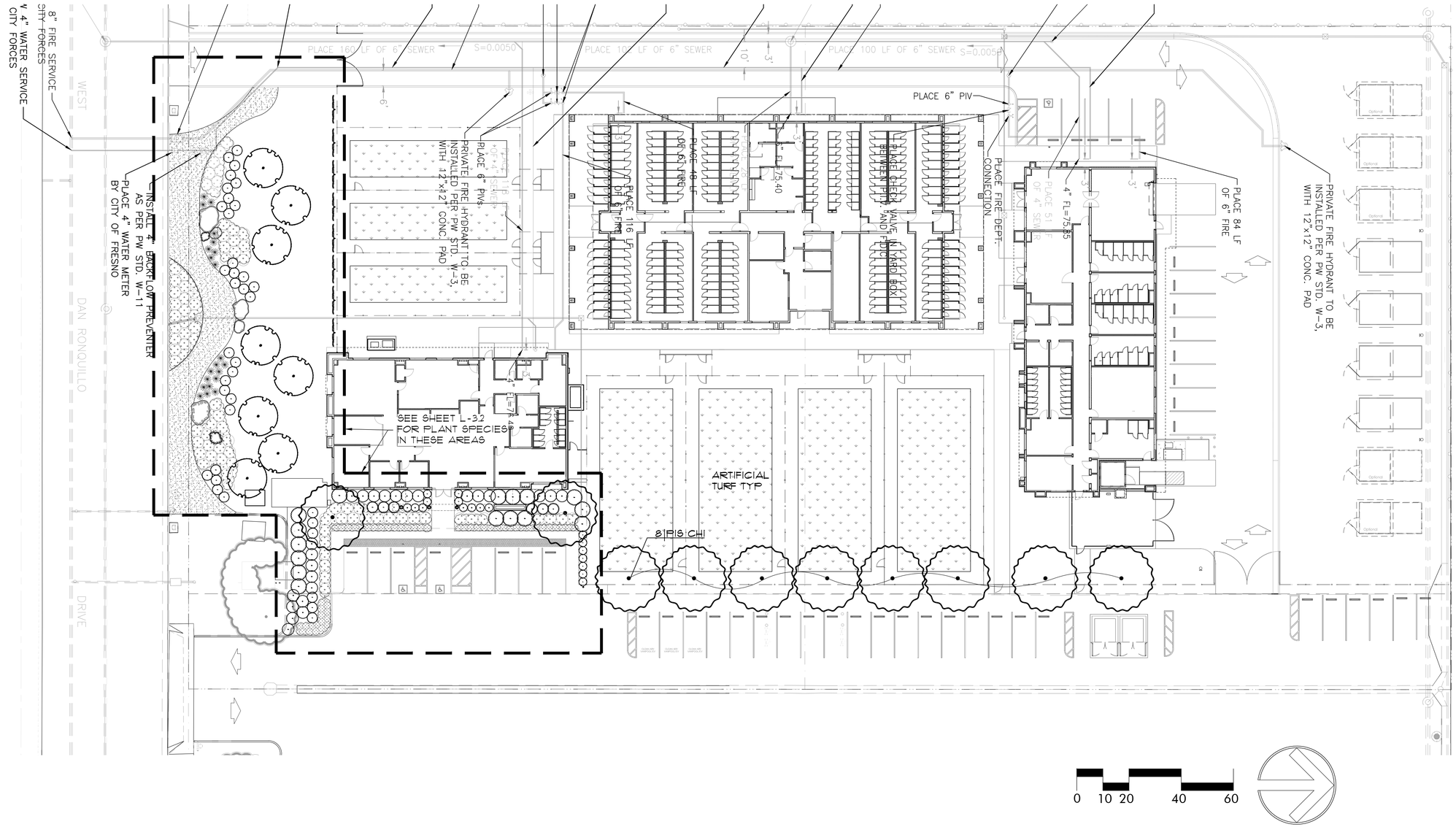

Legend

Keynotes

Key Plan

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STATE OF CALIFORNIA

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

LANDSCAPE PLAN

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-3.1

CONSTRUCTION DOCS

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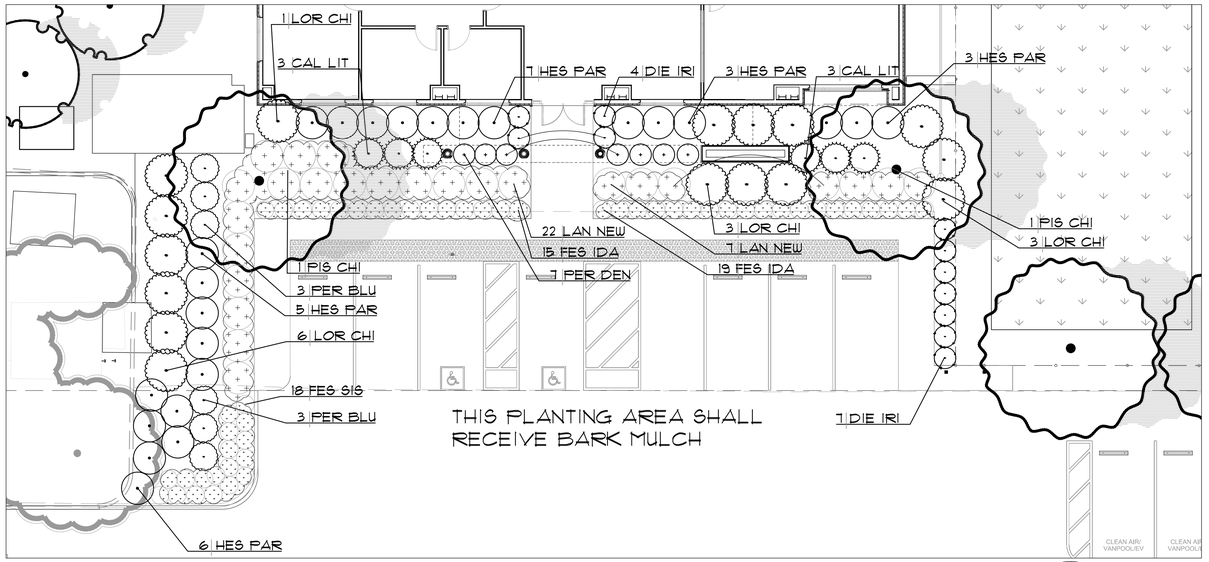


ADMINISTRATION BUILDING PLANTING

SCALE: 1"-10'

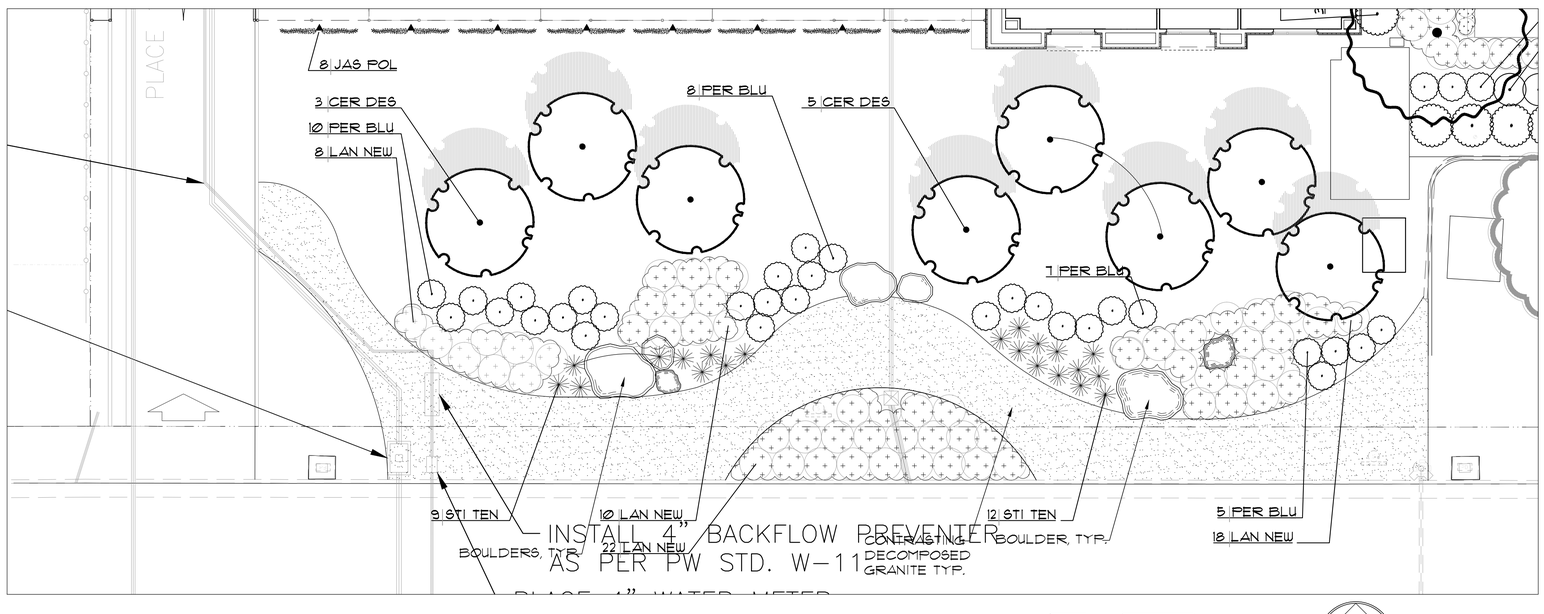
0 5 10 20 30

Plant Palette

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WUCOLS
TREES:				
CER DES	CERCIDEUM 'DESERT MUSEUM'	DESERT MUSEUM PALO VERDE	24" BOX	L
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE- MALE	24" BOX	L
SHRUBS & GRASSES:				
CAL LIT	CALLISTEMON 'LITTLE JOHN'	DWARF CALLISTEMON	5 GAL.	L
DIE IRI	DIETES IRIOIDES 'JOHN'S RUNNER''	JOHN'S RUNNER FORTNIGHT LILY	5 GAL	L
HES PAR	HESPERALOE PARVIFLORA 'BRAKELIGHTS'	BRAKELIGHTS RED YUCCA	5 GAL.	L
LEU SAF	LEUCODENDRON 'SAFARI SUNSHINE'	SARARI SUNSHINE CONEBUSH	5 GAL.	L
LOR CHI	LOROPETALUM CHINENSIS 'BLUSH'	BLUSH FRINGE FLOWER	5 GAL.	L
PER BLU	PEROVSKIA ATRI. 'BLUE SPIRES'	BLUE SPIRES RUSSIAN SAGE	5 GAL.	L
PER DEN	PEROVSKIA ATRI. 'DENIM 'N LACE'	DENIM 'N LACE RUSSIAN SAGE	5 GAL.	L
STI TEN	STIPA TENUISSIMA	MEXICAN FEATHER GRASS	1 GAL	L
VINE:				
JAS POL	JASMINIUM POLYANTHUM	JASMINE	5 GAL.	M
GROUND COVERS:				
FES IDA	FESTUCA IDAHOENSIS 'SISKIYOU BLUE'	SISKIYOU BLUE FESCUE	1 GAL. @ 2.5' O.C.	L
LAN NEW	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	5 GAL @ 4.5' O.C.	L

NOTE:

LANDSCAPING MUST BE IN PLACE BEFORE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. A HOLD ON OCCUPANCY SHALL BE PLACED ON THE PROPOSED DEVELOPMENT UNTIL SUCH TIME THAT LANDSCAPING HAS BEEN APPROVED AND VERIFIED FOR PROPER INSTALLATION BY THE DEVELOPMENT SERVICES DIVISION.



STREETSCAPE PLANTING

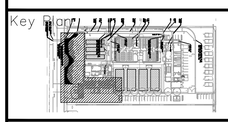
SCALE: 1"-10'

0 5 10 20 30

Legend

Keynotes

Key Plan



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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
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Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

PLANTING PLAN

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-3.2

CONSTRUCTION DOCS

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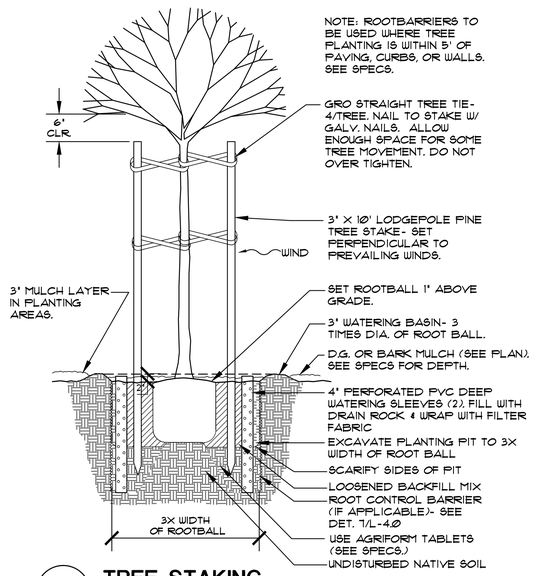
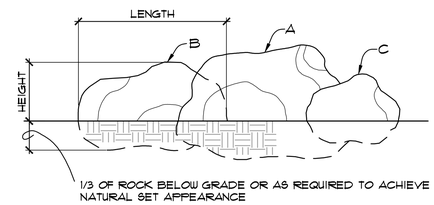


TREE STAKING

NOT TO SCALE

Treeta - 00



APPROXIMATE ROCK SIZES

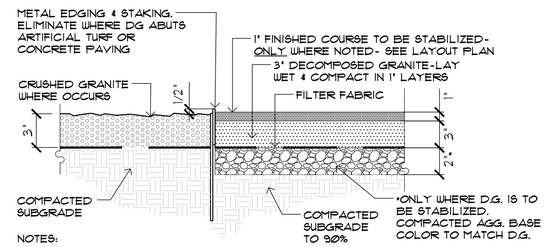
SIZE*	HEIGHT	LENGTH	WIDTH
C	12"	18"	16"
B	16"	24"	18"
A	18"	30"	20"

NOTES:
1. ROCKS LOCATIONS SHOWN ON PLAN ARE DIAGRAMMATIC.
2. CONTRACTOR TO PLACE ROCKS IN APPROXIMATE LOCATION SHOWN FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FINAL BURY.
3. IT IS INTENDED THAT ROCK PLACEMENT BE NATURAL LOOKING AND COMPLIMENT PAVING.
4. ALL ROCK TO BE SONOMA FIELDSTONE.

3 BOULDER INSTALLATION

SCALE 1"=1'-0"

012

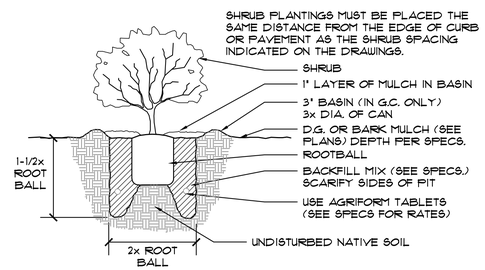


NOTES:

1. METAL EDGING TO BE 3/16"x4" ALUMINUM 'CLEANLINE' W/ BLACK DURAFLEX FINISH AND 12" STL SPIKES W/ WASHERS AS MANUFACTURED BY PERMALOC 800/356.9600
2. STAKES TO BE SPACED 2' ON CENTER MAX.
3. DECOMPOSED GRANITE TO BE INSTALLED IN 1" LIFTS. MATERIAL SHALL BE PATHFINES CALIFORNIA GOLD TAMPED TO 1/4" DEEP BELOW CONC. PAVING WHERE OCCURS.

1 D.G. AND CRUSHED GRANITE PAVING WITH METAL EDGING

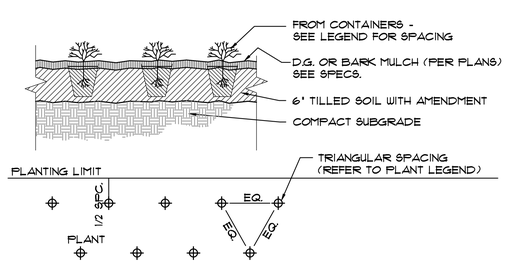
NOT TO SCALE



SHRUB PLANTING

NOT TO SCALE

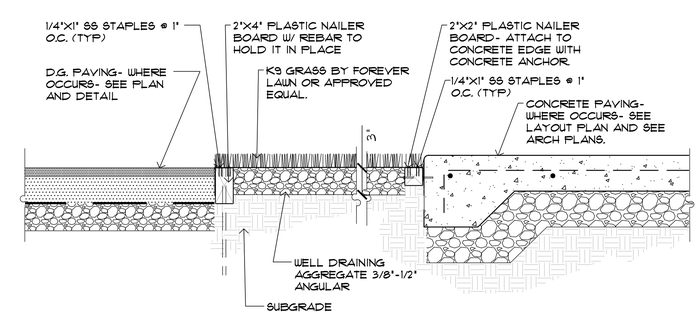
Shrub1



GROUNDCOVER PLANTING

NOT TO SCALE

GC-2



2 ARTIFICAL DOG TURF

NOT TO SCALE

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
planning & landscape architecture
2020 CAMINO DIABLO
WALNUT CREEK, CALIFORNIA 94597
(925) 941-6400 FAX (925) 941-6405
email: tc@campandcamp.com

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

PLANTING DETAILS

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-4.1

CONSTRUCTION DOCS

Drawn by: Plotted on:

IRRIGATION SYSTEM

PART 1 GENERAL

1.01 SUMMARY

A. Section includes providing complete irrigation system, including replacement of unsatisfactory work; clean-up, inspection and acceptance; tests, record drawings and submittals; permits, fees and inspections.

B. Final Acceptance for Work of this section is contingent on completion of planting work as specified.

1.02 SUBMITTALS - Submit 5 copies to Owner's Representative.

A. Submit complete materials list. Include manufacturer, model number and description of all materials and equipment.

B. Shop drawings: Submit for all assemblies not detailed on the Drawings. Include mounting details for rain shutoff.

C. Record drawings: Submit within 10 working days after start of Maintenance Period.

1. Show every change from Contract Drawings and Specifications and exact as-built locations, sizes and kinds of equipment. Dimension concealed equipment, except lateral lines, from 2 permanent points of reference.

2. Delivery of Record Documents shall not relieve Contractor of the responsibility of furnishing required information that may be omitted from Record Documents.

D. Operation and maintenance manuals: Deliver to Owner's Representative at least 10 days before completion of construction, 2 complete sets of the following data. Data shall be on 8 1/2 inch by 11 inch sheets, in 3-ring binder. Include:

1. Index sheet stating Contractor's address and telephone number, list of equipment with name and addresses of local manufacturer's representatives.

2. Catalogue and parts sheets on all material and equipment installed under this Section.

3. Complete operating and maintenance instructions for all equipment.

4. Complete and dated manufacturer's warranties for all equipment.

5. Color coded irrigation plan.

E. Special tools: Two sets of special tools as required to operate, adjust, dismantle or repair equipment. Include tools not normally found in possession of maintenance personnel.

F. Controller charts: Charts shall be 8 1/2" x 11" (laminated) showing areas covered by each controller. Color code area of coverage of each valve and enlarge valve sequence to be readable when drawing is reduced. Reduce approved record drawings and seal between two 20-mil plastic sheets.

1.03 QUALITY ASSURANCE - Comply with requirements of the Uniform Plumbing Code, the National Electric Code, Local City Standards, and local agency standards.

1.04 WARRANTY

A. Provide 1 year guarantee for Work of this Section, on Contractor's letterhead:

1. Warrant that irrigation system has been installed according to Drawings and Specifications, and that system will be free of defects in products and installation for 1 year from Substantial Completion. Manufacturer's warranties shall only supplement special warranty.

2. Agree to repair or replace defective Work, or adjacent work which is damaged by such defects, with the exception of ordinary wear and tear, abuse or neglect. This includes damage to site improvements caused by settlement of improperly compacted trench backfill.

3. Owner reserves the right to make temporary repairs as required.

PART 2 PRODUCTS

2.01 PVC PIPE AND FITTINGS

A. Polyvinyl Chloride (PVC) Pipe: NSF approved, Type 1, Grade 1 PVC compound: ASTM D1784, ASTM D1785 and ASTM D2241. Pacific Western Extruded Plastics Co., Eugene, OR, or accepted equal.

B. Pressure main line pipe: 1120 PVC plastic pipe schedule 40.

Lateral line pipe: 1120, Class 200 PVC

C. Sleeves (sizes to be determined by Contractor):

1. Water lines: 1120, schedule 40 PVC.

2. Electrical lines: Gray, schedule 40 conduit.

D. Fittings:

1. Solvent weld socket fittings: Schedule 40, (for laterals) Type 1, Grade 1, NSF approved, ASTM D2466-90. Schedule 80,

(for Mainline) ASTM D2464. Fittings shall bear manufacturer's name or trademark, material designation, size, applicable IPS schedule and NSF seal of approval. Lasco Products, Brownsville, TN, or accepted equal.

2. Solvent cement and primer for PVC solvent-weld pipe and fittings shall be of type and installation methods recommended by pipe manufacturer. IPS Weld-On Corporation, Gardena,CA, or accepted equal.

3. Risers: Schedule 80 PVC threaded nipples and ells.

2.02 OTHER PIPING MATERIALS

A. Pipe upstream of backflow preventer/master valve: Schedule 40 galvinized steel.

B. Pipe wrapping tape:

1. Metal pipe: 2 inch wide, 20 mils thick, black PVC all weather corrosion-resistance tape with high tack adhesive formulated to resist corrosion. Use same manufacturer's pipe primer to seal pipe and prepare for tape wrapping.

2. PVC pipe: As above, except primer is not required.

C. Pipe joint compound: Non-hardening, non-toxic, designed specifically for use on PVC and metal threaded connections in water carrying pipe. As recommended by pipe manufacturer and accepted by Owner's Representative.

D. Flexible riser/connector: EPDM hose, PVC ends, with stainless steel bands. Flex-Riser, King Brother's Industries, Valencia, CA, or accepted equal.

E. In-line check valve (if required): Sch 40 PVC with stainless steel springs, adjustable from 12 to 32 feet of head. KBI Adjustable Check Valve, King Brothers Industries, or accepted equal.

F. Provide dielectric fittings where dissimilar mutals come into contact.

2.03 VALVES

A. Gate valves: Brass construction, screwed connections, with teflon seats and standard port. Hammond Valve Co., Hammond, IN: Nibco Industries, Elhart, IN: or accepted equal.

B. Brass electric remote control valve:

1. Brass, heavy-city, stainless steel fasteners, nylon-reinforced rubber diaphragm.

2. Normally closed with manual internal bleed: self-flushing stainless steel screen and brass flow control system.

3. Rated to 200 psi.

4. 24 VAC solenoid actuated.

5. Model No. 950-DUS Superior Controls Co., Valencia, CA, or accepted equal.

C. Electric remote control master valve:

1. Cast iron body, brass bonnet self-cleaning, in-line serviceable.

2. Normally closed with manual internal bleed: self flushing stainless steel screen and brass flow control stem.

3. Rated to 200 psi.

4. 24 VAC solenoid actuated.

5. Model No. 2160 Griswold Controls, Irvine, CA, or accepted equal.

D. Quick coupling valves: Bronze construction, 1-inch connection, two-piece body, purple ylyl locking top, single slot and lug.
Size: 1 inch. 1 inch FIPT outlet. Model No. 44NF: Rainbird Inc., Glendora, CA. or accepted equal.

2.04 VALVE BOXES

A. HDPE, green, UV resistant, with stainless steel bolt-down mechanism and heat-branded letters, minimum 2 inch height. Carson Industries Inc., La Verne, CA or accepted equal.

1. Remote control valves and gate valves: 12 x 18 inches, series 1419. Letters: "ICV" and the valve number.

2. Quick coupling valve: Round, 10 inch diameter, series 910. Letters: "QCV" with stainless steel bolts.

2.05 SPRINKLER HEADS

A. Spray sprinkler:

1. Matched precipitation rate, seamless molded plastic, with stainless steel adjustment screw and retraction spring.

2. Pressure activated wiper seal and removable flushing plug.

3. Pop-up height: 6 inches

5. Nozzle: as shown on Drawings. Provide pressure compensating screen where required to reduce radius.

6. 570 Z Series, Toro, Riverside, CA, or accepted equal.

B. Gear driven rotor:

1. Matched precipitation rate, seamless molded plastic, adjustable arc, with stainless steel adjustment screw, locking rubber cover, and heavy duty retraction spring.

2. Pop-up body shall have integral check valve capable of preventing low-head drainage up to 10 feet of head.

3. Pop-up height: 12 inches.

4. Nozzle: 5 interchangeable nozzles as shown on Drawings

5. PGM Series, Hunter Industries, San Marcos, CA, or accepted equal.

C. Gear driven rotor:

1. Matched precipitation rate, seamless molded plastic, adjustable and full circle arcs, with stainless steel adjustment screw, locking rubber cover, and heavy duty retraction spring.

2. Pop-up body shall have integral check valve capable of preventing low head drainage up to 10 feet of head.

3. Pop-up height: 12 inches.

4. Nozzle: 12 interchangeable nozzles, as shown on Drawings.

5. PGH Series, Hunter Industries, San Marcos, CA, or accepted equal.

D. Flood Bubbler: Plastic, 6 inch pop-up height: pressure compensating, 0.25 GPM, Model No. 510 series-GP-FB-25-PC, The Toro Company, Riverside, CA, or accepted equal.

2.06 PRESSURE REGULATOR

A. Pressure regulator: Brass, 500 Series, Wilkins, Paso Robles, CA or accepted equal.

2.07 BACKFLOW PREVENTION DEVICE

A. Reduced pressure type, bronze with stainless steel springs, with 2 ball valves, pressure rated to 175 psi, size as shown on Drawings. Model No. 825Y BV, Febco Industries, Fresno, CA or accepted equal.

B. Enclosure: Galvanized steel mesh, size to accomodate BFP assembly, with hinged cover and padlock hasps. Le Mair Industries: as available from Ewing Irrigation, San Leandro, CA or accepted equal.

C. Paint enclosure with prime coat and 2 coats of acrylic exterior semi-gloss enamel, corrosion resistant. Kelly Moore Paint #33-224 AN/Per B. Cottler. Clean, prime and paint enclosure per manufacturer's specifications.

D. Insulated cover: Vinyl coated polyester fabric, green color, lockable: size to fit BFP assembly. "Weatherguard" blanket: available from Ewing Irrigation or accepted equal.

2.08 CONTROLLER

(9 Stations or greater) - Shall have the following features:

A. Single manufacturer's system, including controller, stainless steel top entry enclosure, junction box and prewired terminal strip. Provide malfunction warning light as accepted. Controller shall be compatible with radio/telephone control system, rain shutoff, moisture and flow sensors. UL listing: pedestal mount. Controller assembly shall have 5 year warranty.

B. Solid state, microprocessor-based: capable of fully-automatic, semi-automatic or manual operation. Review program, field wire fault detection.

C. Programming: 24 stations. 12 Programs: or individual station programming. Station timing: At user's option. Non-volatile memory.

D. Master valve/pump start circuit. 8 starts per program per day.

E. Water budgeting: 0 - 999 percent. Standby watering schedule.

F. Model No. SA-618-24-03-PH: RainMaster Evolution series controller assembly, as shown on Drawings, or accepted equal: available from ETS, Pacheco, CA (925) 609-2180.

G. Telephone connection equipment:

1. Schedule 80 conduit, nylon pull rope, conductor cable and connection to telephone company's equipment and operating prior to acceptance.

2. Equipment related to telephone connection shall be approved by the telephone company.

(8 Stations or less) - Shall have the following features:

A. Solid state, microprocessor-based, capable of fully automatic, semi-automatic or manual operation.

B. Programing: 8 station, 4 programs. Station timing: 1 minute to 24 hours in 1 minute increments. Non-volatile memory.

C. Master valve/pump start circuit and valve test function.

D. Water budgeting: 1 - 255 percent.

E. 3 starts per program day.

F. Standby watering schedule.

G. Model No. CA-62-08: Irritrol MC + series controller assembly, as shown on Drawings, or accepted equal: available from ETS, Pacheco, CA (925) 609-2180.

2.09 FLOW SENSOR

A. Schedule 80 PVC with removable, non-magnetic sensing mechanism. Rated to 100 psi at 140 degrees F.Sensing mechanism: Electronic detector, glass reinforced polyphenylene sulfide housing with glass reinforced nylon impeller, UHMWPE bearing, tungsten carbide shaft, and EPDM O-rings.

B. Model No. EVFM P200 with EV-CAB-5EN cable, Rainmaster: or accepted equal. Available from ETS, Pacheco, CA.

2.10 CONTROL WIRE

A. Soft-annealed, uncoated copper, single conductor, with PVC insulating jacket, UL approved for direct burial, size and color as follows:

1. Common ground: White, size #12 AWG-UF.

2. Common wire: Color other than white, size #14-1 AWG-UF.

B. Provide separate common ground for each controller

C. Connections: Gel-sealed waterproof connector kit, UL listed for direct burial splices, with spring connector, vinyl insulator and moisture proof snap top packet. DBY/DBR connector sealing packs, 3M Company, Austin, TX, or accepted equal.

2.11 RAIN SENSOR

A. Shall have stainless steel sensing probes and automatic return to normal watering cycle. Click stop settings shall measure rainfall in quantities of 1/8 to 1 inch and shut off watering cycle during rain. Set device to shut off system when rainfall reaches 1/2 inch.

B. Shall be solid state: UL listed. Provide mounting hardware and wiring to suit Project conditions.

C. Rain Check: Rainbird, Inc. or accepted equal.

2.12 SPECIAL TOOLS - Furnish the following tools: 2 sets of special tools and valve keys required for operating, removing, disassembling and adjusting each type of valve supplied on the Project. Include tools not normally found in possession of maintenance personnel. 2 quick coupler keys and matching hose swivels. Rain Master remote control model RTC/RADD with 32 TC connecting harness (transmitter and receiver).

2.13 TRENCH BACKFILL: Trench backfill in planting areas shall meet requirements of Planting Specifications. Trench backfill under paving shall meet requirements of local City Standards.

2.14 OTHER MATERIALS

A. Concrete: Local City Standards.

B. Drain rock: 3/4 inch washed river rock.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Notify Owner's Representative in advance of the following observation meetings, as indicated:

1. Field layout: 3 days.

2. Pressure supply line installation and testing: 48 hours.

3. Controller installation: 48 hours.

4. Coverage test: 48 hours.

5. Maintenance period observations: 7 days.

6. Final observation: 7 days.

3.02 COORDINATION

A. Inspect, become familiar with, and protect existing site utilities and Project utilities.

B. Coordinate placement of items to be imbedded into concrete work or installed under paving.

C. Design pressure is shown on Drawings. Verify static pressure at P.O.C. before starting construction and notify Owner's Representative if it varies more than 10 psi in either direction.

D. Irrigation demand is shown on Drawings. Verify at P.O.C. before starting construction.

3.03 LAYOUT

A. Before installation, stake layout of pressure supply lines and valves for review. Adjust as directed.

B. Drawings are diagrammatic. Provide necessary fittings and offsets to adapt to existing conditions and prevent conflicts with other work and existing improvements.

C. Line clearance: Irrigation system lines: 6 inches, Irrigation lines and other utilities: 12 inches, lines crossing at angles between 45 and 90 degrees: 2 inch vertical clearance.

D. No line shall be parallel to and directly over another irrigation or utility line.

3.04 TRENCHING AND BACKFILLING

A. Dig trenches straight and support pipe continuously on bottom of trench. Keep trenches 18 inches away from paving. Lay pipe to even grade. Minimum cover over all lines shall be as follows:

1. Pressure mainlines: 24 inches

2. Lateral lines: 18 inches

3. Control wires: 18 inches

B. Backfilling:

1. Backfill with specified material after testing pipe. Backfill shall be compacted to a density equal to adjacent soil, or as specified.

2. Correct subsequent settlement of trenches, and correct any damage caused by settlement.

C. Sleeves and conduit:

1. Provide sleeves and conduit of sufficient size and quantity to accommodate all pipe and wiring.

2. Install minimum 7 inches below bottom of pavement base, and at least as deep as required depth of pipe. Install sleeves level and in straight line.

3. Sleeves and caps shall be schedule 40 PVC unless otherwise shown, minimum twice the irrigation line diameter, and extend minimum 12 inches beyond edge of pavement. In-line fittings are not permitted in sleeves less than 20 feet long. Cap ends of sleeves hand tight until pipe is installed.

4. Backfill with clean sand on all sides of sleeves, and compact by tamping. Backfill and test as specified in Local City Standards.

5. Mark locations of sleeve ends with 2x4 stake extending 6 inches above finish grade for future location during construction. Label stake clearly with letter "I". Remove stake when assembly is completed.

3.05 BACKFLOW PREVENTION DEVICE

A. Connect to water supply line in approximate location shown on Drawings. Final location will be accepted by Owner's Representative.

B. Installation shall comply with applicable codes. Arrange and pay for tests and certificates required by governing agencies.

3.06 PIPE

A. General:

1. Pipe under existing paving shall be installed by jacking or boring.

2. Do not use pipe joint compound on sprinkler bases or remote control valves.

3. Cap open pipe ends as pipe line is assembled to keep out soil or debris. Remove caps only when necessary to continue assembly.

4. Sleeve pipe under paving. Where pipes or control wires pass through sleeves, provide removable non-decaying plug at ends of sleeves to keep soil out.

5. Pipe wrapping: Wrap galvanized pipe and fittings in contact with soil and to 3 inches above soil line. Overlap tape 1/2 its width.

6. Provide check valve where required to prevent erosion from low head drainage.

B. Solvent-weld PVC:

1. Plastic pipe shall be installed to accommodate expansion and contraction as recommended by manufacturer.

2. Install PVC pipe in trench with manufacturer's markings facing up.

3. Follow pipe and cement manufacturer's instructions.

C. Threaded joints:

1. Field threading of plastic pipe or fittings is not permitted. Use factory-made threads only.

2. Use factory-made metal nipples wherever possible. Field cut threads in metal pipe may be used only where approved by Owner's Representative. Cut threads accurately on axis with sharp dies.

3. Apply pipe joint compound to male threads and first three female threads.

4. On metal to metal joints, no more than 3 full threads shall show when joint is complete.

5. When assembling threaded plastic fittings, tighten joint no further than 1 full turn beyond hand tight. Use strap type friction wrench only: do not use metal-jawed wrench.

3.07 VALVES

A. General:

1. After pipe and risers are in place and connected and before installation of valves, flush out system with a full head of water. Lines shall be free of soil or debris.

2. Locate and install as shown. Location of valves and alignment of boxes shall be approved by Owner's Representative.

B. Valve box installation, general:

1. Install boxes 18 inches from walk or header and 12 inches apart. Short side of rectangular boxes shall be parallel to walk or header. Install boxes 2 inches above finish grade in groundcover areas: flush in lawn areas.

2. Install common bricks as shown and as required to keep box stable. Place drain rock inside box for drainage as shown.

3. No soil or accumulated water is permitted in valve boxes. Install PVC tape over box side cutouts.

4. Show locations of boxes on record drawings.

C. Remote control valve:

1. Install where shown on drawings: group boxes together and install in ground cover areas wherever possible.

2. Install a separate box for each valve and union.

3. Each remote control valve shall have a separate riser and connection to main line. Do not manifold valves to a single main line unless shown on Drawings.

4. Label each valve with controller and station number on 2 1/4 inch x 2 3/4 inch polyurethane tag attached to control wire.

D. Quick Coupling valve:

1. Set valve perpendicular to finish grade unless otherwise shown.

3.08 SPRINKLERS

A. Thoroughly flush lines before installing sprinkler heads.

B. Locate and install heads, risers and fittings as shown. Notify Owner's Representative where field conditions or obstructions prevent adequate coverage.

C. Set heads perpendicular to finish grade unless otherwise shown.

D. Install tree bubbler in perforated polystyrene drain pipe filled with drain rock, flush with grade, as shown on Drawings.

E. Adjust sprinkler heads for proper distribution and trim, providing complete coverage with minimal overspray.

3.09 CONTROLLER

A. Install in approximate location shown on Drawings. Exact location will be accepted by Owner's Representative. Connect to disconnect switch.

B. Controllers shall be factory mounted in manufacturer's enclosure unless otherwise shown. Mount enclosure as directed by local City Standard Details.

C. Connect control wires to controller in sequential arrangement according to valve numbers shown. Label each control wire with permanent label showing station number of valve controlled.

D. Rain sensor: Mount in location accepted by Owner's Representative and record location on record drawings. Connect according to manufacturer's instructions and wiring diagrams.

E. Control wire:

1. Run lines along mains wherever possible. Tie wires in bundles with 1 inch wide electrical tape at 10 foot intervals and allow slack for contraction between strapping. Tape is not required in sleeves.

2. Loop 3 feet of extra control and ground wires in 1 inch diameter coil, at each valve, at 100 foot intervals along wire runs and at changes of direction.

3. Splicing is not permitted other than in valve boxes.

4. Install spare control wire of different color, one wire per every six stations of controller, along entire main line for each controller.

F. Programming: Programming is the responsibility of Contractor throughout construction and maintenance period. Provide optimum amounts of water for each plant type to maintain plants in vigorous, healthy condition. Reprogram as required at end of maintenance period.

3.10 TESTING PIPE

A. Pipe shall be center-loaded with approved backfill to anchor pipe before testing. Do not cover fittings. Do not cover or enclose work until tests are approved by Owner's Representative.

B. Before testing, bleed air out of lines at line pressure. Provide vertical pipe at high points during installation.

C. Solvent weld pipe: Test hydrostatically after joints have cured at least 24 hours. Provide caps, pumps,pressure guages and other equipment required to perform test.

1. Test pressure main line at 150 psi for 4 hours and prove watertight.

2. Cap sprinkler risers and test lateral lines at line pressure. Review system for leaks.

D. Repair leaks and repeat tests until system is proven watertight.

E. Remake faulty joints with new materials. Do not use cement or caulking to seal leaks. Repairs shall conform to specifications.

3.11 SYSTEM ADJUSTMENT

A. Flush and adjust sprinkler heads for optimum performance. Prevent overspray onto walks, roadways, paving and buildings. Adjust nozzle sizes and degrees of arc, and install pressure compensating screens, as required to cover planting areas without overspray. Adjust valve flow controls.

B. Test and adjust entire system at completion of each phase or section of work.

C. Perform coverage test in the presence of Owner's Representative to establish that coverage of all planting areas is complete and adequate. Correct deficiencies and repeat test until approved.

3.12 OPERATION INSTRUCTION

A. Provide 6 hours instruction in operation and maintenance of system to Owner's maintenance personnel, at time accepted by Owner. Provide instruction by manufacturer's representative when contractor is not expert in operation of equipment.

3.13 MAINTENANCE

A. Maintain irrigation system in working order from beginning of work until Final Acceptance. Maintenance of system includes, but is not limited to: Flushing system and adjusting heads: providing optimum amounts of water to plants: replacing lost, stolen or damaged equipment, reprogramming the controller.

1. Handwater as required for plant establishment.

B. Request observation for commencement of maintenance period after irrigation and planting work is complete. Maintenance period shall begin upon written notice of acceptance by Owner's Representative and continue for minimum 90 days or until Final Acceptance.

C. Operate system during observation as directed by Owner's Representative.

3.14 FINAL ACCEPTANCE

A. Final acceptance of irrigation system will be made after all work is complete and upon acceptance of planting work.

END OF SECTION

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
planning & landscape architecture
2520 CAMINO DIABLO
WALNUT CREEK, CALIFORNIA 94597
(925) 941-6458 FAX (925) 941-6459
email: tc@campandcamp.com

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

IRRIGATION SPECIFICATIONS

Project No: T80310 Date: 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-5.1

CONSTRUCTION DOCS

Drawn by: Plotted on:

PLANTING

PART 1 GENERAL

1.01 SUMMARY: Section includes providing planting complete, including maintenance through Final Acceptance and warranty replacement.

1.02 DEFINITIONS: Finish Grade is top of soil surface after settling.

1.03 SUBMITTALS - Submit 5 copies to Owner's Representative.

A. Product data: Submit complete materials list of items to be provided under this Section, including source, size and quantity. Include manufacturer's literature.

B. Samples: 1/2 cubic foot of wood bark mulch.

C. Test reports: Submit results of the following tests. Test reports shall be test number specified, as provided by soil and plant Laboratory, or accepted equal.
1. Existing site soil: Provide Test 425 for agricultural suitability, fertility, particle size analysis; including recommendations for soil amendment and backfilling, and Fertilization during Maintenance Period. Number of samples to be as recommended by testing laboratory, minimum 4 samples.
2. Import soil: Submit test reports of representative sample prior to delivery and for every 100 yards delivered to the site. Test 425, for agricultural suitability, fertility, particle size analysis; including recommendations for soil amendments and fertilization during Maintenance Period.
3. All other fertilizers and amendments: For standard products, submit manufacturer's analysis. For all other products, submit analysis by testing laboratory.
4. Submit test results for site soil , import soil and organic amendment together, as a package.

D. Herbicides: Submit Manufacturer's analysis. Schedule for application of herbicides shall be accepted by Owner's Representative.

E. Record Drawings: Prepare record plans indicating plant type, quantity, size and location. Submit to Owner's Representative within 10 working days of start of Maintenance Period.

1.04 QUALITY ASSURANCE

A. Testing laboratory: Recognized laboratory for soil and plant disease analysis for ornamental horticulture, approved by Owner's Representative. Acceptable laboratory: Soil and Plant Laboratory, Santa Clara, CA (408) 727-0330
B. Reference Standards: Comply with applicable provisions of the following:
1. Nomenclature: 'Western Garden Book', 1988 edition or later; Sunset Publishing Co., Menlo Park, CA.
2. Plant material standards: 'American Standard for Nursery Stock', 1990 edition; American Association of Nurserymen.
3. Staking and guying procedures: 'Staking Landscape Trees', University of California Extension, Publication #2516.
4. Pruning procedures: 'Tree Pruning Guidelines', 1995 edition; International Society of Arboriculture, Savoy, IL.
5. California Department of Transportation (Cal Trans), Standard Specifications, 1992 Edition, Where referenced therein.

1.05 DELIVERY, STORAGE AND HANDLING

A. Fertilizers, amendments and other materials: Store protected from damage. Protect site surfaces.

B. Plants: Maintain plant material in healthy growing condition at all times. Protect plants from sun and drying winds. Plants that cannot be planted immediately upon delivery shall be kept in the shade, watered and protected. Owner's Representative reserves the right to reject plants which decline in quality after delivery to site.

1.06 WARRANTY

A. Provide 18 month guarantee for planting work, on Contractor's letterhead:
1. Plant material: Warrant that all plant material under this contract will be vigorous, healthy, free from dead or dying branches and branch tips, bearing foliage of normal density and color, and will otherwise comply with these Specifications for a period of 18 months from date of Substantial Completion.
2. Replacements: Without cost to Owner, in a timely manner and as directed by the Owner's Representative, will replace all plants not meeting the requirements above during and at the end of the Warranty Period. Replace plants which are identified, within 3 years, as not being true to name as specified, with the specified plant. Replacements shall closely match adjacent specimens of the same species in size at the time of replacement, and shall comply with all requirements of this specification.

PART 2 PRODUCTS

2.01 PLANTS

A. General: Plants shall be nursery grown in accordance with good horticultural practices under climatic conditions similar to those of project for at least one year unless otherwise accepted by Owner's Representative. Do not prune plants before delivery.

B. Plants shall be compact and symmetrical, sound, healthy and vigorous, well branched and densely foliated when in leaf, free of disease, insect pests, eggs or larvae, and free from physical damage or adverse conditions that would prevent thriving growth. Plants shall be labeled at the supplying nursery with genus, species and variety.

C. Rootball:
1. Do not supply bare root ball or burlap stock unless accepted by Owner's Representative.
2. Sizes: As shown on Drawings.
3. Root systems shall be healthy and free from twisting or girdling.
4. Containers: All plant material shall have been grown in the containers in which delivered for at least six months, but not over two years.

2.02 SOIL

A. General: Soil in all planting areas shall be free of rocks over one inch in diameter, sub-soil, refuse, plants or roots, clods, weed, viable weed seeds, sticks, solvents, petroleum products, concrete,base rock or other harmful substances.

B. Imported topsoil: Form 430-C as determined by Testing Laboratory.
1. Physical properties: USDA sandy loam.

Particle Size Range	Percent
Coarse sand .5-2.0mm	0-15%
Silt plus clay	25-50%
Silt 0.002-0.05mm	10-30%
Clay 0-0.002mm	10-25%
Gravel 2-13mm	0-15%
Rock 1/2-41 inch	0-10% by volume
Organic matter	0-15%

2. Chemistry:

Salinity: less than 3.0 mmhos
Sodium absorption: less than 6.0
Boron: Less than 10 ppm
pH of saturated paste: 5.5 - 7.5

3. Qualitative lime level shall be low in opinion of Testing Laboratory.
4. Fertility characteristics shall be modified by the incorporation of conventional fertilizers to provide fertility levels to sustain normal growth.

2.03 SOIL AMENDMENTS

A. Wood residual soil amendment: Nitrogen and iron stabilized redwood, fir or cedar sawdust, 0 x 1/4 inch, Form 404-A-SC.
1. Particle Size (Dry Weight Basis):

Sieve Size	Percent Passing
9.51 mm (3/8 inch)	100
6.35 mm (1/4 inch)	95-100
4.76 mm (No.4)	80-100
2.38 mm (No.8,8 mesh)	50-80
1.00 mm (No.18)	20-70
500 micron (No.35, 32 mesh)	0-30

2. Nitrogen: Minimum 0.4% nitrogen based on dry weight.
3. Salinity: Maximum saturation extract conductivity 4.0 millimhos per cm at 25 degrees centigrade.
4. Iron: Minimum 0.08% dilute acid soluble Fe based on dry weight
5. Organic matter: 220 pounds per cubic yard.

2.04 FERTILIZER

A. Fertilizer tablets: 10 gram tablets in the nutrient formulation 12-10-5 plus 1 percent sulfonated monodimethyl napthalene as wildlife repellant; Gro-Power 12-10-5 ADS Tablets, Gro-Power, Inc., Chino, CA, or accepted equal.

B. Commercial Grade Fertilizer:
1. Complete fertilizer: Homogenous pellet, containig major nutrients specified plus iron, sulfur and zinc. Best's Fertilizer,
J. R. Simplot Co., Latrop CA or accepted equal.
2. Wildlife repellant fertilizer: Homogenous granule in the nutrient formulation 14-14-14 plus iron, sulfur and zinc; plus 1 percent sulfonated monodimethyl napthalene as wildlife repellant. Gro-Power ADS Granular, Gro-power Inc., Chino, CA or accepted equal.

C. Potassium sulfate: 0-0-52; manufactured for horticultural use.

D. Iron sulfate: Ferric sulfate, containing minimum 20% iron expressed as elemental.Caution: Iron sulfate will stain concrete, granite, stucco and tile surfaces. Avoid contact between site surfaces and soil surfaces and soil containing iron sulfate. After iron sulfate application, broom or air blow surfaces free of material before any water application, including impending rains.

E. Soil sulfur: manufactured for horticultural use.

F. Agricultural gypsum: manufactured for horticultural use.

2.05 OTHER MATERIALS

A. General: All materials supplied shall be free of harmful substances.

B. Wood bark mulch: Fir, cedar or redwood bark. 'Walk-on' bark mulch 1"-3" American Soil Products, San Rafael, CA, or accepted equal. 'Gorrilla hair' mulch is not acceptable.

C. Staking materials:
1. Wooden stakes: Lodge pole pine, 10-foot length at 3-inch diameter and treated with wood preservative to heartwood; green color; as available from C and E Lumber Co., Pomona, CA; California Cascade, San Jose, CA; or accepted equal.
2. Ties: Black rubber 'Gro-Strait', Gro-Strait, Walnut Creek,CA; or equal. Provide ties without wires. Length of tie as required to adequately support tree while secured directly to stakes with 1 1/2" roofing nails.

D. Water: Potable.

E. Herbicide: California State licensed Pest Control Operator shall identify weeds and propose product, method and rate of application for review and approval by owner. Provide manufacturer's literature.

F. Anti-dessicant: Furnish evidence that material can be used safely on plant materials specified.

G. Tree Root Barriers: Polypropylene, 0.08 inch minimum thickness, ribbed interlocking panels. 24 inch Universal Barriers (UB24-2) as manufactured by Deep Root Corporation, Westminster, CA or accepted equal.

PART 3

3.01 FIELD QUALITY CONTROL

A. Progress observations: In addition to installation observations specified below, periodic progress observations may be made by the Owner's Representative.

B. Installation Observations: Request at least 3 days in advance:
1. Observation of plant material upon delivery to site.

C. Maintenance Observations: For the purpose of establishing the start of Maintenance period and observing completion of Work of this section through Final Acceptance. Request at least 7 days in advance:
1. Observation for Maintenance commencement.
2. Observation for Final Acceptance.

3.02 ORDERING, REVIEW AND ACCEPTANCE OF PLANT MATERIAL

A. Ordering: 90 days before the start of planting work, submit written certification to Owner's Representative of the quantity, species, and source of plant material ordered. Owner's Representative reserves the right to review plant material before shipment.

B. Owner's Representative will review plant material at project site upon delivery. Arrange material so that canopies or branch tips are not touching. Do not install material which has not been reviewed and accepted by the Owner's Representative.

C. Arrange and pay for permits and inspections required for delivery of plant material.

3.03 SITE PREPARATION

A. Herbicides (if accepted):
1. Apply site preparation herbicide in accordance with manufacturer's instructions to all areas with weed cover, both subsoil and import soil.
2. After 10 days, mow weeds and remove clippings from site.

B. Review planting areas for presence of rock, chemicals or other harmful substances. Obtain Owner's Representative's instructions before proceeding with work.

C. Owner's Representative may require removal of site soil and replacement with import topsoil if site soil is not acceptable for use.

D. Thoroughly scarify all planting areas by cross-ripping or other approved means to a depth of 8 inches. Do not scarify within drip line of existing trees.

3.04 IMPORT TOPSOIL

A. Provide import topsoil where shown, where site topsoil is not accepted for use, or where additional soil is required to achieve finish grades shown.
B. After scarification of subsoil, place 3 inch layer of approved import soil and thoroughly rototill into the top 3 inches of subsoil.
C. Place remaining soil to depth required, in maximum 8 inch lifts.
D. Thoroughly settle each lift of soil by watering, rolling or other means as determined by Contractor.

3.05 SOIL AMENDMENTS

A. Rototill planting areas to 6 inch depth before spreading amendments. Loosen soil and incorporate amendments by hand within dripline of existing trees.

B. Spread evenly and thoroughly rototill to 6 inch depth the following amendments per 1,000 square feet:

6 cubic yards	Wood residual soil amendment as specified.
25 pounds	6-20-20 commercial fertilizer
5 pounds	Potassium sulfate
10 pounds	Soil sulfur

C. A bulletin may be issued upon receipt of test results if change in amendment program is recommended by testing laboratory.

3.06 FINISH GRADING

A. Provide positive surface drainage of all planted areas. Notify Owner's Representative of obstructions, discrepancies or other conditions which prevent positive surface drainage before preceding with work.

B. After amendment and settlement of soil, grade planting areas to required finish grades. Surfaces shall be smooth and free of depressions or abrupt transitions. Owner's Representative reserves the right to make minor adjustments in finish grades as work progresses.

C. Finish grades after settling shall be 1-1/2" below adjacent walls and walks, unless otherwise shown. Owner's Representative will review finish grades before planting begins.

3.07 HANDLING OF PLANTS

A. General: Prevent damage to plant material. Lift and handle plants only from bottom of rootball.

B. Access: Inspect project site and become familiar with the accessing requirements and restrictions. At time of submitting bid, provide written notice of any conditions which would prevent installation of the specified plant material.

3.08 LAYOUT

A. General: Owner's Representative will review, for conformance to design intent, locations of all plants in field prior to planting. Notify Owner's Representative and schedule layout review sufficiently in advance of planting to allow for review and adjustment without disrupting construction schedule. Owner's Representative reserves the right to make minor adjustments in the layout of all plant materials adjust irrigation as necessary.

B. Trees: Stake layout of trees in field before installing irrigation. Adjust as directed by Owner's Representative.

3.09 EXCAVATION OF PLANT PITS

A. Excavate plant pits to three times rootball width for trees and 2 times rootball width for shrubs. Scarify sides and bottom of pit to eliminate glazed surfaces.

B. Obstructions: If rocks, underground construction work, tree roots or other unknown obstructions are encountered in the excavation of plant holes, alternate locations may be selected by the Owner's Representative. Report all such conditions in writing to the Owner's Representative. Where locations cannot be changed, submit a written proposal and cost estimate for removing obstructions to a depth of not less than 6 inches below the required hole depth. Obtain Owner's Representative's instructions prior to proceeding with the work affected.

3.10 DETRIMENTAL SOILS AND DRAINAGE

A. Prior to planting, test drain all planting areas as follows:
1. Plants pits: Fill with 12 inches of water. Water shall drain completely in 48 hours.
2. Plant beds: Irrigate until soil is saturated. Saturated condition shall not remain after 24 hours.

B. Failure of drainage test: Report in writing to Owner's Representative all areas not passing these tests, and all soil conditions that Contractor considers detrimental to growth of plant material. State condition, and proposal and cost estimate for correcting the condition. Obtain Owner's Representative's instructions prior to proceeding with work affected. Repeat drainage testing and correction of conditions until tests are passed. Failure to perform drainage tests, or to notify Owner's Representative in writing of conditions specified above, renders Contractor responsible for all plant failure that occurs as a result of inadequate drainage or detrimental soil conditions, as determined by Owner's Representative.

3.11 PLANTING

A. General: Do not plant material that has not been reviewed by Owner's Representative upon delivery to the project site, or that has been rejected for any reason. Do not plant under unfavorable weather conditions.

B. Rootballs: Do not install plants with damaged rootballs.
Shrubs and groundcovers: If rootbound, score with sharp knife, making 4 cuts, and gently spread lower 1/3 of rootball.
Trees: If rootbound, gently roughen sides of rootball to a depth of 1 to 2 inches to loosen and spread encircling roots. Cut roots which are too stiff to untangle.

C. Backfilling: (per cubic yard)
1. In top 12 inches of plant pits, use backfill mix as follows, thoroughly blended.

1/3 cubic yard	nitrogen and iron fortified organic amendment
2/3 cubic yard	native soil
8 pounds	14-14-14 wildlife repellant granular fertilizer
11/2 pounds	iron sulfate
1/2 pound	potassium sulfate (0-0-52)

a. Below 12 inch depth, omit organic soil amendment.
2. Owner's Representative may require substitution of import topsoil for site soil where site topsoil is not accepted for use, and changes in backfill mix as recommended by Testing Agency.

D. Fertilizer Tablets: Place wildlife repellant fertilizer tablets evenly distributed in plant pit when backfilled 2/3, according to the following schedule:

1 gallon	(2) 10 gram tablet
5 gallon	(6) 10 gram tablet
15 gallon	(10) 10 gram tablet
24" Box	(14) 10 gram tablet
36" Box	(20) 10 gram tablet

E. Settlement: Reset plants which shift or settle before end of maintenance period. Crowns of trees shall be at the following minimum 2" above the surrounding finish grade at end of maintenance period:

F. Mulch all planting areas with 3 inch deep layer of wood bark mulch except for areas shown to have decomposed granite (D.G.) mulch. Do not pile mulch or D.G. around crown of plants.

G. Form a watering basin for each plant. Thoroughly water all plants immediately after planting, eliminating air pockets.
Prevent erosion.

H. Root barriers: Install as shown and as recommended by manufacturer on all trees within 6 feet of paving, curb, or wall, and continuous at perimeter of street tree wells.

3.12 STAKING

A. General: Stake trees immediately after planting. Make modifications to staking procedures as required to accommodate field conditions, at no additional cost to Owner.

B. Staking: Stake trees with two stakes as shown in detail. Fasten with rubber ties secured directly to the stakes with 1 1/2" roofing nails. Do not use wire to secure ties to stakes. Allow 1 to 3 inches sway in trunk or branches. Do not pull tight.

3.13 PRUNING

A. Prune only as directed, according to reference standards.

B. Prune trees which overhang paving to maintain minimum clearance of 80 inches between lower branches and pedestrian traffic way.

3.14 GROUNDCOVER PLANTING

A. Place and amend soil and do all work to provide finish grades as shown. Provide pre-emergent weed control per manufacturer's recommendations. Install 2" layer wood bark mulch.

B. Plant groundcover plants through wood bark mulch at the specified triangular spacing.

3.17 MAINTENANCE

A. General: Maintain all plants and planting areas from time of delivery, through installation and Maintenance period, until Final Acceptance.

B. Schedule: Submit proposed maintenance work to Owner's Representative in writing for review at least 30 days prior to commencement of maintenance work. Maintenance work shall be done at times accepted by the Owner.

C. Maintenance Procedures:
1. General: Maintenance of new planting includes, but is not limited to: Watering, cultivating, fertilizing, weeding, mowing, mulching, re-staking, resetting plants to proper grades or upright positions; restoring watering basins, removal of dead flowers and broken twigs; pest, disease and weed control; erosion control; restoring finish grades and accepted and tested imported topsoil; taking precautions as necessary to prevent sunscald damage. Remove nursery tags and repair mulch 10 days before Final Observation.
2. Protection: Protect planting areas and plants against damage until Final Acceptance. Maintenance also includes temporary fences, barriers and signs as required for protection. Treat or replace damaged plants as directed by Owner's Representative at no additional cost to Owner.
3. Fertilization: Apply potassium sulfate and 16-6-8 fertilizer at the rate of 6 pounds each per 1000 square feet, 30 days after installation, and one (min.) application at end of maintenance period.
4. Weed control:
a. Keep site free of weeds during maintenance period.
b. Identify weeds and apply accepted control methods.
c. Herbicides, if used, shall be applied by licensed Pest Control Operator according to manufacturer's recommendations.

D. Observation of maintenance period commencement: Request after irrigation and Planting is substantially complete. Maintenance Period shall begin upon written notice of acceptance by Owner's Representative and after Final Inspection on all areas and shall continue for a minimum of 90 days until Final Acceptance. A weekly maintenance schedule submittal is required prior to start of the 90 day period.

3.18 FINAL ACCEPTANCE

A. General: Work of this section will be accepted when all work has been completed, including maintenance period but not including replacement of plants under guarantee. Before requesting observation for Final Acceptance, submit the following:
1. Record planting plan
2. Supplier invoices and delivery slips for all materials installed.
3. Maintenance schedule.
4. Notify Owner's Representative before Final Acceptance observation of conditions which impede plant establishment and growth.

B. Deficiencies noted during maintenance period observation which have not been corrected will terminate the Final Acceptance observation and extend the maintenance period by 90 days. Costs associated with additional observations required as a result of Contractor's failure to correct deficiencies shall be borne by Contractor.

END OF SECTION

Legend

Keynotes

Key Plan

REGISTERED LANDSCAPE ARCHITECT
R. TERRENCE CAMP
NO. 4494
REN. 09/30/20
STATE OF CALIFORNIA

camp & camp associates
planning & landscape architecture
2520 CAMINO DIABLO
WALNUT CREEK, CALIFORNIA 94597
(925) 941-6490 FAX (925) 941-6455
email: tc@campandcamp.com

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

PLANTING SPECIFICATIONS

Project No: T80310 **Date:** 06/01/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

L-5.2

CONSTRUCTION DOCS

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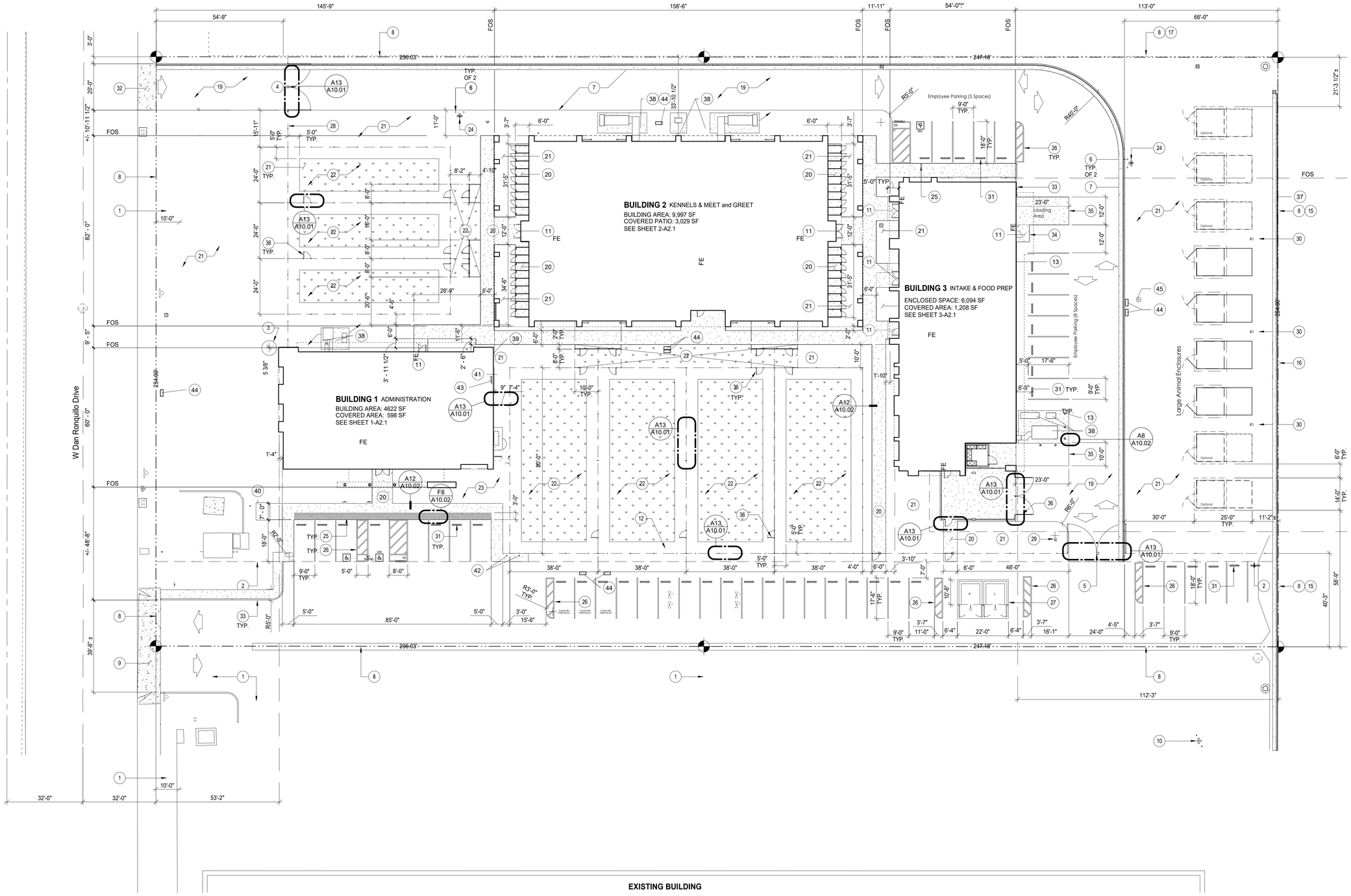


A14 | SITE PLAN
1" = 20'-0"

CAST-IN PLACE CONCRETE, SIDEWALK

STORM DRAINAGE, DRAIN BOX OR CATCH BASIN, SEE CIVIL

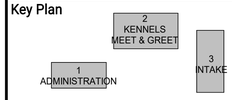
STORM DRAINAGE, MANHOLE, SEE CIVIL

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Key Notes

1. CENTER OF 10' WIDE PG&E PUE STRIP
2. EDGE OF EXISTING PAVING.
3. SITE RECONCILLATION: (+/-) 6".
4. FIRE DEPARTMENT ACCESS GATE WITH FIRE DEPARTMENT LOCK.
5. ACCESS GATE WITH FIRE DEPARMENT LOCK
6. STEEL BOLLARDS.
7. EDGE OF NEW A/C PAVEMENT.
8. PROPERTY LINE.
9. EXISTING CONCRETE DRIVE APPROACH.
10. EXISTING FIRE HYDRANT.
11. 5'-0" MIN. X 5'-0" MIN. LEVEL LANDING. 2% MAX SLOPE AT ANY DIRECTION.
12. LOCATION OF DROUGHT RESISTANT TREES.
13. STEEL AND FABRICATIONS, BOLLARD, REMOVABLE
14. NOT USED.
15. EXISTING 6' HIGH CHAIN-LINK FENCE.
16. EXISTING 6' HIGH CHAIN-LINK GATE.
17. EXISTING 6' HIGH WROUGHT IRON FENCE.
18. NOT USED.
19. ASPHALT CONCRETE DRIVEWAY.
20. CONCRETE WALK.
21. DECOMPOSED GRANITE.
22. SYNTHETIC GRASS AND TURF.
23. DROUGHT RESISTANT LANDSCAPE.
24. FIRE HYDRANT.
25. ACCESSIBLE PARKING SIGN.
26. NO PARKING STRIPE.
27. TRASH ENCLOSURE.
28. 6' HIGH CHAIN-LINK FENCE. MAXIMUM SPACE BETWEEN POSTS: 10'-0"
29. 20' HIGH SHOEBOX LED DOWNLIGHT.
30. 20' HIGH LED DIRECTION DOWNLIGHT.
31. WHEELSTOP.
32. CONCRETE DRIVE APPROACH.
33. 6" WIDE CONCRETE MOW STRIP FLUSH WITH PAVEMENT.
34. CONCRETE LANDING FLUSH WITH PAVEMENT.
35. CONCRETE DRIVE PAD FLUSH WITH PAVEMENT.
36. 6' HIGH CHAIN-LINK GATE.
37. EXISTING CONCRETE CURB TO REMAIN
38. MECHANICAL, UNIT
39. IRRIGATION CONTROLLER
40. TRANSFORMER
41. MAIN SWITCHBOARD
42. BIKE RACK, "SOLVA" PARTS 450164, 400181 & 81045
43. IRRIGATION, CONTROLS
44. ELECTRICAL, VAULT
45. ELECTRICAL, SITE LIGHT

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

SITE PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A1.1

CONSTRUCTION DOCUMNENTS

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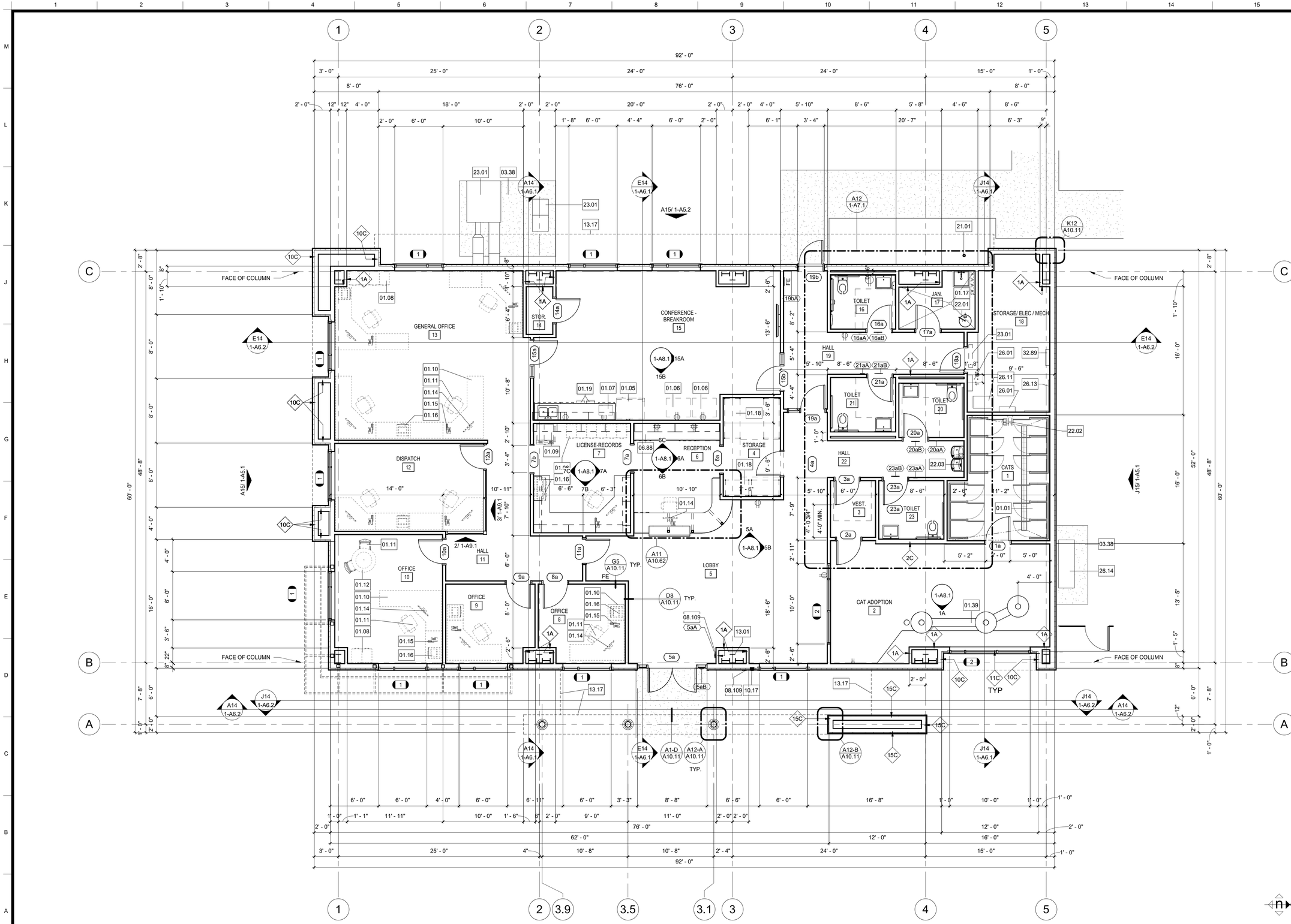


Legend

SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND DETAIL A1-A10.11
1A	WALL TYPE: ALL EXTERIOR WALLS TO BE 11C UNO. ALL INTERIOR WALLS TO BE 2A UNO.

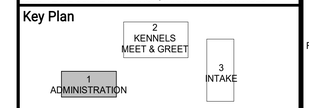
NOTES

1. REFER TO G0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR CENTER LINE, UNLESS NOTED OTHERWISE.
3. ALL ELEVATION DIMENSIONS ARE ABOVE FINISH FLOOR AT EACH FLOOR LEVEL, UNLESS NOTED OTHERWISE.
4. DIMENSIONS NOTED AS "+/-" ARE NOMINAL.
5. FLOOR DRAINS (FD) AND FLOOR SINKS (FS) SHALL BE SET -3/4" AND A MIN. OF 3'-0" FROM NEAREST WALL, UNLESS NOTED OTHERWISE.
6. IDENTIFYING DEVICES, FOR ROOM SIGNAGE REFER TO A10.81 AND SPECIFICATIONS

Keynotes

NO.	Note - Detail
01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
01.05	OWNER-FURNISHED ITEMS, REFRIGERATOR, NIC
01.06	OWNER-FURNISHED ITEMS, VENDING MACHINE, NIC
01.07	OWNER-FURNISHED ITEMS, MICROWAVE, NIC
01.08	OWNER-FURNISHED ITEMS, FILE CABINETS, NIC
01.09	OWNER-FURNISHED ITEMS, PRINTER, FLOOR MOUNT, NIC
01.10	OWNER-FURNISHED ITEMS, DESK, NIC
01.11	OWNER-FURNISHED ITEMS, CHAIR, NIC
01.12	OWNER-FURNISHED ITEMS, TABLE, NIC
01.14	OWNER-FURNISHED ITEMS, MONITOR, NIC
01.15	OWNER-FURNISHED ITEMS, PHONE, NIC
01.16	OWNER-FURNISHED ITEMS, PRINTER, DESKTOP, NIC
01.17	OWNER-FURNISHED ITEMS, MOP RACK, NIC PROVIDE WALL BACKING
01.18	OWNER-FURNISHED ITEMS, SHELVING, NIC
01.19	OWNER-FURNISHED ITEMS, WASTE AND RECYCLE CONTAINERS
01.39	OWNER-FURNISHED ITEMS, CAT CLIMBING TREE AND STEP, NIC
03.38	CAST-IN-PLACE CONCRETE, HOUSEKEEPING PAD
06.88	CASEWORK, SOLID SURFACING
08.109	AUTOMATIC ENTRANCE DOORS, DOOR OPERATOR
10.17	MISCELLANEOUS SPECIALTIES, KNOX BOX
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.17	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, LINE OF SOFFIT OR ROOF ABOVE
21.01	FIRE PROTECTION, RISER
22.01	PLUMBING, WATER HEATER
22.02	PLUMBING, HOSE BIBB, HOT AND COLD WATER, TYP.
22.03	PLUMBING, DRINKING FOUNTAIN WITH BOTTLE FILLER
23.01	MECHANICAL, UNIT
26.01	ELECTRICAL, PANEL
26.11	ELECTRICAL, LIGHT, SURFACE
26.13	ELECTRICAL, BACKBOARD
26.14	ELECTRICAL, MAIN SWITCHBOARD
32.89	LANDSCAPE IRRIGATION, IRRIGATION CONTROLS

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

FLOOR PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-A2.1

CONSTRUCTION DOCUMNENTS

A14 | FLOOR PLAN
3/16" = 1'-0"

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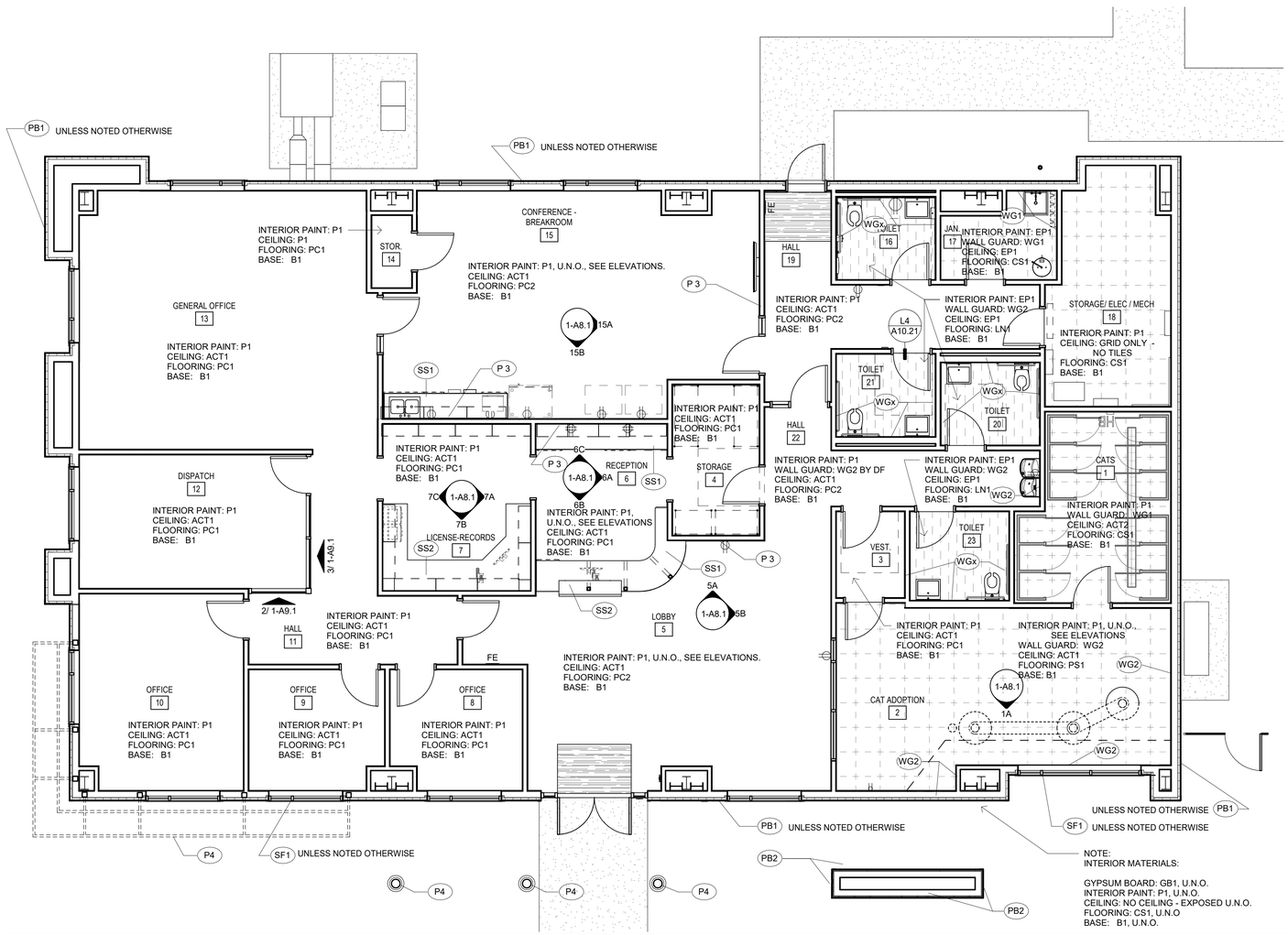


NOTE:
INTERIOR MATERIALS:

GYPSUM BOARD: GB1, U.N.O.
INTERIOR PAINT: P1, U.N.O.
CEILING: NO CEILING - EXPOSED U.N.O.
FLOORING: CS1, U.N.O
BASE: B1, U.N.O.

Finish Schedule

033535 - CONCRETE SEALER

CS1 **CONCRETE SEALER**
MANUFACTURER: GHOST SHIELD
MODEL: SILOXA-TEK 8510
GRADE: INDUSTRIAL
COLOR: NO COLOR
NOTE:

033545 - POLISHED CONCRETE FINISHING

PC1 **POLISHED CONCRETE FINISH**
MANUFACTURER: BOMANITE
MODEL: VITRAFLOR
GRADE: 1500 GRIT
COLOR: DYE, TO BE DETERMINED
FINISH: DENSIFIER: BOMANITE SABILIZER PRO, FINISH: VITRAFINISH
NOTE:

PC2 **POLISHED CONCRETE FINISH**
MANUFACTURER: BOMANITE
MODEL: VITRAFLOR
GRADE: 1500 GRIT
COLOR: NO COLOR
FINISH: DENSIFIER: BOMANITE SABILIZER PRO, FINISH: VITRAFINISH
NOTE:

064116 - CASEWORK

CW1 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: 2297-PX TERRIL, FLEX FINISH
FINISH: PLASTIC LAMINATE
NOTE:

CW2 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: 8839-58 ASHEN RIBBONWOOD, MATTE FINISH
FINISH: PLASTIC LAMINATE
NOTE:

CW3 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: M8549 MATTE BRONZE LABYRINTH
FINISH: PLASTIC LAMINATE
NOTE:

066116 - SOLID POLYMER FABRICATIONS

SS1 **MANUFACTURER:** DUPONT CORIAN
COLOR: ASH CONCRETE
NOTE: BREAKROOMS, RECEPTION AND RECORDS COUNTERTOP. PROVIDE 4" BACKSPLASH AT BREAKROOMS ONLY

SS2 **MANUFACTURER:** DUPONT CORIAN
COLOR: SILVER LINEAR
NOTE: BREAKROOMS, RECEPTION AND RECORDS COUNTERTOP. PROVIDE 4" BACKSPLASH AT BREAKROOMS ONLY

084113 STOREFRONT

SF1 **STOREFRONT**
MANUFACTURER: KAWNEER
MODEL: TRI-FAB VG 451
COLOR: BLACK NO. 29

08 15 13 LAMINATED FACED WOOD DOORS

LWD1 **DOORS**
MANUFACTURER: VT INDUSTRIES & WILSONART
MODEL: 1 1/2" SOLID CORE WITH HIGH PRESSURE LAMINATE FACES AND EDGES. PROVIDE 10" HIGH X 34" WIDE BRUSHED STAINLESS STEEL KICK PLATES AT ACESS SIDE OF DOOR.
COLOR: TO BE DETERMINED

08 11 17 PRE-FINISHED METAL FRAMES

SF1 **DOOR, SIDELITE AND WINDOW FRAMES**
MANUFACTURER: TIMELY
MODEL: STEEL, ADJUSTABLE THROAT
COLOR: BLACK SC103

08 00 00 GLAZING

SF1 **GLAZING**
MANUFACTURER: PPG
MODEL: EXTERIOR DOORS: U 0.5, SHGC 0.8
EXTERIOR WINDOWS: U 0.22, SHGC 0.29
COLOR: INTERIOR: CLEAR TEMP.
EXTERIOR: TO BE DETERMINED

092900 - GYPSUM BOARD

GB1 **TEXTURE:** LEVEL 4 "GYPSUM ASSOCIATION"/ ORANGE PEEL

095100 - ACOUSTICAL CEILINGS

ACT1 **ACOUSTICAL CEILING TILE**
MANUFACTURER: ARMSTRONG (or CHICAGO METALLIC)
TYPE: MESA SECOND LOOK
MODEL: 688
SIZE: 24"x24"x3/4"
COLOR: WHITE
GRID: PRELUDE XL 15/16"
COLOR: WHITE
NOTE: ALL ROOMS WITH EXCEPTION OF CAT ISOLATION CAT QUARANTINE & CAT ADOPTION TYPICAL, U.N.O.

ACT2 **ACOUSTICAL CEILING TILE**
MANUFACTURER: ARMSTRONG (oR CHICAGO METALLIC
TYPE: CLEAN ROOM FL
MODEL: 1716
SIZE: 24"x48"x3/4"
COLOR: WHITE
GRID: PRELUDE XL 15/16"
COLOR: WHITE
NOTE: ONLY IN CATS, CAT ISOLATION, CAT QUARANTINE & CAT ADOPTION

096513 - RESILIENT BASE

RB1 **RESILIENT BASE**
MANUFACTURER: JOHNSONITE
TYPE: MILLWORK
PROFILE: SILHOUETTE
COLOR: TO BE DETERMINED
HEIGHT: 4"
NOTE:

RB2 **RESILIENT BASE**
MANUFACTURER: JOHNSONITE
TYPE: MILLWORK
PROFILE: INFLECTION
COLOR: TO BE DETERMINED
HEIGHT: 4"
NOTE:

096518 - LINOLEUM

SYMBOL	DESCRIPTION
	LN1 a. **MANUFACUTER:** Forbo b. **STYLE:** Marmoleum Striato Textura c. **COLOR:** To be determined d. **SIZE:** 2.5mm gauge 79"Wx 105'L
	LN2 a. **MANUFACURER:** Forbo b. **STYLE:** Marmoleum Real c. **COLOR:** To be determined d. **SIZE:** 2.5mm gauge 79"Wx 105'L

099000 - INTERIOR PAINT

NOTE: CONFIRM WITH OWNER OTHER PAINTS AND LOCATIONS PRIOR TO INSTALLATION

P1 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P2 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P3 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P4 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED, EXTERIOR FILTER
COLOR: BLACK
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

EP1 **MANUFACTURER:** PPG
COLOR: TO BE DETERMINED
FINISH: EPOXY
NOTE: PUBLIC TOILET ROOM, JANITOR ROOM

102617 - MISCELLANEOUS SPECIALTIES

MS1 **WALK OFF MAT**
MANUFACTURER: TANDUS
COLOR: TO BE DETERMINED
NOTE: OWNER FURNISHED, OWNER INSTALLED, NIC

102617 - WALL PROTECTION

WG1 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: IMPACT RESISTANT PANELS
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
FIRE RATING: CLASS A
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG2 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG3 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG4 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

133419 - PRE-ENGINEERED METAL BUILDINGS

PB1 **WALL PANELS**
MANUFACTURER: DEFFERRED APPROVAL
COLOR: TO BE DETERMINED
FINISH: KYNAR 500 ON EXTERIOR, TO BE DETERMINED ON INTERIORS
FIRE RATING: Flame Spread Index less than 75 and Smoke - developed index of 450 (ASTM E84 or Ul 723
GAUGE: 26 GA
NOTE: ALL WALLS UNLESS OTHERWISE NOTED SEE EXTERIOR ELEVATIONS

PB2 **WALL PANELS**
MANUFACTURER: DEFERRED APPROVAL
COLOR: TO BE DETERMINED
FINISH: KYNAR 500 ON EXTERIOR, INTERIOR TO BE DETERMINED
FIRE RATING: Flame Spread Index less than 75 and Smoke - developed index of 450 (ASTM E84 or Ul 723
NOTE: WALLS WHERE NOTED ON EXTERIOR, SEE EXTERIOR ELEVATIONS

PB3 **ROOF PANELS**
MANUFACTURER: DEFERRED APPROVAL
COLOR: EXTERIOR - TO BE DETERMINED, INTERIOR - WHITE
FINISH: KYNAR 500 ON EXTERIOR, TO BE DETERMINED ON INTERIOR
FIRE CLASSIFICATION: CLASS A (ASTM E108 OR UL 790)
NOTE: GYP. CEILINGS AS NOTED

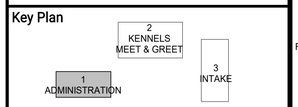
A12 | FINISH PLAN & FINISH SCHEUDLE
3/16" = 1'-0"

Legend

GENERAL NOTES

1. ALL INTERIOR FINISHES SHALL SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES.
2. REFER TO INTERIOR ELEVATIONS, CASEWORK AND FLOORING DETAILS IN COORINDATION WITH THIS PLAN.
3. REFER TO PROJECT SPECIFICATIONS AND MFG'S. PRODUCT SPECIFICATIONS FOR GENERAL PRODUCT INFORMATION. ALL INTERIOR FINISHES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER INSTALLATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SUBCONTRACTOR IS APPROVED AND QUALIFIED TO INSTALL FINISH MATERIALS & HAS EXPERIENCE WITH PROJECTS OF SIMILAR MAGNITUDE AND COMPLEXITY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LEAD TIMES AND AVAILABILITY OF ALL MATERIALS SUCH THAT MATERIALS ARE ON SITE WHEN READY FOR INSTALLATION. THE RE-SELECTION OF MATERIAL BECAUSE OF LONG LEAD TIME WILL NOT BE PERMITTED.
5. ALL LOUVERS, GRILLES, FIRE EXTINGUISHER CABINETS, REGISTERS, METAL PANELS, ETC., ON WALLS SHALL BE PAINTED TO MATCH SURFACE COLOR ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
6. ALL COLUMNS AND PARTITIONS SHALL RECEIVE SCHEDULED BASE FOR THE ROOM U.N.O.
7. THE BASE AT LOWER CABINETS TO MATCH THE WALL BASE OF THE ROOM IN WHICH THEY OCCUR U.N.O IN MILLWORK DETAILS.
8. FOR INSTALLATION OF RESILIENT SHEET FLOORING, USE MANUFACTURERS RECOMMENDED EPOXY ADHESIVE AROUND FLOOR DRAINS, UNDER SINKS, DRINKING FOUNTAINS, AT RAMP LOCATIONS AND AT AREAS WITH HEAVY ROLLING LOADS.
9. ALL TRANSITIONS BETWEEN FLOOR MATERIALS SHALL BE SMOOTH. MAXIMUM VERTICAL CHANGE IN FLOOR LEVEL SHALL BE ¼".
10. CONTRACTOR TO PROVIDE SEAMING DIAGRAM FOR APPROVAL PRIOR TO INSTALLATION OF ALL FLOORING MATERIALS.
11. ALL EXPOSED PIPES AND CONDUITS TO BE PAINTED TO MATCH ADJACENT WALL SURFACES.
12. CONTRACTOR SHALL VERIFY THAT ALL SURFACES DESIGNATED TO RECEIVE A FINISH SHALL MEET MANUFACTURERS SPECIFICATIONS TO RECEIVE SPECIFIED FINISH. CONTRACTOR SHALL NOTIFY ARCHITECT SHOULD SURFACES NOT MEET MANUFACTURER REQUIREMENTS.
13. ALL MILLWORK PL1 WITH SSF1 COUNTERTOPS, U.N.O.
14. "OR EQUAL" PRODUCTS MAY BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
15. ALL FINISHES SHALL HAVE A MINIMUM CLASS 'C' FLAME SPREAD AND SMOKE DEVELOPED CLASSIFICATION OF LESS THAN 450.
16. ALL GYPSUM BOARD SHALL BE TYPE X, FIRE RATED REGARDLESS OF CODE REQUIREMENTS.
17. ALL PAINT MATERIAL SHALL BE EPA APPROVED AS RECOMMENDED BY THE MANUFACTURER TO PROVIDEA SUITABLE AND DURABLE FINISH FOR ITS INTENDED APPLICATION.
18. PLYWOOD SHALL BE ATTACHED TO METAL STUDS WITH #6-20 ZINC PLATED X 1-1/4" I FLAT HEAD SCREWS AT EACH STUD AT 12" O.C VERTICAL STARTING 3" A.F.F. ALLOW 1/2" MINIMUM GAP BETWEEN PLYWOOD AND FINISH FLOOR.
19. PREPARE ALL FLOORS PRIOR TO INSTALL FLOOR COVERING
20. TEST ALL FLOORS TO RECIEVE FLOOR COVERING PER VAPOR ALKALINITY ASTM F 710 AND RELATIVE HUMIDITY TESTING ASTM F 2170. TEST ONLY AFTER SLABS HAVE CURED 28 DAYS.
21. PROVIDE ALLOWANCE IN BID FOR VAPOR ALKALINITY CONTROL SYSTEM FOR FLOORS RECIEVING FLOOR COVERINGS.

Key Plan



ARCHITECT:
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Rem. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

FINISH PLAN & FINISH SCHEDULE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-A2.2

CONSTRUCTION DOCUMNENTS

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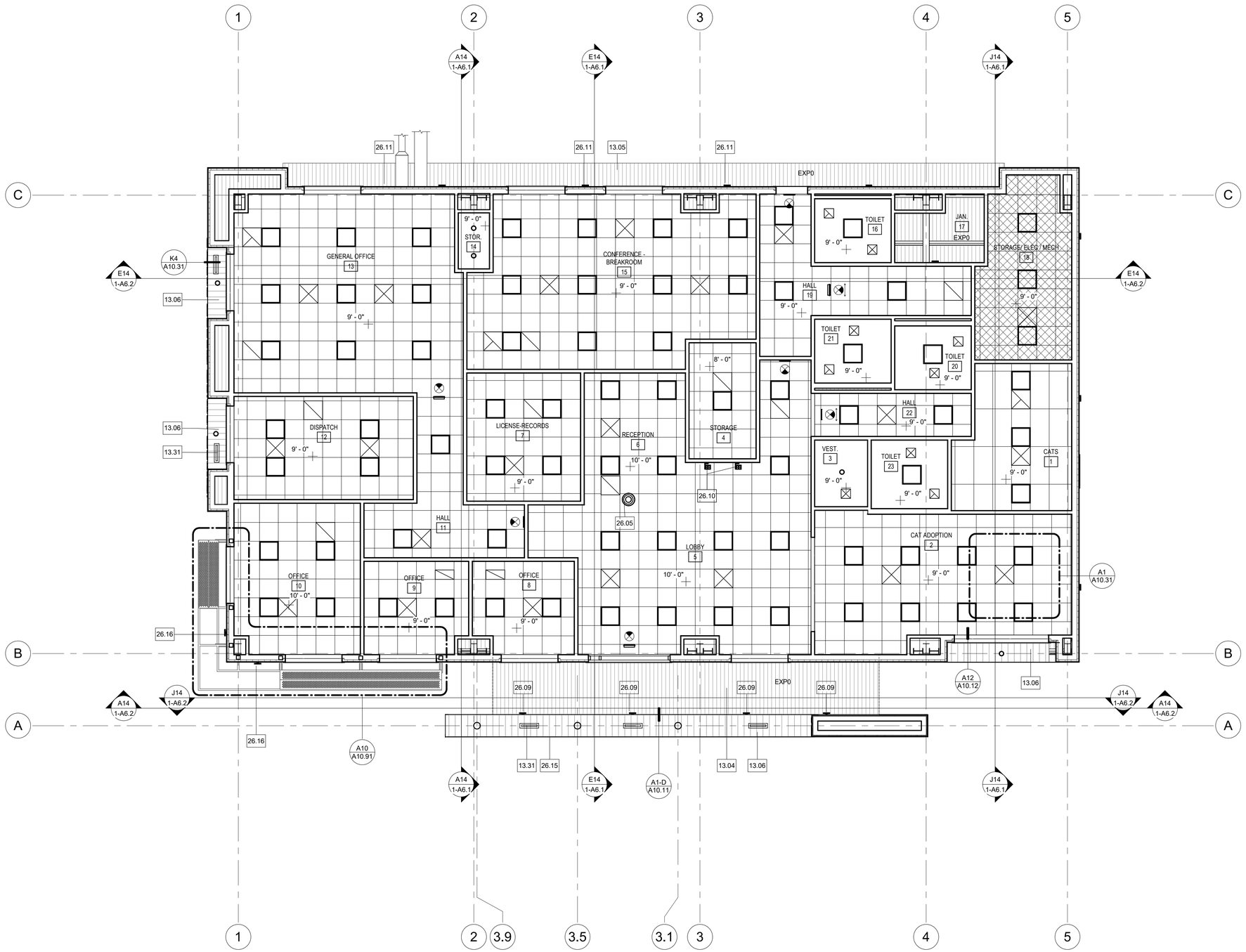


A14 REFLECTED CEILING PLAN
3/16" = 1'-0"

Legend

- SUSPENDED T-BAR CEILING WITH 2'x2' OR 2'x4' CEILING TILES
- SUSPENDED T-BAR CEILING ONLY, NO CEILING TILES
- GYPSUM BOARD CEILING & SUSPENDED GYP. BD. CEILING - SEE PLAN FOR TYPE-
- EXPO — NO CEILING - EXPOSED TO STRUCTURE ABOVE-
- PRE-ENGINEERED BUILDINGS, ACCESSORIES, METAL PANEL AT DROPPED SOFFITS
- ELECTRICAL, LIGHTING FIXTURES
- MECHANICAL. REGISTERS

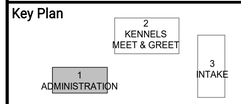
NOTES:

1. REFER TO SHEET G0.1 FOR SYMBOLS AND ABBREVIATIONS
2. REFER TO INTERIOR FINISH PLANS FOR MATERIALS TYPES AND COLORS

Keynotes

NO.	Note - Detail
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.05	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, RAKE/EAVE EXTENSION CANOPIES
13.06	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, SOFFIT
13.31	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, SOFFIT VENT
26.05	ELECTRICAL, LIGHT, PENDANT
26.09	ELECTRICAL, LIGHT, WALL WASH
26.10	ELECTRICAL, LIGHT, SPOT
26.11	ELECTRICAL, LIGHT, SURFACE
26.15	ELECTRICAL, LIGHT, BUILDING SIGNAGE
26.16	ELECTRICAL, LIGHT, WALL

Key Plan



ARCHITECT:
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

REFLECTED CEILING PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-A3.1

CONSTRUCTION DOCUMNENTS

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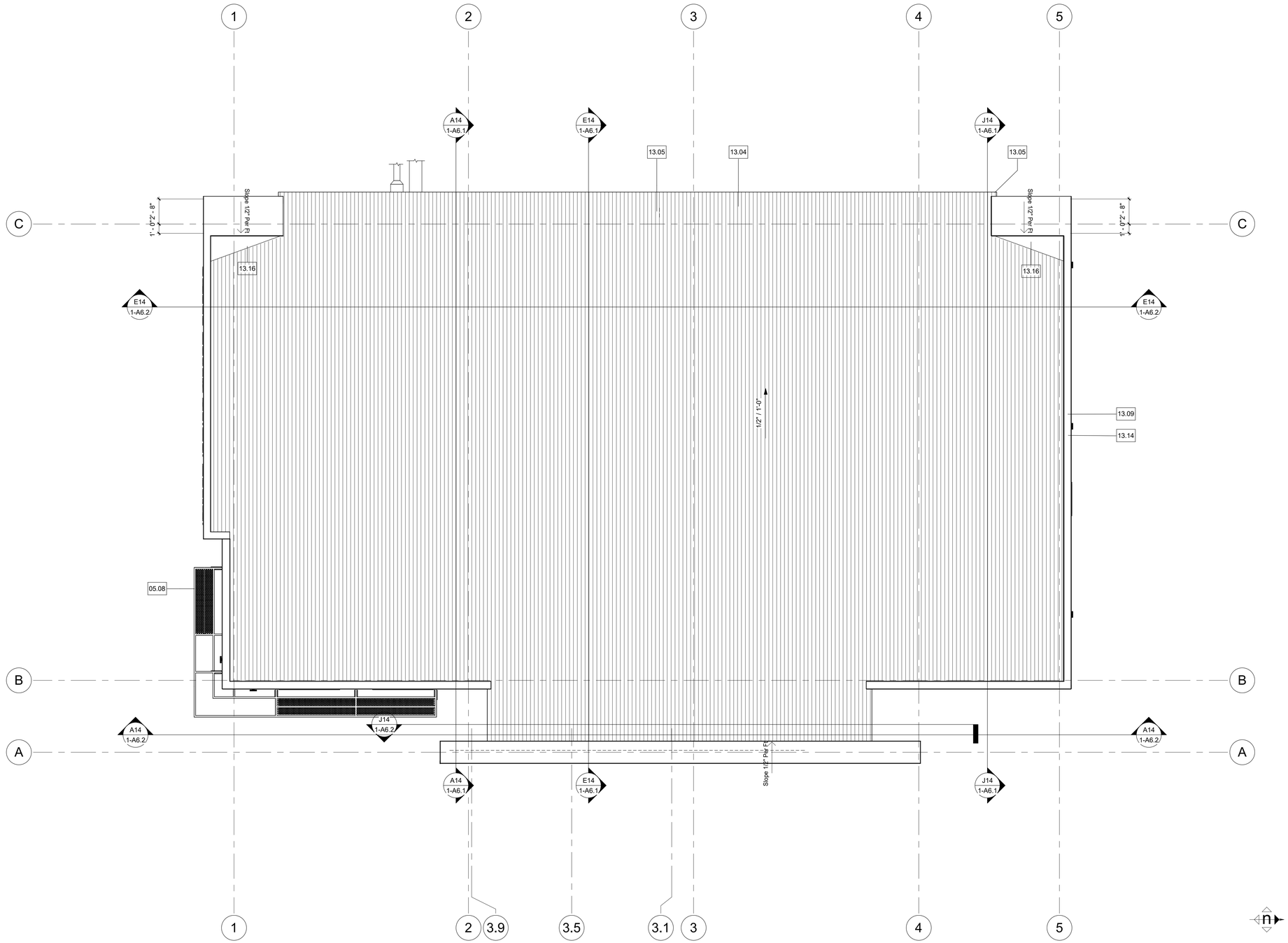


A14 ROOF PLAN
3/16" = 1'-0"

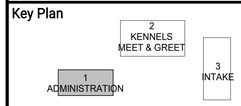
Legend

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Keynotes

NO.	Note - Detail
05.08	METAL FABRICATIONS, SUNSCREEN, GALVANIZED
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.05	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, RAKE/EAVE EXTENSION CANOPIES
13.09	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PARAPET CAP, SHEET METAL OVER 20 GUAGE TRACKS, SLOPE TRACKS TOWARDS MAIN ROOF
13.14	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PARAPET CAP, SHEET METAL, 20 GAUGE
13.16	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CRICKET

Key Plan



LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A. Architect
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

ROOF PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-A4.1

CONSTRUCTION DOCUMNENTS

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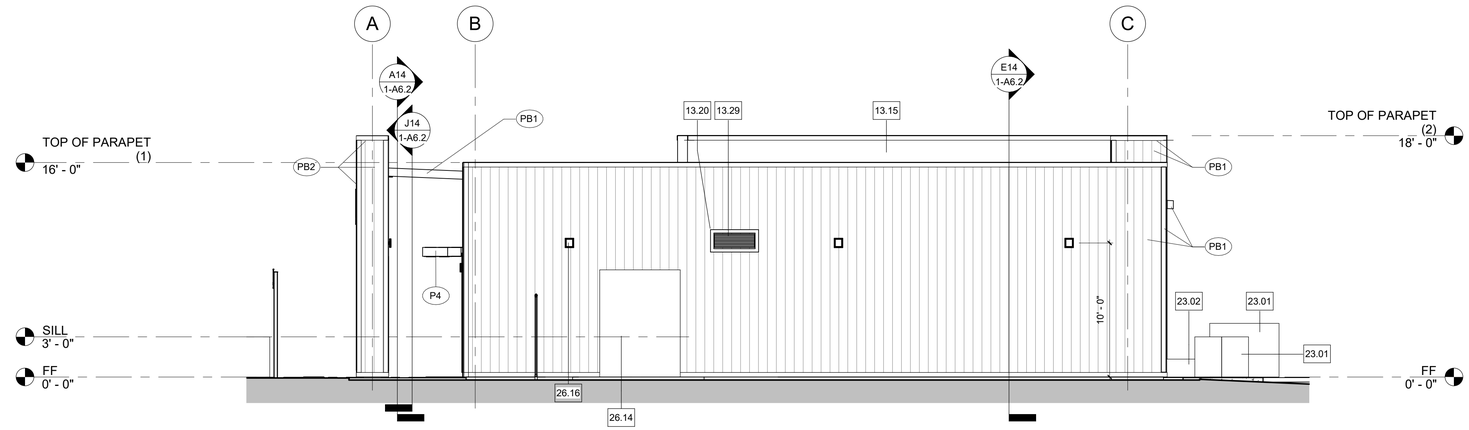
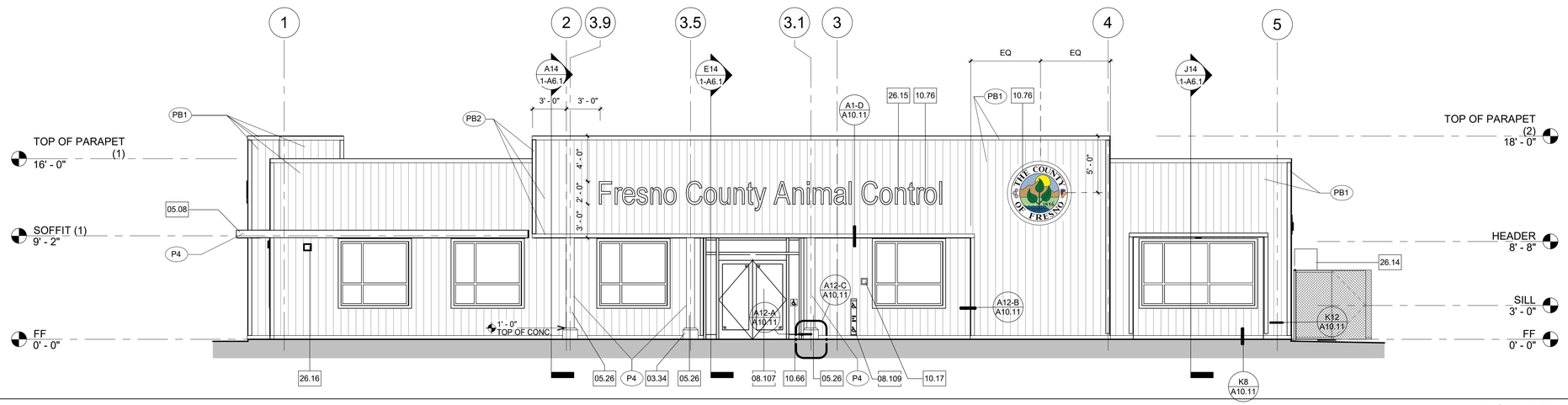
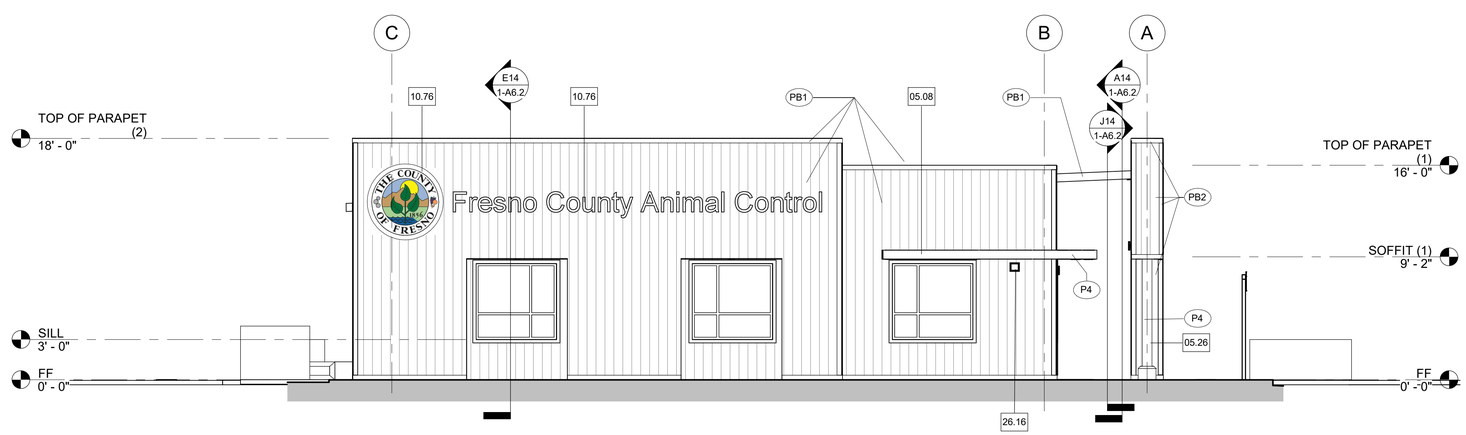


J15 | NORTH
3/16" = 1'-0"



E15 | EAST
3/16" = 1'-0"



A15 | SOUTH
3/16" = 1'-0"

Legend

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   WALLS: THERMAL BATT - R19
   RIGID OUTBOARD - R5
   ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   DOOR GLAZING: U - 0.5 , SHGC 0.8
   WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

NO.	Note - Detail
03.34	CAST-IN-PLACE CONCRETE, COLUMN BASE
05.08	METAL FABRICATIONS, SUNSCREEN, GALVANIZED
05.26	STRUCTURAL STEEL FRAMING, STEEL, COLUMN
08.107	AUTOMATIC ENTRANCE DOORS, DOORS
08.109	AUTOMATIC ENTRANCE DOORS, DOOR OPERATOR
10.17	MISCELLANEOUS SPECIALTIES, KNOX BOX
10.66	IDENTIFYING DEVICES, ACCESSIBILITY ENTRANCE
10.76	IDENTIFYING DEVICES, METAL SIGN, EXTERIOR, ALUMINUM, LAZER CUT, OWNER FURNISHED AND OWNER INSTALLED, PROVIDE BACKING
13.15	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, FLASHING, WALL TO ROOF
13.20	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, FLASHING, PENETRATION
13.29	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, ROOF CURB AND FLASHING
23.01	MECHANICAL, UNIT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
26.14	ELECTRICAL, MAIN SWITCHBOARD
26.15	ELECTRICAL, LIGHT, BUILDING SIGNAGE
26.16	ELECTRICAL, LIGHT, WALL

Key Plan

ARCHITECT:
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California Licensed Architect No. C-27818
Rem. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

EXTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-A5.1

CONSTRUCTION DOCUMNENTS

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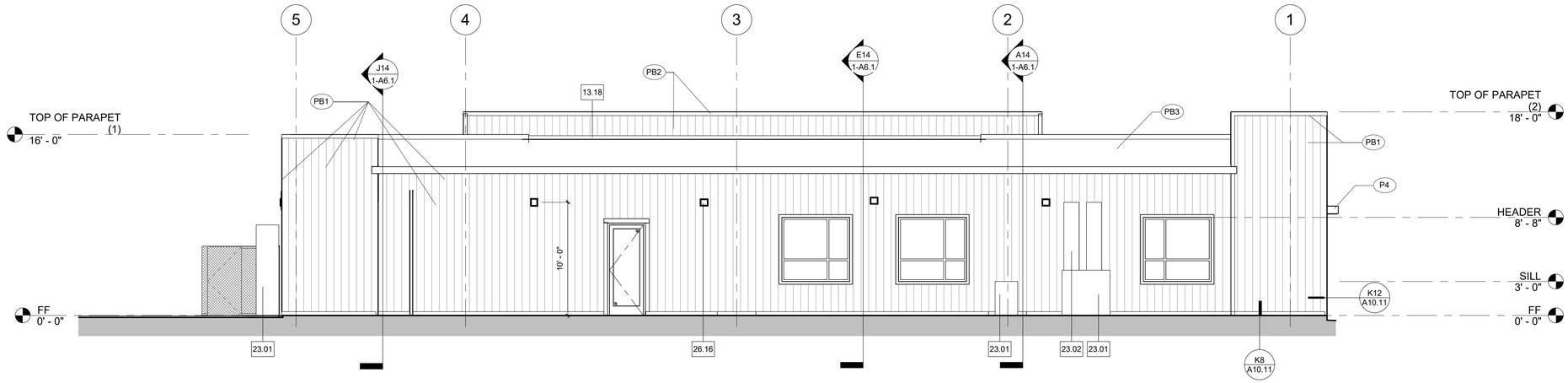


A15 | WEST
3/16" = 1'-0"

Legend

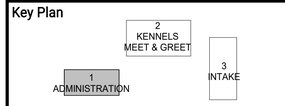
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   - WALLS: THERMAL BATT - R19
     RIGID OUTBOARD - R5
   - ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   - DOOR GLAZING: U - 0.5 , SHGC 0.8
   - WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

NO.	Note - Detail
13.18	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, FLASHING, ROOF TO WALL
23.01	MECHANICAL, UNIT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
26.16	ELECTRICAL, LIGHT, WALL

Key Plan



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Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

EXTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-A5.2

CONSTRUCTION DOCUMNENTS

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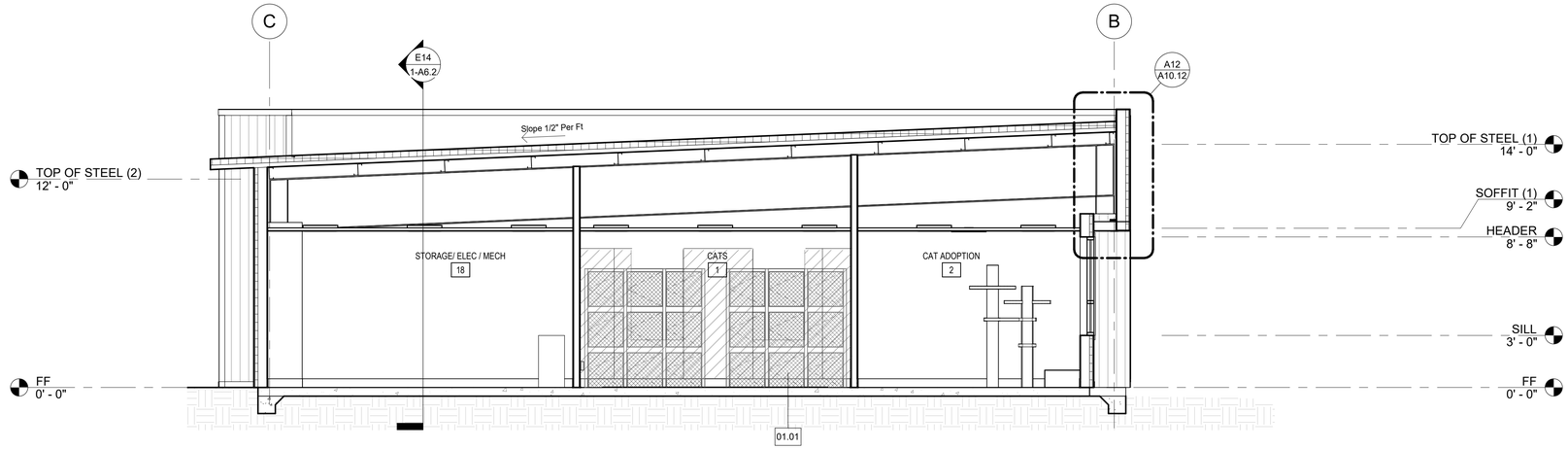
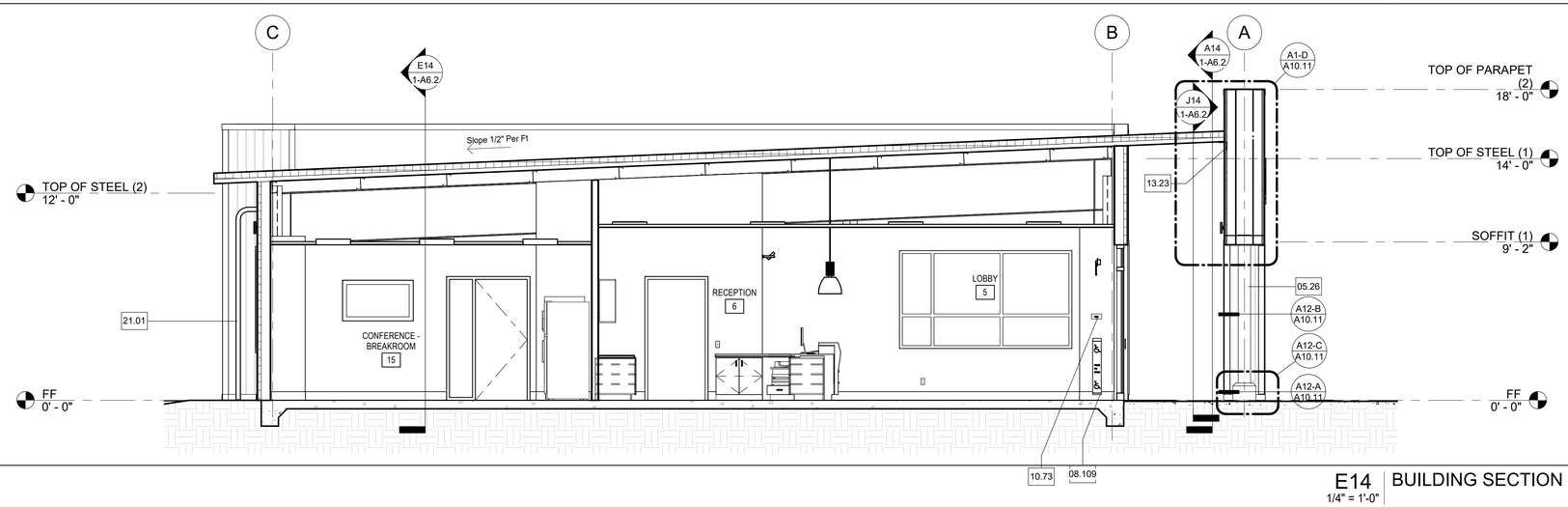
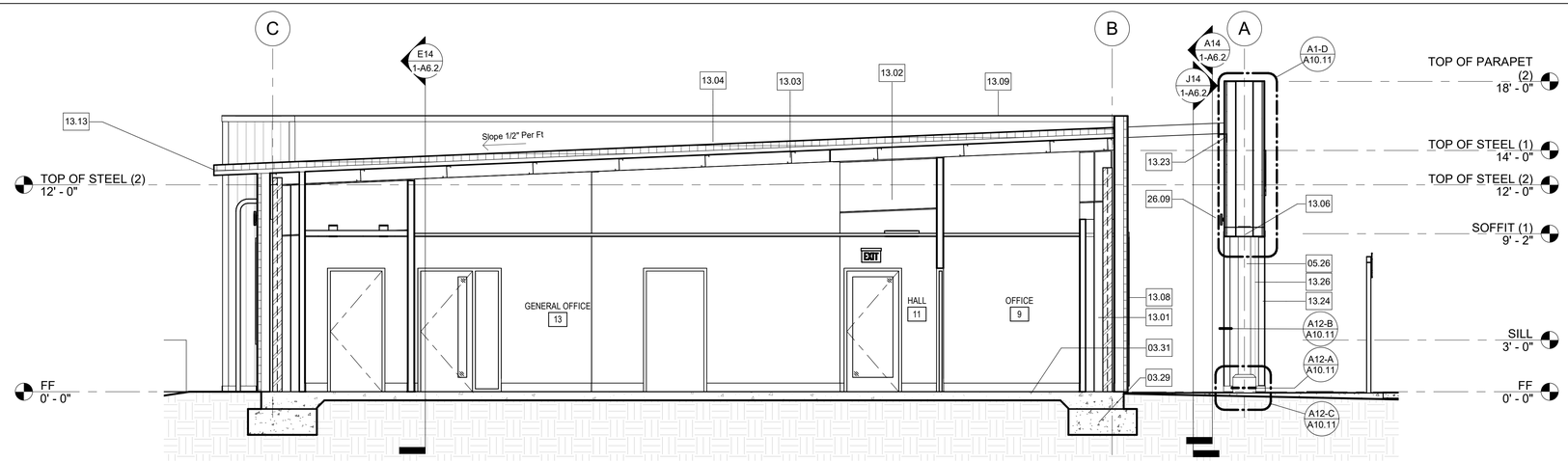


J14 | BUILDING SECTION
1/4" = 1'-0"



E14 | BUILDING SECTION
1/4" = 1'-0"



A14 | BUILDING SECTION
1/4" = 1'-0"

Legend

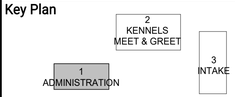
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   WALLS: THERMAL BATT - R19
   RIGID OUTBOARD - R5
   ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   DOOR GLAZING: U - 0.5 , SHGC 0.8
   WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

NO.	Note - Detail
01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
03.29	CAST-IN-PLACE CONCRETE, FOOTINGS
03.31	CAST-IN-PLACE CONCRETE, SLAB ON GRADE
05.26	STRUCTURAL STEEL FRAMING, STEEL, COLUMN
08.10	AUTOMATIC ENTRANCE DOORS, DOOR OPERATOR
9	
10.73	IDENTIFYING DEVICES, EMERGENCY EXIT
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.06	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, SOFFIT
13.08	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL SYSTEM, INSULATED
13.09	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PARAPET CAP, SHEET METAL OVER 20 GUAGE TRACKS, SLOPE TRACKS TOWARDS MAIN ROOF
13.13	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CLOUSURE, ROOF
13.23	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, LEDGER
13.24	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL, CLOSURE
13.26	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL SYSTEM, NON-INSULATED
21.01	FIRE PROTECTION, RISER
26.09	ELECTRICAL, LIGHT, WALL WASH

Key Plan



LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A. Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

BUILDING SECTIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-A6.1

CONSTRUCTION DOCUMNENTS

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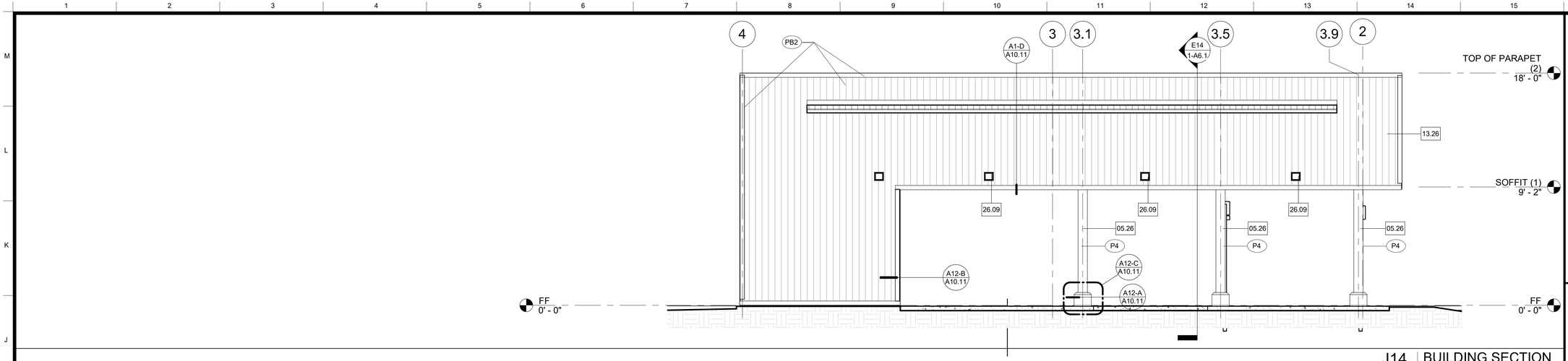
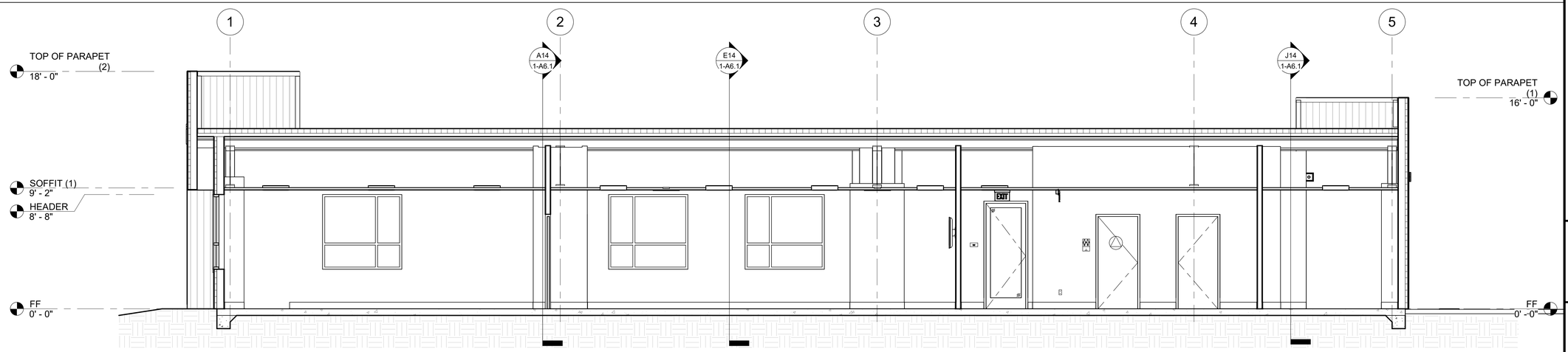
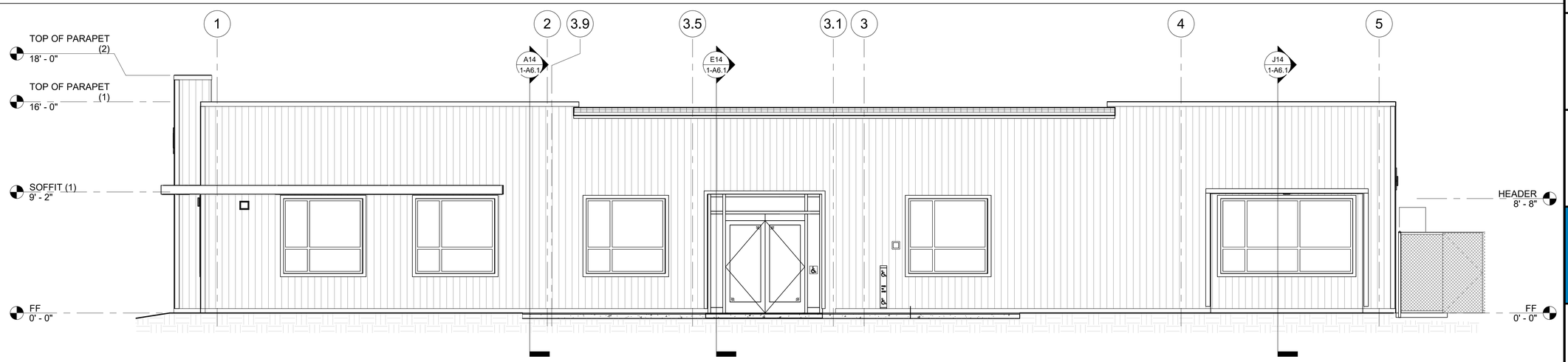


J14 | BUILDING SECTION
1/4" = 1'-0"



E14 | BUILDING SECTION
1/4" = 1'-0"



A14 | BUILDING SECTION
1/4" = 1'-0"

Legend

NOTES

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   RIGID OUTBOARD - R5
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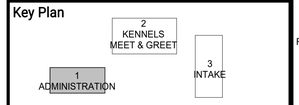
   DOOR GLAZING: U - 0.5 , SHGC 0.8
   WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

NO.	Note - Detail
05.26	STRUCTURAL STEEL FRAMING, STEEL, COLUMN
13.26	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL SYSTEM, NON-INSULATED
26.09	ELECTRICAL, LIGHT, WALL WASH

Key Plan



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Project

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Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

BUILDING SECTIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-A6.2

CONSTRUCTION DOCUMNENTS

Drawn by: AH Plotted on: 6/29/2020 12:47:19 PM

Legend - Interior Elevations

SYMBOLS

- ELECTRICAL, DUPLEX OUTLET
- ELECTRICAL, FOURPLEX OUTLET
- ELECTRICAL, LIGHT SWITCH
- AV — ELECTRICAL, FIRE ALARM DEVICE, STOBE AND AUDIO, SEE FIRE ALARM DRAWINGS
- V — ELECTRICAL, FIRE ALARM DEVICE, STROBE, SEE FIRE ALARM DRAWINGS
- D — TELECOMMUNICATIONS, DATA OUTLET
- HARDWARE, ACTUATOR
- T — MECHANICAL, THERMOSTAT

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. ALL DETAILS, MATERIAL AND FINISHES SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
3. REFER TO PLUMBING, TELECOMMUNICATION, SERVICE AND ELECTRICAL FOR ALL WALL MOUNTED DEVICES AND COORDINATE LOCATION AND HEIGHTS WITH ARCHITECTURAL (I.E. CASEWORK, EQUIPMENT, ETC.).
4. LOCATE AND MOUNT IDENTIFYING DEVICES PER SIGNAGE SCHEDULE.
5. LOCATE AND MOUNT TOILET ACCESSORIES AND PLUMB. FIXTURES PER DETAIL A12/A10.71 UNO.
6. PROVIDE BACKING AT TOILET ACCESSORIES AND IDENTIFYING DEVICES PER DETAILS A12/A10.71 UNO.
7. PROVIDE BACKING AT ALL MODULAR CASEWORK PER DETAIL A12/A10.13 OR D12/A10.13
8. SEE FINISH PLAN & FINISH SCHEDULE 1-A2.2 FOR INTERIOR COLOR SCHEDULE AND PATTERNS

Legend - Floor Plan

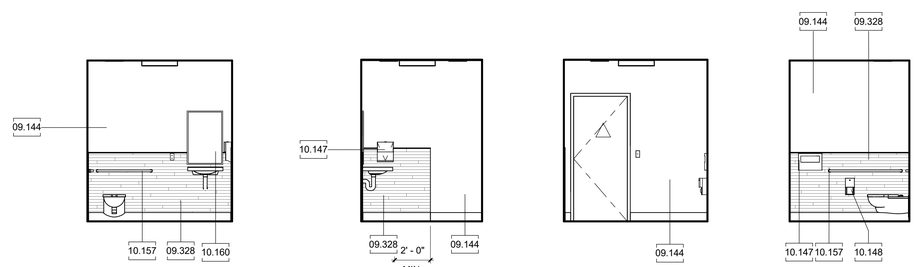
SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND DETAIL A1-A10.11
1A	WALL TYPE: ALL EXTERIOR WALLS TO BE 11C UNO. ALL INTERIOR WALLS TO BE 2A UNO.

NOTES

1. REFER TO G0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR CENTER LINE, UNLESS NOTED OTHERWISE.
3. ALL ELEVATION DIMENSIONS ARE ABOVE FINISH FLOOR AT EACH FLOOR LEVEL, UNLESS NOTED OTHERWISE.
4. DIMENSIONS NOTED AS "+/-" ARE NOMINAL.
5. FLOOR DRAINS (FD) AND FLOOR SINKS (FS) SHALL BE SET -3/4" AND A MIN. OF 3'-0" FROM NEAREST WALL, UNLESS NOTED OTHERWISE.
6. IDENTIFYING DEVICES, FOR ROOM SIGNAGE REFER TO A10.81 AND SPECIFICATIONS

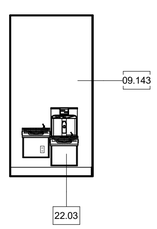
Keynotes

NO.	Note - Detail
01.17	OWNER-FURNISHED ITEMS, MOP RACK, NIC PROVIDE WALL BACKING
08.02	METAL DOORS AND FRAMES, DOORS
08.25	WOOD DOORS, DOOR
08.104	STOREFRONTS, DOOR
08.105	STOREFRONTS, FRAME
08.205	PRE-FINISHED METAL DOORS, DOOR SWING, ALLOWED TO SWING INTO ANY FIXTURE CLEARANCE IF 30X48 CLEAR SPACE CLEAR OF DOOR IS PROVIDED IN ROOM
09.138	GYPSUM BOARD, WALLBOARD, FIRE RATED
09.143	GYPSUM BOARD, WATER RESISTANT, NON-FIRE RATED
09.144	GYPSUM BOARD, WATER RESISTANT, FIRE RATED
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
10.67	IDENTIFYING DEVICES, TOILET ROOM
10.68	IDENTIFYING DEVICES, TOILET DOOR
10.147	TOILET ACCCESSORIES, PAPER TOWEL DISPENSER
10.148	TOILET ACCCESSORIES, TOILET TISSUE DISPENSER
10.157	TOILET ACCCESSORIES, GRAB BAR
10.160	TOILET ACCCESSORIES, MIRROR
22.01	PLUMBING, WATER HEATER
22.03	PLUMBING, DRINKING FOUNTAIN WITH BOTTLE FILLER



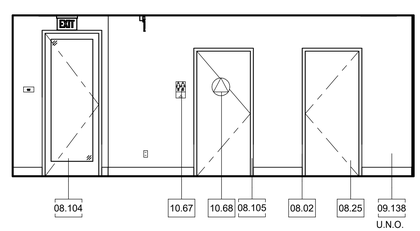
16A 16B 16C 16D

16 TOILET
(20 TOILET & 21 TOILET OPPOSITE HAND & 23 TOILET SIMILAR)



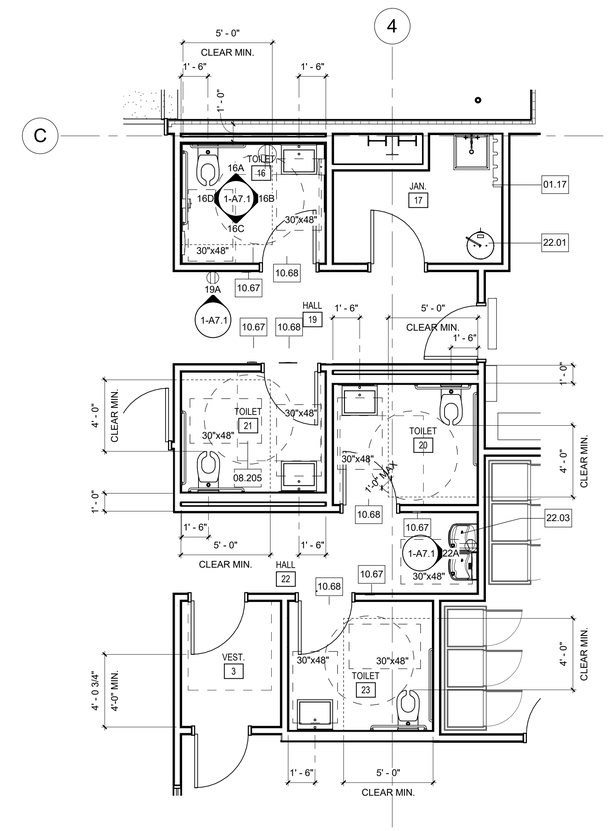
22A

22 HALL



19A

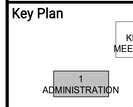
19 HALL



ENLARGED FLOOR PLAN

A12 ENLARGED PLANS & INTERIOR ELEVATIONS
1/4" = 1'-0"

Key Plan



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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

ENLARGED RESTROOM PLANS AND INTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-A7.1

CONSTRUCTION DOCUMNENTS

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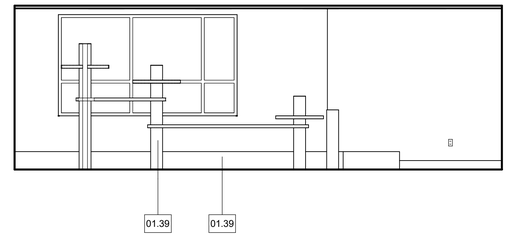
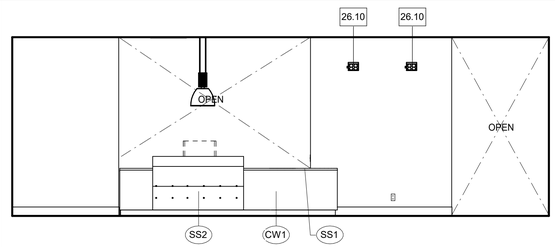
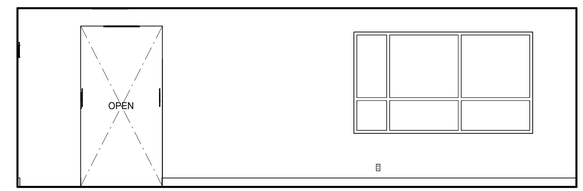


1A

1
1/4" = 1'-0"
CAT ADOPTION

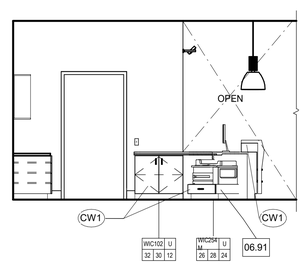


5A

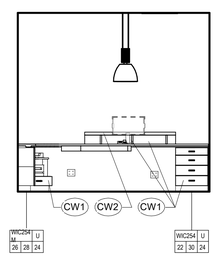


5B

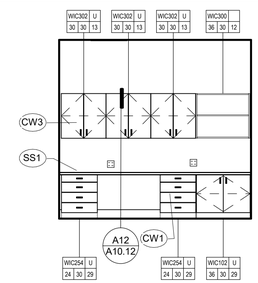
5
1/4" = 1'-0"
LOBBY



6A

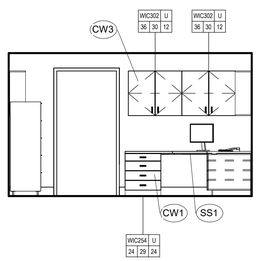


6B



6C

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



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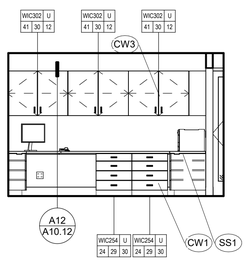
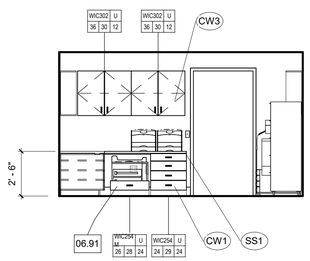
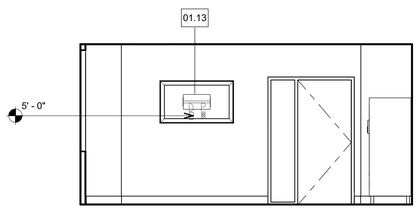


7B

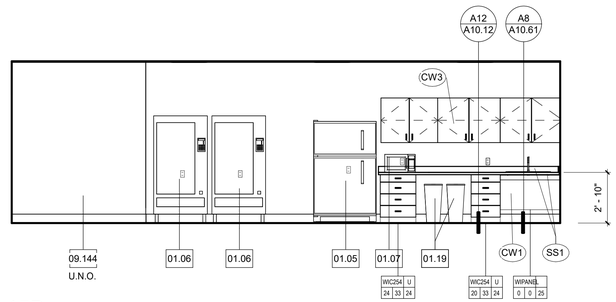


7C

7
1/4" = 1'-0"
LICENSE-RECORDS



15A



15B

15
1/8" = 1'-0"
CONFERENCE-BREAKROOM

Legend

SYMBOLS

- ELECTRICAL, DUPLEX OUTLET
- ELECTRICAL, FOURPLEX OUTLET
- ELECTRICAL, LIGHT SWITCH
- AV — ELECTRICAL, FIRE ALARM DEVICE, STOBE AND AUDIO, SEE FIRE ALARM DRAWINGS
- V — ELECTRICAL, FIRE ALARM DEVICE, STROBE, SEE FIRE ALARM DRAWINGS
- TELECOMMUNICATIONS, DATA OUTLET
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- T — MECHANICAL, THERMOSTAT

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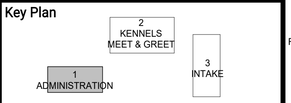
7. PROVIDE BACKING AT ALL MODULAR CASEWORK PER DETAIL A12/A10.13 OR D12/A10.13
8. SEE FINISH PLAN & FINISH SCHEDULE 1-A2.2 FOR INTERIOR COLOR SCHEDULE AND PATTERNS

Keynotes

NO.	Note - Detail
01.05	OWNER-FURNISHED ITEMS, REFRIGERATOR, NIC
01.06	OWNER-FURNISHED ITEMS, VENDING MACHINE, NIC
01.07	OWNER-FURNISHED ITEMS, MICROWAVE, NIC
01.13	OWNER-FURNISHED ITEMS, TELEVISION, NIC, PROVIDE WALL BACKING
01.19	OWNER-FURNISHED ITEMS, WASTE AND RECYCLE CONTAINERS
01.39	OWNER-FURNISHED ITEMS, CAT CLIMBING TREE AND STEP, NIC
06.91	CASEWORK, MOBILE, PRINTER SHELF, HEAVY DUTY CASTERS
09.144	GYPSUM BOARD, WATER RESISTANT, FIRE RATED
26.10	ELECTRICAL, LIGHT, SPOT

Key Plan



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Project

ANIMAL CONTROL CENTER

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FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

INTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-A8.1

CONSTRUCTION DOCUMNENTS

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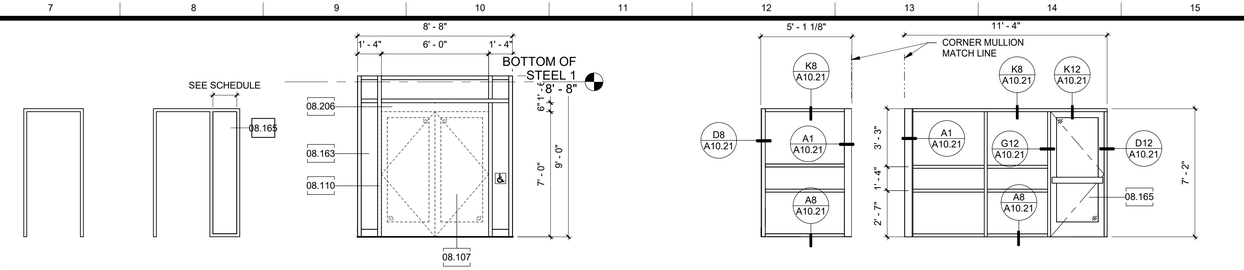
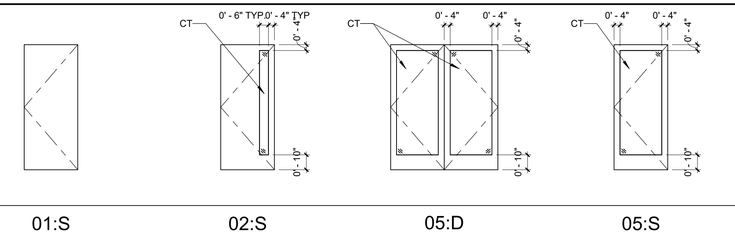


K14 DOOR FRAME TYPES

1/4" = 1'-0"



G14 DOOR PANEL TYPES

1/4" = 1'-0"

Signage Schedule

Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Sign Copy Line 4	Sign Copy Line 5	Sign Copy Line 6	Sign Copy Line 7	Sign Copy Line 8	Mtg Height	Mtg Cond	Mtg Loc	Remarks
5aA	E1	IP	LINE 1	N/A	N/A	-	-	-	-	-	5' - 0"	3	SR-3	-
5aB	EN1	D	-	-	-	-	-	-	-	-	3' - 4"	4	-	-
16aA	R1	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	3	SR-1	-
16aB	R2	IP	N/A	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
19bA	E1	IP	EXIT	-	-	-	-	-	-	-	5' - 0"	3	SR-1	-
20aA	R1	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	3	SR-1	-
20aB	R2	IP	N/A	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
21aA	R1	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	3	SR-1	-
21aB	R2	IP	N/A	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
23aA	R1	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	3	SR-1	-
23aB	R2	IP	N/A	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-

MOUNTING CONDITION

1. METAL STUD FRAMED WALL
2. NOT USED
3. NOT USED
4. GLASS
5. DOOR
6. SEE PLAN

SIGN MATERIAL:

EP = EXTERIOR PLASTIC.
IP = INTERIOR PLASTIC.
D = DECAL.

ABBREVIATIONS:
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED

GENERAL NOTE:
1. PROVIDE BACKSIDE BLACKOUT MATERIAL FOR SIGN WHEN MOUNTING TO GLAZING.

MOUNTING HEIGHT: A12 / A10.81

MOUNTING LOCATION:

STRIKE SIDE ADJACENT (S-1).
STRIKE SIDE ADJACENT REVERSE SWING (SR-1).

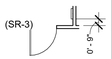
STRIKE SIDE AWAY (S-2).
SRIKE SIDE AWAY REVERSE SWING (SR-2).

HINGE SIDE ADJACENT (H-1).
HINGE SIDE ADJACENT REVERSE SWING (HR-1).

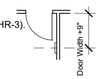
DOOR MOUNTED (D-1).
DOOR MOUNTED REVERSE SWING (DR-1)

SLIDING DOOR MOUNT (SD-1)

STRIKE SIDE ADJACENT WALL REVERSE SWING (SR-3)
STRIKE SIDE ADJACENT WALL (S-3)

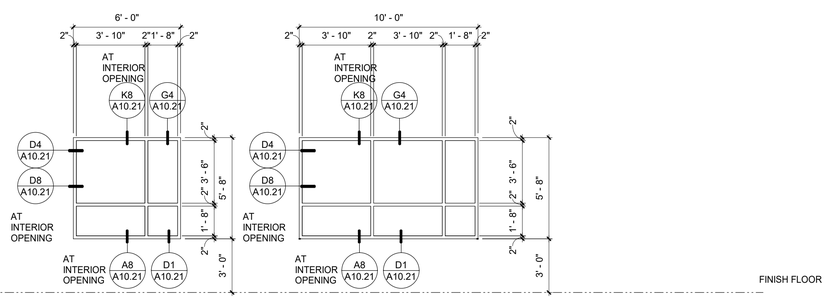


HINGE SIDE ADJACENT WALL (H-3).
HINGE SIDE ADJACENT WALL REVERSE SWING (HR-3).



D5 SIGNAGE SCHEDULE

1/4" = 1'-0"



NOTE: GLAZING AT WINDOWS:
INTERIOR: CLEAR TEMPERED
EXTERIOR: U - 0.29, SHGC - 0.22

A5 WINDOW SCHEDULE

1/4" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	DOOR OR CASED OPENING SIZE # OF	WIDTH PANEL	HEIGHT	Fire Rating	Door MATERIAL	FINISH	PANEL TYPE	UNDERCUT	FRAME MATERIAL	FINISH	FRAME TYPE	HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.21 U.N.O.) HEAD	JAMB 1	JAMB 2	THRESH	Comments
1a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	DOOR GASKETING ALL SIDES, TOP AND BOTTOM
2a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	
3a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
4a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
5a	2	3' - 0"	7' - 6"	NR	AL	FF	05 : D	0' - 0"	AL	FF	FRAME : CUSTOM	1	Yes	IG	G4,D8-A10.22	D4,A8-A10.22	D4	A12	AUTOMATIC ENTRANCE DOORS
6a	1	3' - 4"	7' - 0"	NR	-	-	10 Cased Opening : S	0' - 0"	PM	FF	A : S	-	No	-	K12	D12	D12	-	
7a	1	3' - 4"	7' - 0"	NR	-	-	10 Cased Opening : S	0' - 0"	PM	FF	A : S	-	No	-	K12	D12	D12	-	
7b	1	3' - 4"	7' - 0"	NR	-	-	10 Cased Opening : S	0' - 0"	PM	FF	A : S	-	No	-	K12	D12	D12	-	
8a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
9a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
10a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
11a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	
12a	1	3' - 0"	7' - 0"	NR	WD	FF	05 : S	0' - 0"	PM	FF	FRAME : CUSTOM	2	Yes	CT	D1-A10.22	A1-A10.22	D4	-	AUTOMATIC ENTRANCE DOOR
14a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
15a	1	3' - 0"	7' - 0"	NR	WD	PL	02 : S	0' - 0"	PM	FF	B : S	2	No	-	K12	D12	D12	-	
15b	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	B : S	2	No	-	K12	D12	D12	-	
16a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	L4	
17a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
18a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
19a	1	3' - 0"	7' - 0"	NR	WD	PL	02 : S	0' - 0"	PM	FF	B : S	3	No	CT	K12	D12	D12	-	
19b	1	3' - 0"	8' - 0"	NR	AL	PL	05 : S	0' - 0"	AL	FF	A : S	1	No	IG	D8	A8	A8	A12	
20a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	L4	
21a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	L4	
23a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	L4	

DOOR SCHEDULE LEGEND

AL	ALUMINUM
CT	CLEAR TEMPERED
D	DOUBLE LEAVES
FF	FACTORY FINISH
FG	FIRE RATED GLAZING
HM	HOLLOW METAL
IG	INSULATED GLAZING
NR	NON RATED
PL	PLASTIC LAMINATE
PM	PRE-FINISHED METAL DOOR FRAMES WITH ADJUSTABLE THROAT
PT	PAINTED
STAIN	STAINED
WD	SOLID CORE WOOD
WV	WOOD VENEER
-	NOT APPLICABLE

NOTES

1. ALL EXITS DOOR TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
2. PROVIDE 18" STRIKE CLEARANCE FOR THE DOORS.
3. SPECIFY 18" STRIKE-SIDE X 60" DEEP CLEARANCE AT DOORS.
4. SPECIFY ALL DOORS ARE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE (i.e., LEVER) CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR.
5. SPECIFY MAXIMUM DOOR OPENING EFFORTS OF 5 LBS. AT EXTERIOR AND INTERIOR DOORS, AND 15 LBS. AT FIRE DOORS.
6. SPECIFY 10" KICK PLATE AT BOTTOM OF THERE ARE GLAZED DOORS (i.e. STOREFRONT-TYPE).
7. FOR DOOR HARDWARE- PERFORMACE SPECIFICATION FOR DOOR HARDWARE GROUPS, SEE DETAIL A4 / A10.23
8. DOORS AT CROSS CORRIDOR/HALLWAY SHALL BE OPERABLE FROM BOTH SIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE.
9. FOR INFORMATION REGARDING CARD READER SEE OWNER
10. NOT USED
11. FOR LOCATION OF DOOR OPERATOR PUSH PADDLE SEE DETAIL A4 / A10.81
12. THE CONTRACTOR WHALL SUBMIT A COMPLETE DOOR AND HARDWARE SCHEDULE TO BE INSTALLED ON THIS PROJECT FOR REVIEW, COMMENT AND APPROVAL.
13. VERIFY AND COORDINATE ALL ELECTRONIC ACESS DEVICES, KEY ACCESS REQUIREMENTS, HARDWARE SPECIFICATIONS, AND DOOR OPERATIONS WITH FRESNO COUNTY FACILITY SERVICES PRIOR TO ORDERING MATERIALS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO COUNT AND VERIFY NUMBER AND QUANTITY OF DOORS.
15. SEE SHEET 1-A2.2 FOR OTHER DOOR AND FRAME INFORMATION AND COLORS.

A14 DOOR SCHEDULE

Legend

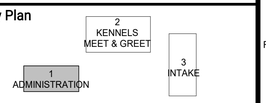
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   WALLS: THERMAL BATT - R19
   RIGID OUTBOARD - R5
   ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   DOOR GLAZING: U - 0.5 , SHGC 0.8
   WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

NO.	Note - Detail
08.107	AUTOMATIC ENTRANCE DOORS, DOORS
08.110	AUTOMATIC ENTRANCE DOORS, FRAMES
08.163	GLAZING, TEMPERED, U-0.5, SHGC 0.8
08.165	GLAZING, CLEAR, TEMPERED (CT)
08.206	AUTOMATIC ENTRANCE DOORS, OVERHEAD CONCEALED OPERATOR

Key Plan



ARCHITECT:
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California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

DOOR, WINDOW & SIGNAGE SCHEDULE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-A9.1

CONSTRUCTION DOCUMNENTS

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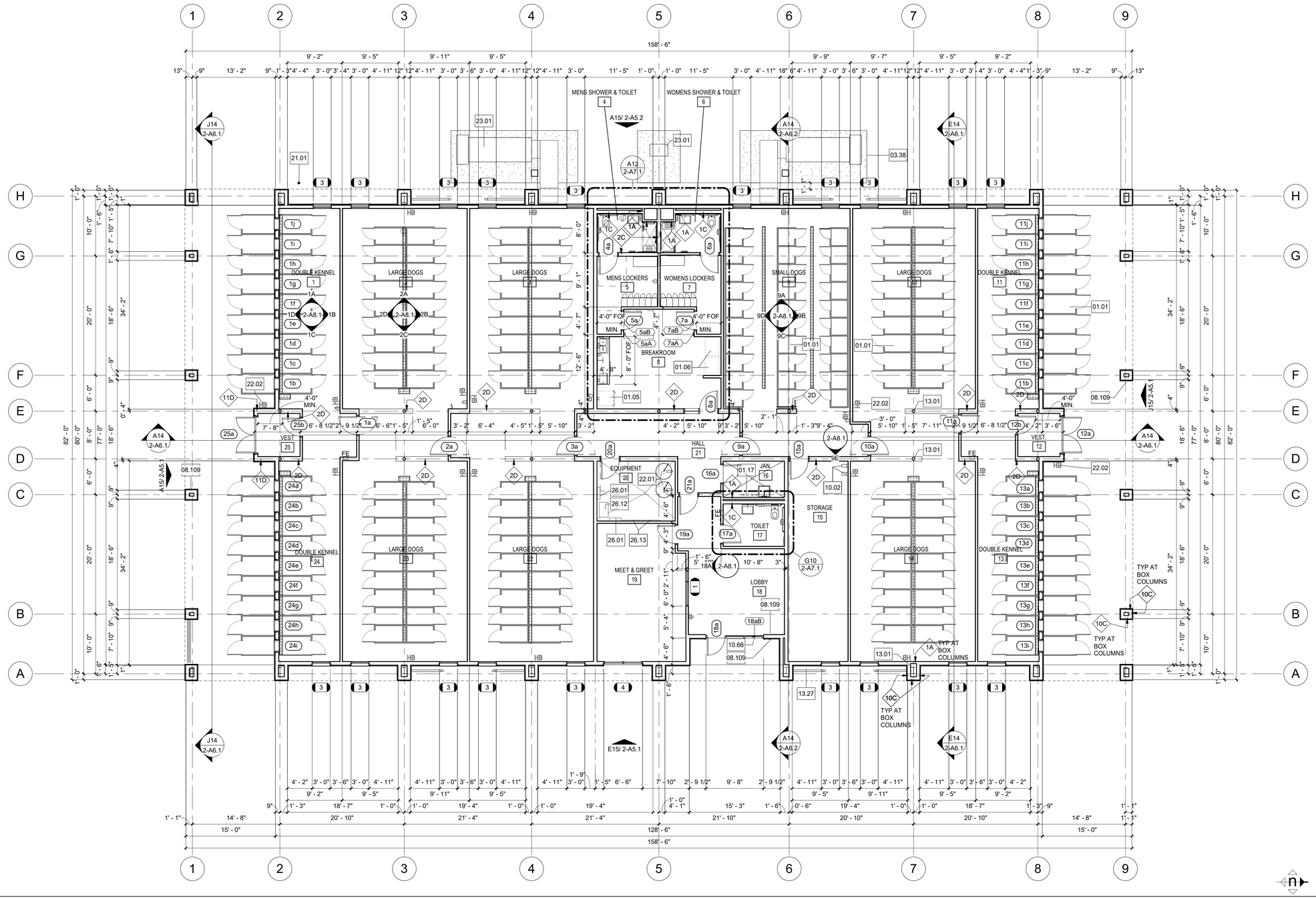


A14 FLOOR PLAN
1/8" = 1'-0"

Legend - Floor Plan

SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND DETAIL A1-A10.11
1A	WALL TYPES: ALL EXTERIOR WALLS TO BE 11C UNO. ALL INTERIOR WALLS TO BE 2A UNO.

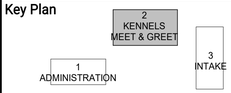
NOTES

1. REFER TO G0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR CENTER LINE, UNLESS NOTED OTHERWISE.
3. ALL ELEVATION DIMENSIONS ARE ABOVE FINISH FLOOR AT EACH FLOOR LEVEL, UNLESS NOTED OTHERWISE.
4. DIMENSIONS NOTED AS "+/-" ARE NOMINAL.
5. FLOOR DRAINS (FD) AND FLOOR SINKS (FS) SHALL BE SET -3/4" AND A MIN. OF 3'-0" FROM NEAREST WALL, UNLESS NOTED OTHERWISE.
6. IDENTIFYING DEVICES, FOR ROOM SIGNAGE REFER TO A10.81 AND SPECIFICATIONS

Keynotes

01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
01.05	OWNER-FURNISHED ITEMS, REFRIGERATOR, NIC
01.06	OWNER-FURNISHED ITEMS, VENDING MACHINE, NIC
01.17	OWNER-FURNISHED ITEMS, MOP RACK, NIC PROVIDE WALL BACKING
03.38	CAST-IN-PLACE CONCRETE, HOUSEKEEPING PAD
08.109	AUTOMATIC ENTRANCE DOORS, DOOR OPERATOR
10.02	MISCELLANEOUS SPECIALTIES, BIKE RACK, LONG TERM, WALL HUNG, "PARGIS" MODEL, BASIC WITH LOCKING GATE ASSEMBLY, PROVIDE BACKING
10.66	IDENTIFYING DEVICES, ACCESSIBILITY ENTRANCE
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.27	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, ROD BRACE
21.01	FIRE PROTECTION, RISER
22.01	PLUMBING, WATER HEATER
22.02	PLUMBING, HOSE BIBB, HOT AND COLD WATER, TYP.
23.01	MECHANICAL, UNIT
26.01	ELECTRICAL, PANEL
26.12	ELECTRICAL, TRANSFORMER
26.13	ELECTRICAL, BACKBOARD

Key Plan



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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

FLOOR PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

2-A2.1

CONSTRUCTION DOCUMENTS

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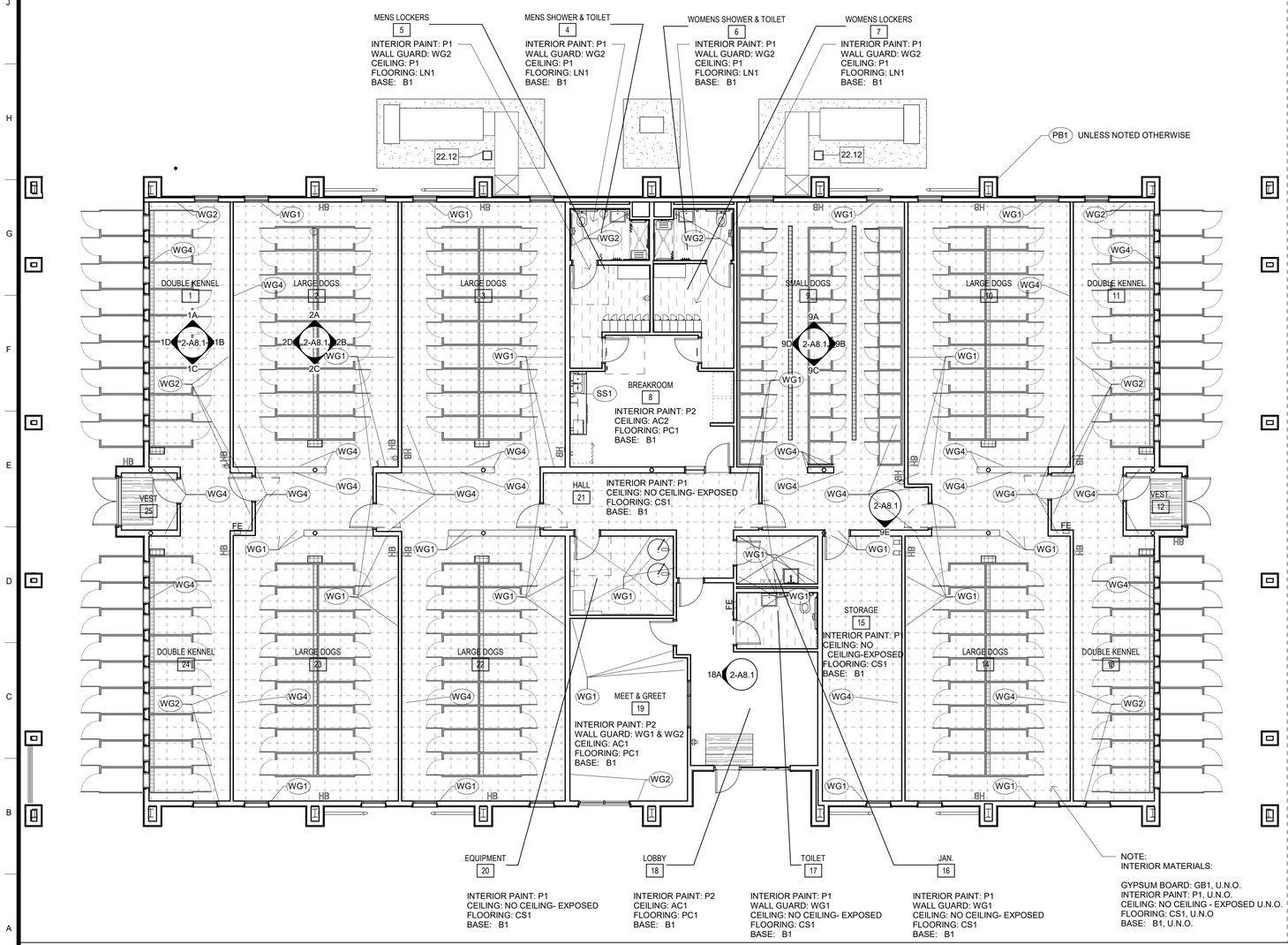


Finish Schedule

033535 - CONCRETE SEALER

CS1 **CONCRETE SEALER**
MANUFACTURER: GHOST SHIELD
MODEL: SILOXA-TEK 8510
GRADE: INDUSTRIAL
COLOR: NO COLOR
NOTE:

033545 - POLISHED CONCRETE FINISHING

PC1 **POLISHED CONCRETE FINISH**
MANUFACTURER: BOMANITE
MODEL: VITRAFLOR
GRADE: 1500 GRIT
COLOR: DYE, TO BE DETERMINED
FINISH: DENSIFIER: BOMANITE SABILIZER PRO, FINISH: VITRAFINISH
NOTE:

PC2 **POLISHED CONCRETE FINISH**
MANUFACTURER: BOMANITE
MODEL: VITRAFLOR
GRADE: 1500 GRIT
COLOR: NO COLOR
FINISH: DENSIFIER: BOMANITE SABILIZER PRO, FINISH: VITRAFINISH
NOTE:

064116 - CASEWORK

CW1 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: 2297-PX TERRIL, FLEX FINISH
FINISH: PLASTIC LAMINATE
NOTE:

CW2 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: 8839-58 ASHEN RIBBONWOOD, MATTE FINISH
FINISH: PLASTIC LAMINATE
NOTE:

CW3 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: M8549 MATTE BRONZE LABYRINTH
FINISH: PLASTIC LAMINATE
NOTE:

066116 - SOLID POLYMER FABRICATIONS

SS1 **MANUFACTURER:** DUPONT CORIAN
COLOR: ASH CONCRETE
NOTE: BREAKROOMS, RECEPTION AND RECORDS COUNTERTOP. PROVIDE 4" BACKSPLASH AT BREAKROOMS ONLY

SS2 **MANUFACTURER:** DUPONT CORIAN
COLOR: SILVER LINEAR
NOTE: BREAKROOMS, RECEPTION AND RECORDS COUNTERTOP. PROVIDE 4" BACKSPLASH AT BREAKROOMS ONLY

084113 STOREFRONT

SF1 **STOREFRONT**
MANUFACTURER: KAWNEER
MODEL: TRI-FAB VG 451
COLOR: BLACK NO. 29

08 15 13 LAMINATED FACED WOOD DOORS

LWD1 **DOORS**
MANUFACTURER: VT INDUSTRIES & WILSONART
MODEL: 1 1/2" SOLID CORE WITH HIGH PRESSURE LAMINATE FACES AND EDGES. PROVIDE 10" HIGH X 34" WIDE BRUSHED STAINLESS STEEL KICK PLATES AT ACESS SIDE OF DOOR.
COLOR: TO BE DETERMINED

08 11 17 PRE-FINISHED METAL FRAMES

SF1 **DOOR, SIDELITE AND WINDOW FRAMES**
MANUFACTURER: TIMELY
MODEL: STEEL, ADJUSTABLE THROAT
COLOR: BLACK SC103

08 00 00 GLAZING

SF1 **GLAZING**
MANUFACTURER: PPG
MODEL: EXTERIOR DOORS: U 0.5, SHGC 0.8
EXTERIOR WINDOWS: U 0.22, SHGC 0.29
COLOR: INTERIOR: CLEAR TEMP.
EXTERIOR: TO BE DETERMINED

092900 - GYPSUM BOARD

GB1 **TEXTURE:** LEVEL 4 "GYPSUM ASSOCIATION"/ ORANGE PEEL

095100 - ACOUSTICAL CEILINGS

ACT1 **ACOUSTICAL CEILING TILE**
MANUFACTURER: ARMSTRONG (or CHICAGO METALLIC)
TYPE: MESA SECOND LOOK
MODEL: 688
SIZE: 24"x48"x3/4"
COLOR: WHITE
GRID: PRELUDE XL 15/16"
COLOR: WHITE
NOTE: ALL ROOMS WITH EXCEPTION OF CAT ISOLATION CAT QUARANTINE & CAT ADOPTION TYPICAL, U.N.O.

ACT2 **ACOUSTICAL CEILING TILE**
MANUFACTURER: ARMSTRONG (oR CHICAGO METALLIC
TYPE: CLEAN ROOM FL
MODEL: 1716
SIZE: 24"x48"x3/4"
COLOR: WHITE
GRID: PRELUDE XL 15/16"
COLOR: WHITE
NOTE: ONLY IN CATS, CAT ISOLATION, CAT QUARANTINE & CAT ADOPTION

096513 - RESILIENT BASE

RB1 **RESILIENT BASE**
MANUFACTURER: JOHNSONITE
TYPE: MILLWORK
PROFILE: SILHOUETTE
COLOR: TO BE DETERMINED
HEIGHT: 4"
NOTE:

RB2 **RESILIENT BASE**
MANUFACTURER: JOHNSONITE
TYPE: MILLWORK
PROFILE: INFLECTION
COLOR: TO BE DETERMINED
HEIGHT: 4"
NOTE:

096518 - LINOLEUM

SYMBOL	DESCRIPTION
	LN1 a. **MANUFACUTER:** Forbo b. **STYLE:** Marmoleum Striato Textura c. **COLOR:** To be determined d. **SIZE:** 2.5mm gauge 79"Wx 105'L
	LN2 a. **MANUFACURER:** Forbo b. **STYLE:** Marmoleum Real c. **COLOR:** To be determined d. **SIZE:** 2.5mm gauge 79"Wx 105'L

099000 - INTERIOR PAINT

NOTE: CONFIRM WITH OWNER OTHER PAINTS AND LOCATIONS PRIOR TO INSTALLATION

P1 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P2 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P3 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P4 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED, EXTERIOR FILTER
COLOR: BLACK
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

EP1 **MANUFACTURER:** PPG
COLOR: TO BE DETERMINED
FINISH: EPOXY
NOTE: PUBLIC TOILET ROOM, JANITOR ROOM

102617 - MISCELLANEOUS SPECIALTIES

MS1 **WALK OFF MAT**
MANUFACTURER: TANDUS
COLOR: TO BE DETERMINED
NOTE: OWNER FURNISHED, OWNER INSTALLED, NIC

102617 - WALL PROTECTION

WG1 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: IMPACT RESISTANT PANELS
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
FIRE RATING: CLASS A
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG2 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG3 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG4 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

133419 - PRE-ENGINEERED METAL BUILDINGS

PB1 **WALL PANELS**
MANUFACTURER: DEFFERRED APPROVAL
COLOR: TO BE DETERMINED
FINISH: KYNAR 500 ON EXTERIOR, TO BE DETERMINED ON INTERIORS
FIRE RATING: Flame Spread Index less than 75 and Smoke - developed index of 450 (ASTM E84 or UI 723
GAUGE: 26 GA
NOTE: ALL WALLS UNLESS OTHERWISE NOTED SEE EXTERIOR ELEVATIONS

PB2 **WALL PANELS**
MANUFACTURER: DEFERRED APPROVAL
COLOR: TO BE DETERMINED
FINISH: KYNAR 500 ON EXTERIOR, INTERIOR TO BE DETERMINED
FIRE RATING: Flame Spread Index less than 75 and Smoke - developed index of 450 (ASTM E84 or UI 723
NOTE: WALLS WHERE NOTED ON EXTERIOR, SEE EXTERIOR ELEVATIONS

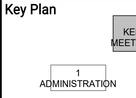
PB3 **ROOF PANELS**
MANUFACTURER: DEFERRED APPROVAL
COLOR: EXTERIOR - TO BE DETERMINED, INTERIOR - WHITE
FINISH: KYNAR 500 ON EXTERIOR, TO BE DETERMINED ON INTERIOR
FIRE CLASSIFICATION: CLASS A (ASTM E108 OR UL 790)
NOTE: GYP. CEILINGS AS NOTED

Legend

GENERAL NOTES

1. ALL INTERIOR FINISHES SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES.
2. REFER TO INTERIOR ELEVATIONS, CASEWORK AND FLOORING DETAILS IN COORINDATION WITH THIS PLAN.
3. REFER TO PROJECT SPECIFICATIONS AND MFG'S. PRODUCT SPECIFICATIONS FOR GENERAL PRODUCT INFORMATION. ALL INTERIOR FINISHES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER INSTALLATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SUBCONTRACTOR IS APPROVED AND QUALIFIED TO INSTALL FINISH MATERIALS & HAS EXPERIENCE WITH PROJECTS OF SIMILAR MAGNITUDE AND COMPLEXITY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LEAD TIMES AND AVAILABILITY OF ALL MATERIALS SUCH THAT MATERIALS ARE ON SITE WHEN READY FOR INSTALLATION. THE RE-SELECTION OF MATERIAL BECAUSE OF LONG LEAD TIME WILL NOT BE PERMITTED.
5. ALL LOUVERS, GRILLES, FIRE EXTINGUISHER CABINETS, REGISTERS, METAL PANELS, ETC., ON WALLS SHALL BE PAINTED TO MATCH SURFACE COLOR ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
6. ALL COLUMNS AND PARTITIONS SHALL RECEIVE SCHEDULED BASE FOR THE ROOM U.N.O.
7. THE BASE AT LOWER CABINETS TO MATCH THE WALL BASE OF THE ROOM IN WHICH THEY OCCUR U.N.O IN MILLWORK DETAILS.
8. FOR INSTALLATION OF RESILIENT SHEET FLOORING, USE MANUFACTURERS RECOMMENDED EPOXY ADHESIVE AROUND FLOOR DRAINS, UNDER SINKS, DRINKING FOUNTAINS, AT RAMP LOCATIONS AND AT AREAS WITH HEAVY ROLLING LOADS.
9. ALL TRANSITIONS BETWEEN FLOOR MATERIALS SHALL BE SMOOTH. MAXIMUM VERTICAL CHANGE IN FLOOR LEVEL SHALL BE ¼".
10. CONTRACTOR TO PROVIDE SEAMING DIAGRAM FOR APPROVAL PRIOR TO INSTALLATION OF ALL FLOORING MATERIALS.
11. ALL EXPOSED PIPES AND CONDUITS TO BE PAINTED TO MATCH ADJACENT WALL SURFACES.
12. CONTRACTOR SHALL VERIFY THAT ALL SURFACES DESIGNATED TO RECEIVE A FINISH SHALL MEET MANUFACTURERS SPECIFICATIONS TO RECEIVE SPECIFIED FINISH. CONTRACTOR SHALL NOTIFY ARCHITECT SHOULD SURFACES NOT MEET MANUFACTURER REQUIREMENTS.
13. ALL MILLWORK PL1 WITH SSF1 COUNTERTOPS, U.N.O.
14. "OR EQUAL" PRODUCTS MAY BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
15. ALL FINISHES SHALL HAVE A MINIMUM CLASS 'C' FLAME SPREAD AND SMOKE DEVELOPED CLASSIFICATION OF LESS THAN 450.
16. ALL GYPSUM BOARD SHALL BE TYPE X, FIRE RATED REGARDLESS OF CODE REQUIREMENTS.
17. ALL PAINT MATERIAL SHALL BE EPA APPROVED AS RECOMMENDED BY THE MANUFACTURER TO PROVIDEA SUITABLE AND DURABLE FINISH FOR ITS INTENDED APPLICATION.
18. PLYWOOD SHALL BE ATTACHED TO METAL STUDS WITH #6-20 ZINC PLATED X 1-1/4" I FLAT HEAD SCREWS AT EACH STUD AT 12" O.C VERTICAL STARTING 3" A.F.F. ALLOW 1/2" MINIMUM GAP BETWEEN PLYWOOD AND FINISH FLOOR.
19. PREPARE ALL FLOORS PRIOR TO INSTALL FLOOR COVERING
20. TEST ALL FLOORS TO RECIEVE FLOOR COVERING PER VAPOR ALKALINITY ASTM F 710 AND RELATIVE HUMIDITY TESTING ASTM F 2170. TEST ONLY AFTER SLABS HAVE CURED 28 DAYS.
21. PROVIDE ALLOWANCE IN BID FOR VAPOR ALKALINITY CONTROL SYSTEM FOR FLOORS RECIEVING FLOOR COVERINGS.

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
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Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

FINISH PLAN & FINISH SCHEDULE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

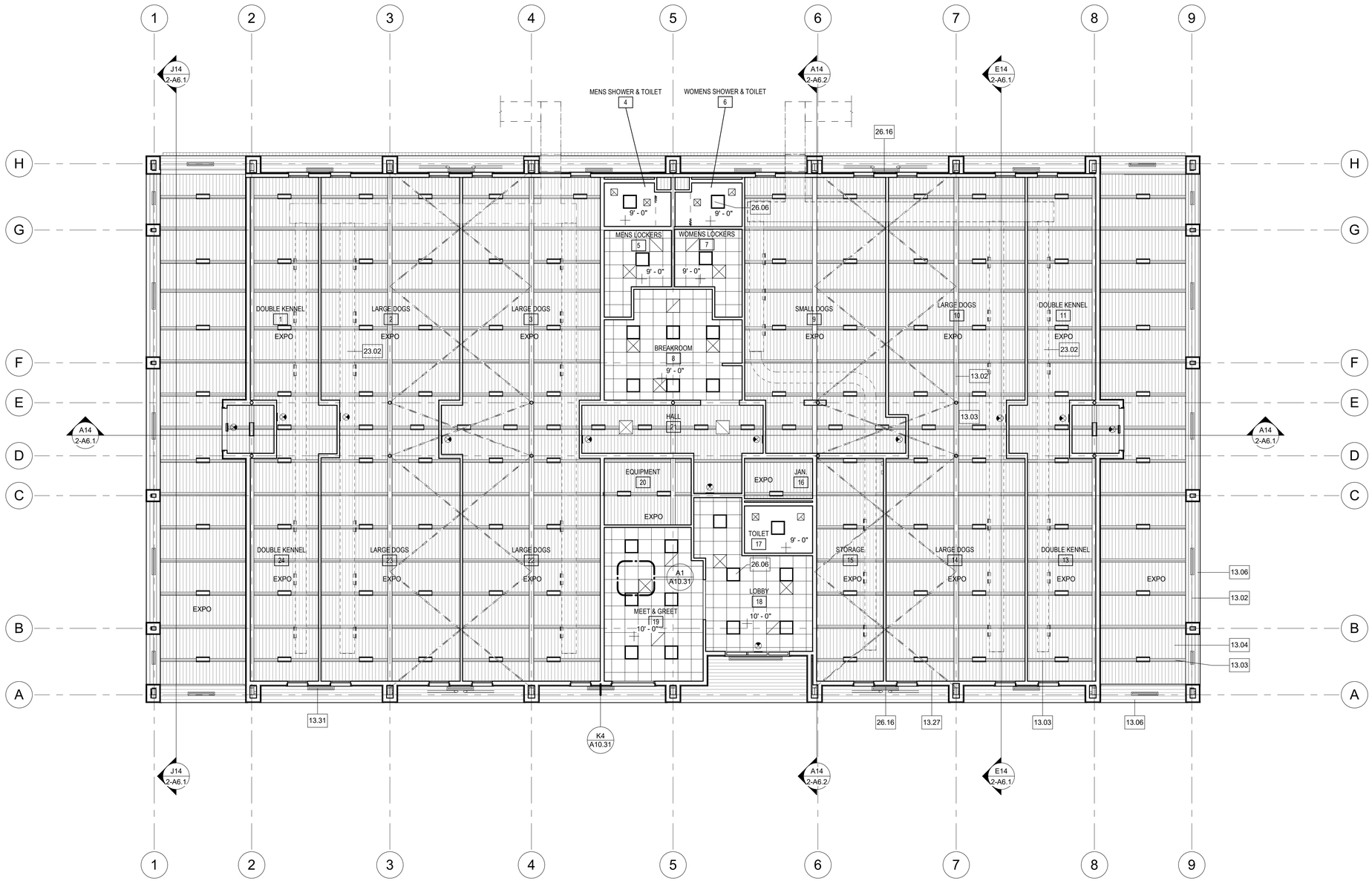
Sheet No:

2-A2.2

CONSTRUCTION DOCUMENTS

A12 FINISH PLAN AND FINISH SCHEDULE
1/8" = 1'-0"

Drawn by: Author Plotted on: 6/29/2020 12:39:04 PM



Legend

SUSPENDED T-BAR CEILING WITH 2'x2' OR 2'x4' CEILING TILES

SUSPENDED T-BAR CEILING ONLY, NO CEILING TILES

EXPO — GYPSUM BOARD CEILING & SUSPENDED GYP. BD. CEILING - SEE PLAN FOR TYPE-

NO CEILING - EXPOSED TO STRUCTURE ABOVE-

PRE-ENGINEERED BUILDINGS, ACCESSORIES, METAL PANEL AT DROPPED SOFFITS

ELECTRICAL, LIGHTING FIXTURES

MECHANICAL. REGISTERS

NOTES:

1. REFER TO SHEET G0.1 FOR SYMBOLS AND ABBREVIATIONS
2. REFER TO INTERIOR FINISH PLANS FOR MATERIALS TYPES AND COLORS

Keynotes

13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.06	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, SOFFIT
13.27	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, ROD BRACE
13.31	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, SOFFIT VENT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
26.06	ELECTRICAL, LIGHT, RECESSED
26.16	ELECTRICAL, LIGHT, WALL

Key Plan

2 KENNELS MEET & GREET

1 ADMINISTRATION

3 INTAKE

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

REFLECTED CEILING PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

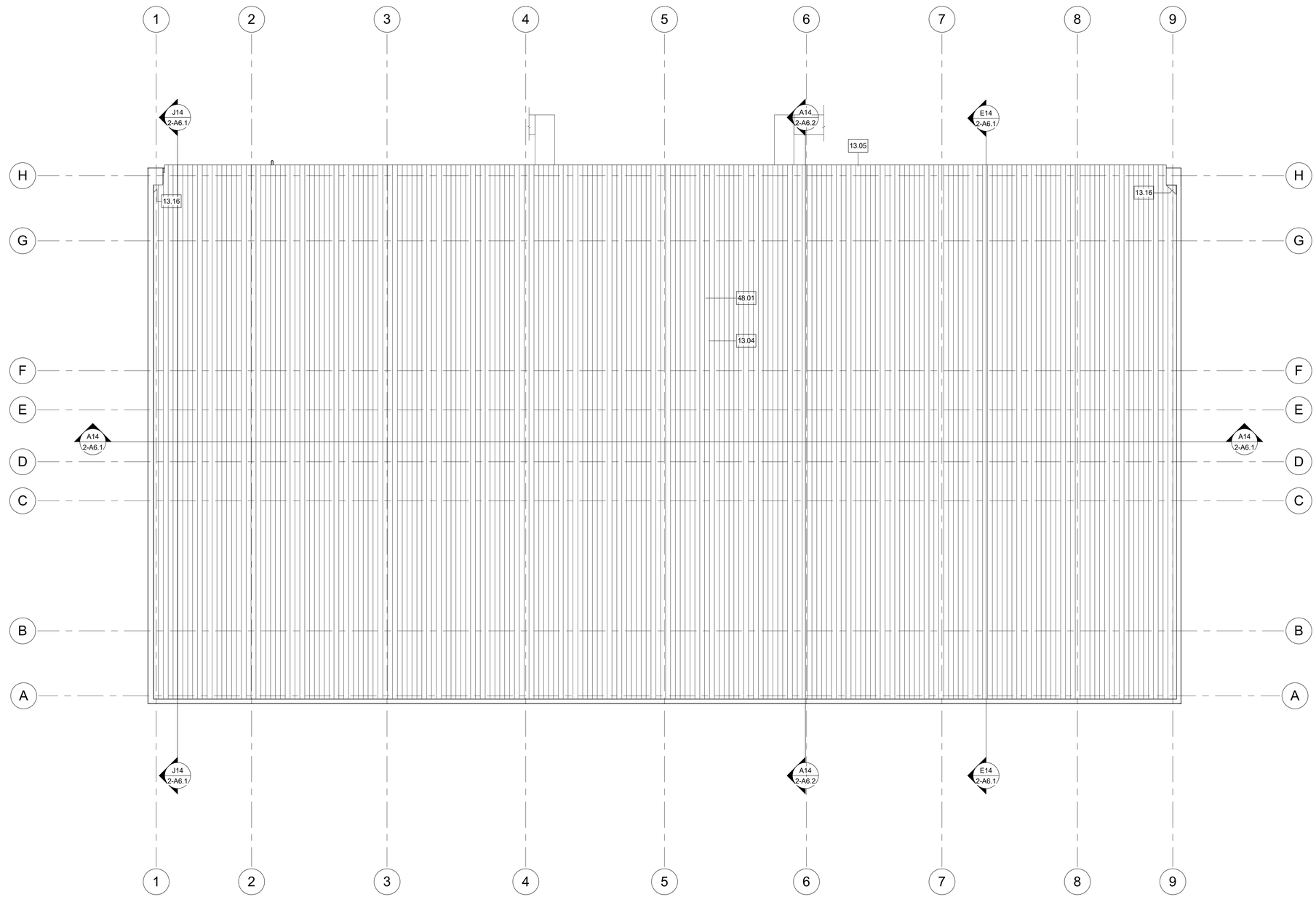
Sheet No:

2-A3.1

CONSTRUCTION DOCUMENTS

A14 REFLECTED CEILING PLAN
1/8" = 1'-0"

Drawn by: AH Plotted on: 6/29/2020 12:39:09 PM



A14 ROOF PLAN
1/8" = 1'-0"

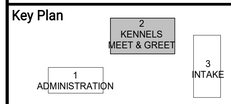
Legend

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Keynotes

13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.05	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, RAKE/EAVE EXTENSION CANOPIES
13.16	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CRICKET
48.01	SOLAR ENERGY, EQUIPMENT, FUTURE

Key Plan



LICENSED ARCHITECT
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REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

ROOF PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

2-A4.1

CONSTRUCTION DOCUMENTS

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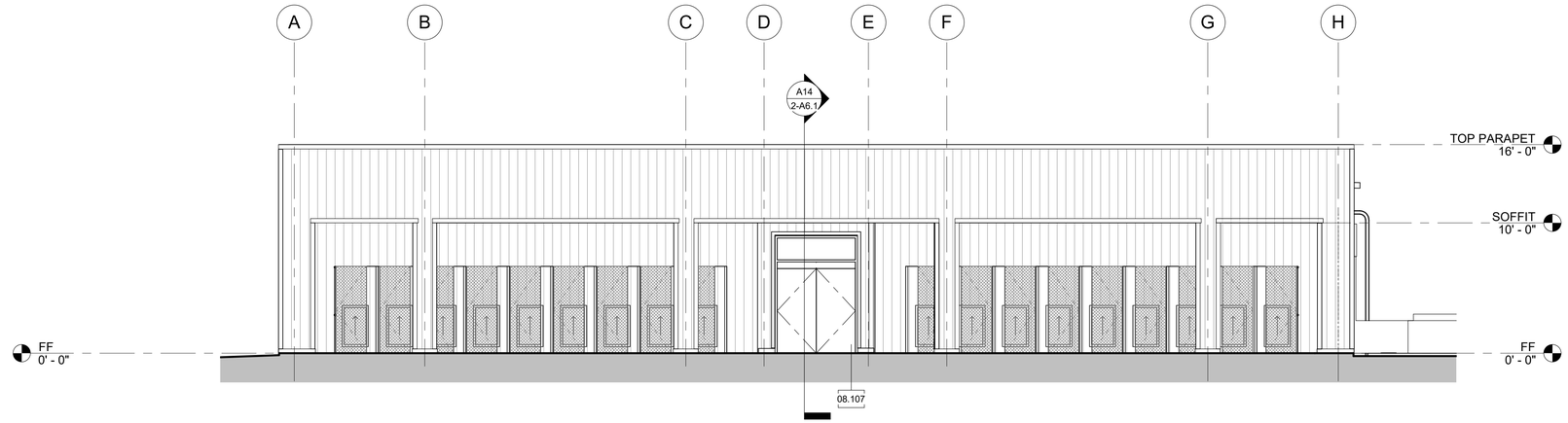
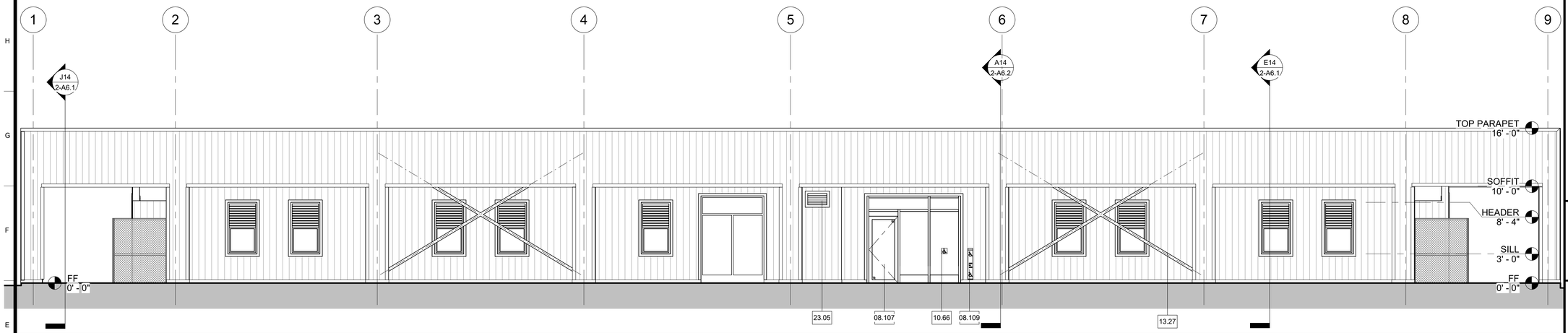
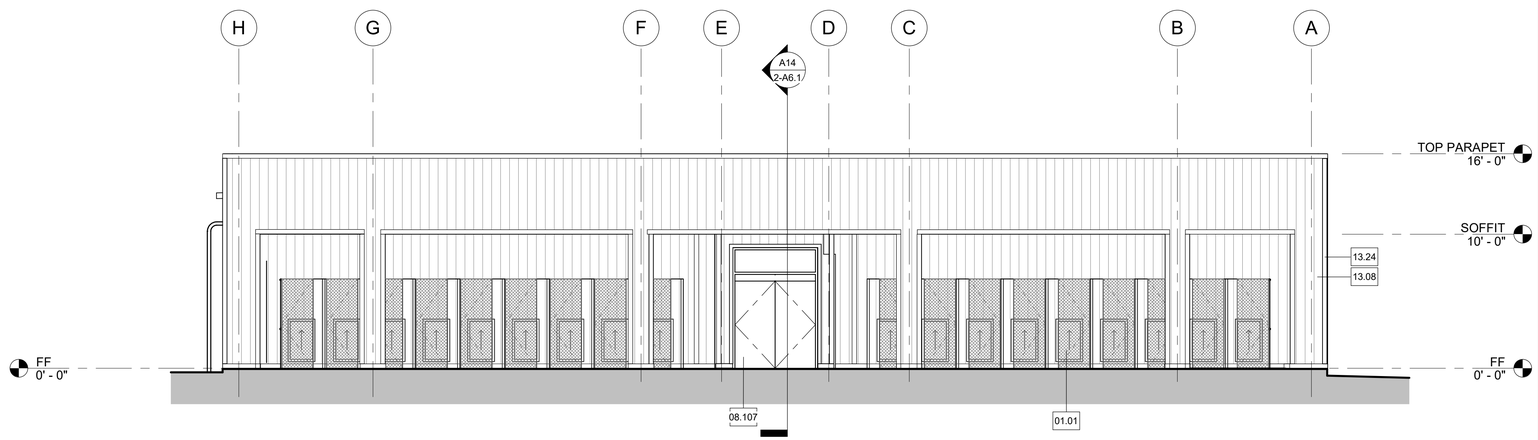


J15 NORTH
3/16" = 1'-0"



E15 EAST
3/16" = 1'-0"



A15 SOUTH
3/16" = 1'-0"

Legend

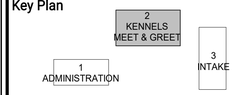
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   - WALLS: THERMAL BATT - R19
     RIGID OUTBOARD - R5
   - ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   - DOOR GLAZING: U - 0.5 , SHGC 0.8
   - WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
08.107	AUTOMATIC ENTRANCE DOORS, DOORS
08.109	AUTOMATIC ENTRANCE DOORS, DOOR OPERATOR
10.66	IDENTIFYING DEVICES, ACCESSIBILITY ENTRANCE
13.08	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL SYSTEM, INSULATED
13.24	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL, CLOSURE
13.27	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, ROD BRACE
23.05	MECHANICAL, DIFFUSER

Key Plan



LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
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California Licensed Architect No. C-27818
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

EXTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

2-A5.1

CONSTRUCTION DOCUMENTS

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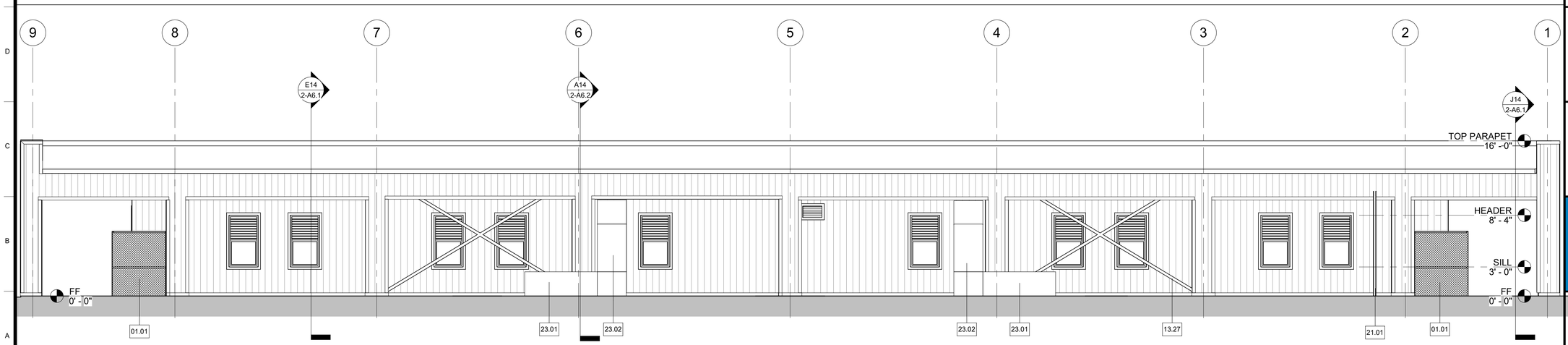


A15 WEST
3/16" = 1'-0"

Legend

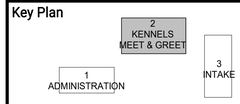
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   - WALLS: THERMAL BATT - R19
     RIGID OUTBOARD - R5
   - ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   - DOOR GLAZING: U - 0.5 , SHGC 0.8
   - WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
13.27	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, ROD BRACE
21.01	FIRE PROTECTION, RISER
23.01	MECHANICAL, UNIT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION

Key Plan



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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

EXTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

2-A5.2

CONSTRUCTION DOCUMENTS

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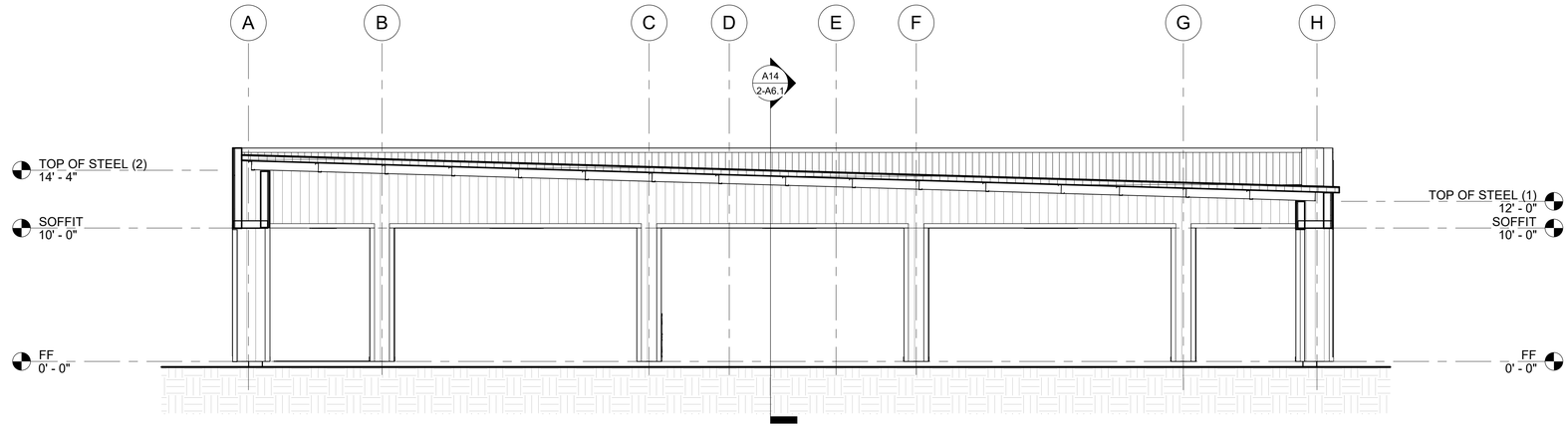
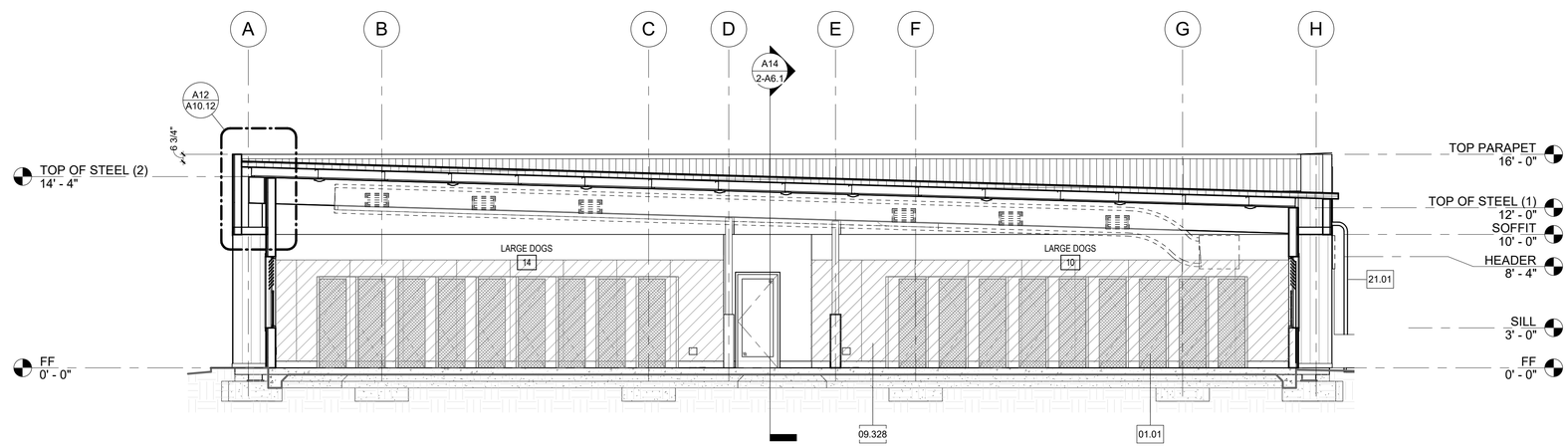
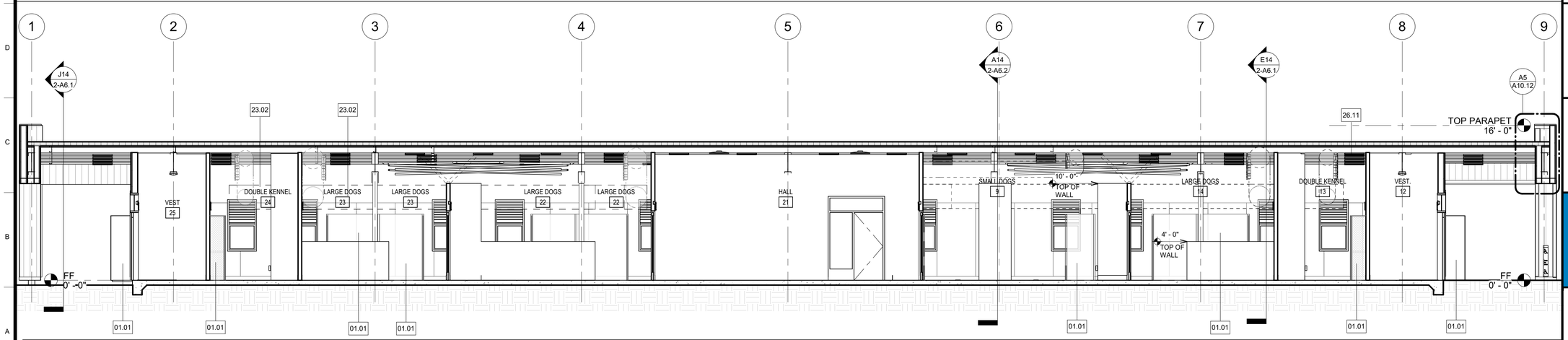


J14 BUILDING SECTION
3/16" = 1'-0"



E14 BUILDING SECTION
3/16" = 1'-0"



A14 BUILDING SECTION
3/16" = 1'-0"

Legend

NOTES

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2. BUILDING ENVELOPE:
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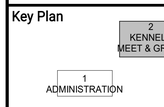
   - DOOR GLAZING: U - 0.5 , SHGC 0.8
   - WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
21.01	FIRE PROTECTION, RISER
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
26.11	ELECTRICAL, LIGHT, SURFACE

Key Plan



ARCHITECT:
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Ren: 10-31-21

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2220 Tulare Street, Eighth Floor
Fresno, California 93721

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

BUILDING SECTIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

2-A6.1

CONSTRUCTION DOCUMENTS

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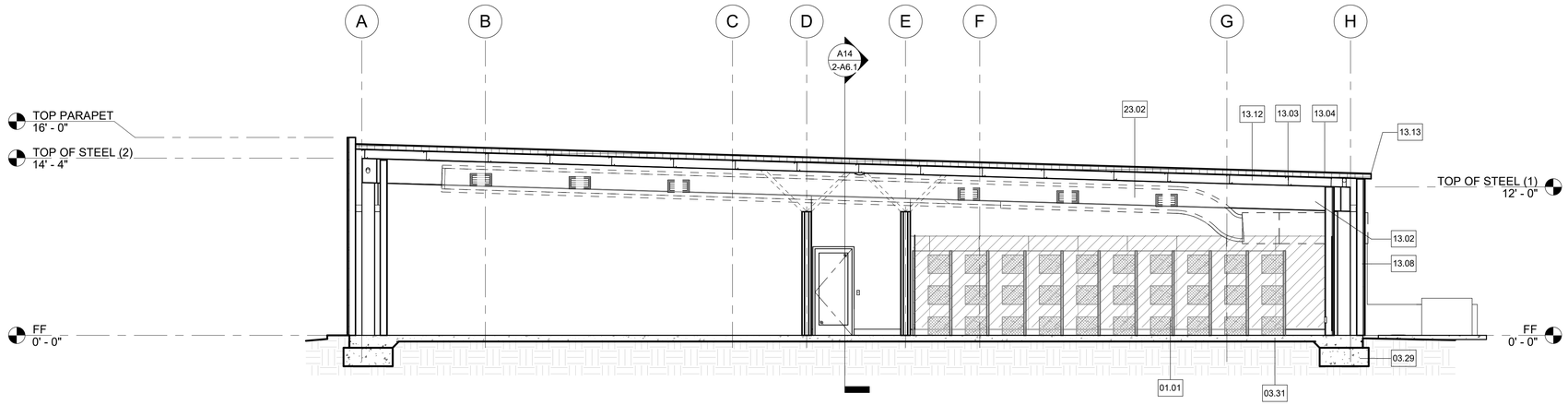

A14 BUILDING SECTION
3/16" = 1'-0"

Legend

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   - WALLS: THERMAL BATT - R19
     RIGID OUTBOARD - R5
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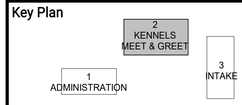
   - DOOR GLAZING: U - 0.5 , SHGC 0.8
   - WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
03.29	CAST-IN-PLACE CONCRETE, FOOTINGS
03.31	CAST-IN-PLACE CONCRETE, SLAB ON GRADE
13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.08	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL SYSTEM, INSULATED
13.12	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, BLOCKING
13.13	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CLOUSURE, ROOF
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

BUILDING SECTIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

2-A6.2

CONSTRUCTION DOCUMENTS

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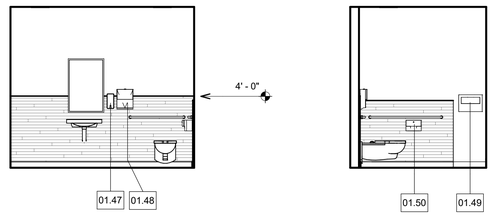
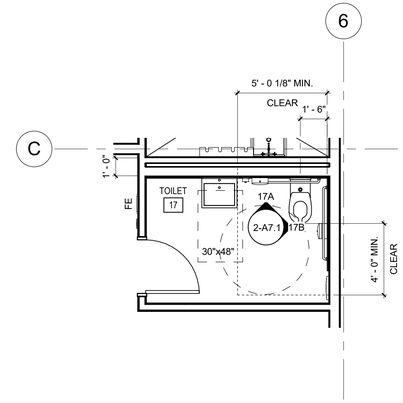


17A 17B

17 TOILET



ENLARGED FLOOR PLAN

G10 1/8" = 1'-0" **ENLARGED TOILET PLAN & INTERIORS**

Legend - Interior Elevations

SYMBOLS

- ELECTRICAL, DUPLEX OUTLET
- ELECTRICAL, FOURPLEX OUTLET
- ELECTRICAL, LIGHT SWITCH
- AV ELECTRICAL, FIRE ALARM DEVICE, STOBE AND AUDIO, SEE FIRE ALARM DRAWINGS
- V ELECTRICAL, FIRE ALARM DEVICE, STROBE, SEE FIRE ALARM DRAWINGS
- TELECOMMUNICATIONS, DATA OUTLET
- HARDWARE, ACTUATOR
- MECHANICAL, THERMOSTAT

NOTES

1. REFER TO SHEET G0.10 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. ALL DETAILS, MATERIAL AND FINISHES SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
3. REFER TO PLUMBING, TELECOMMUNICATION, SERVICE AND ELECTRICAL FOR ALL WALL MOUNTED DEVICES AND COORDINATE LOCATION AND HEIGHTS WITH ARCHITECTURAL (I.E. CASEWORK, EQUIPMENT, ETC.).
4. LOCATE AND MOUNT IDENTIFYING DEVICES PER SIGNAGE SCHEDULE.
5. LOCATE AND MOUNT TOILET ACCESSORIES AND PLUMB. FIXTURES PER DETAIL A12/A10.71 UNO.
6. PROVIDE BACKING AT TOILET ACCESSORIES AND IDENTIFYING DEVICES PER DETAILS A12/A10.71 UNO.
7. PROVIDE BACKING AT ALL MODULAR CASEWORK PER DETAIL A12/A10.13 OR D12/A10.13
8. SEE FINISH PLAN & FINISH SCHEDULE 3-A2.2 FOR INTERIOR COLOR SCHEDULE AND PATTERNS

Legend - Floor Plan

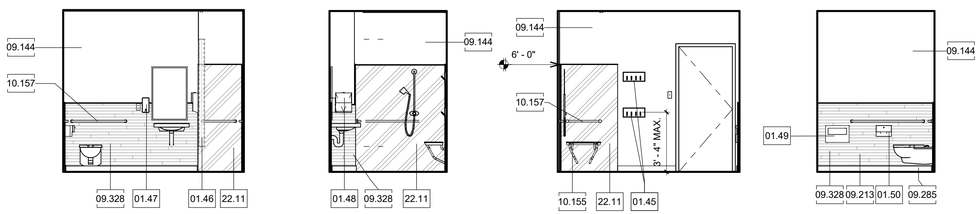
SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND DETAIL A1-A10.11
1A	WALL TYPES: ALL EXTERIOR WALLS TO BE 11C UNO. ALL INTERIOR WALLS TO BE 2A UNO.

NOTES

1. REFER TO G0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR CENTER LINE, UNLESS NOTED OTHERWISE.
3. ALL ELEVATION DIMENSIONS ARE ABOVE FINISH FLOOR AT EACH FLOOR LEVEL, UNLESS NOTED OTHERWISE.
4. DIMENSIONS NOTED AS "+/-" ARE NOMINAL.
5. FLOOR DRAINS (FD) AND FLOOR SINKS (FS) SHALL BE SET -3/4" AND A MIN. OF 3'-0" FROM NEAREST WALL, UNLESS NOTED OTHERWISE.
6. IDENTIFYING DEVICES, FOR ROOM SIGNAGE REFER TO A10.81 AND SPECIFICATIONS

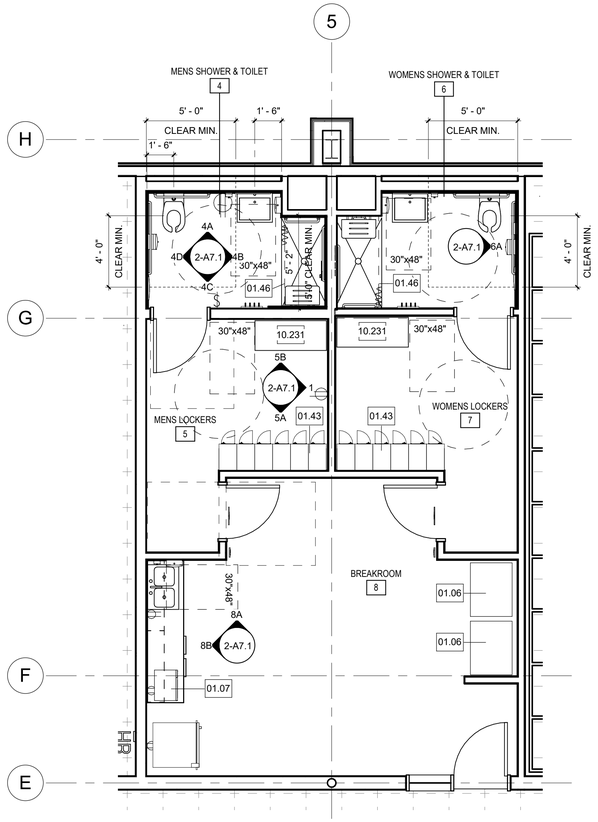
Keynotes

01.05	OWNER-FURNISHED ITEMS, REFRIGERATOR, NIC
01.06	OWNER-FURNISHED ITEMS, VENDING MACHINE, NIC
01.07	OWNER-FURNISHED ITEMS, MICROWAVE, NIC
01.19	OWNER-FURNISHED ITEMS, WASTE AND RECYCLE CONTAINERS
01.43	OWNER-FURNISHED ITEMS, LOCKERS, PROVIDE BACKING IN WALL, MIN 5% ADA
01.45	OWNER-FURNISHED ITEMS, COAT HOOK, PROVIDE BACKING IN WALL
01.46	OWNER-FURNISHED ITEMS, SHOWER CURTAIN, PROVIDE BACKING AT CEILING
01.47	OWNER-FURNISHED ITEMS, SOAP DISPESER
01.48	OWNER-FURNISHED ITEMS, PAPER TOWEL DISPENSER
01.49	OWNER-FURNISHED ITEMS, TOILET SEAT PAPER DISPENSER
01.50	OWNER-FURNISHED ITEMS, TOILET TISSUE DISPENSER
01.51	OWNER-FURNISHED ITEMS, SANITARY NAPKIN DISPENSER
06.78	CASEWORK, CABINET, FACE PANEL
09.138	GYPSUM BOARD, WALLBOARD, FIRE RATED
09.144	GYPSUM BOARD, WATER RESISTANT, FIRE RATED
09.213	TILE, CERAMIC
09.285	RESILIENT BASE AND ACCESSORIES
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
10.155	TOILET ACCCESSORIES, ACCESSIBLE SHOWER SEAT
10.157	TOILET ACCCESSORIES, GRAB BAR
10.231	TOILET ACCCESSORIES, ADA LOCKER BENCH, 48"W x 20"D x 17"-19" MAX H, AFFIX TO WALL OR FLOOR (250 POUNDS MIN. HORIZONTAL AND VERTICAL FORCE RESISTANCE)
22.11	PLUMBING, SHOWER INSERT



4A 4B 4C 4D

4 MENS SHOWER & TOILET
(6 WOMENS TOILET - OPPOSITE HAND)



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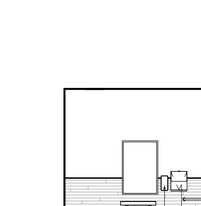
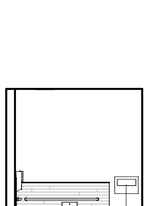


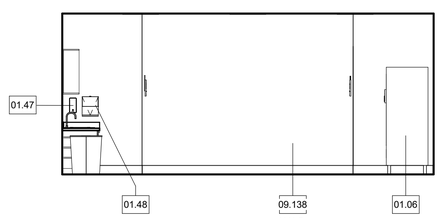
5B

5 MENS LOCKERS
(26 WOMENS LOCKERS - OPPOSITE HAND)

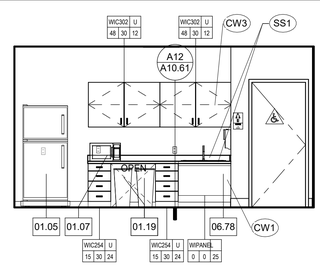


6A

6 WOMENS SHOWER & TOILET



8A



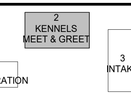
8B

8 BREAKROOM

ENLARGED FLOOR PLAN

A12 1/8" = 1'-0" **ENLARGED LOCKERS & SHOWER./TOILET PLANS & INTERIORS**

Key Plan



ARCHITECT:
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Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
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E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

INTERIOR ELEVATIONS & ENLARGED SHOWER / TOILET PLANS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

2-A7.1

CONSTRUCTION DOCUMENTS

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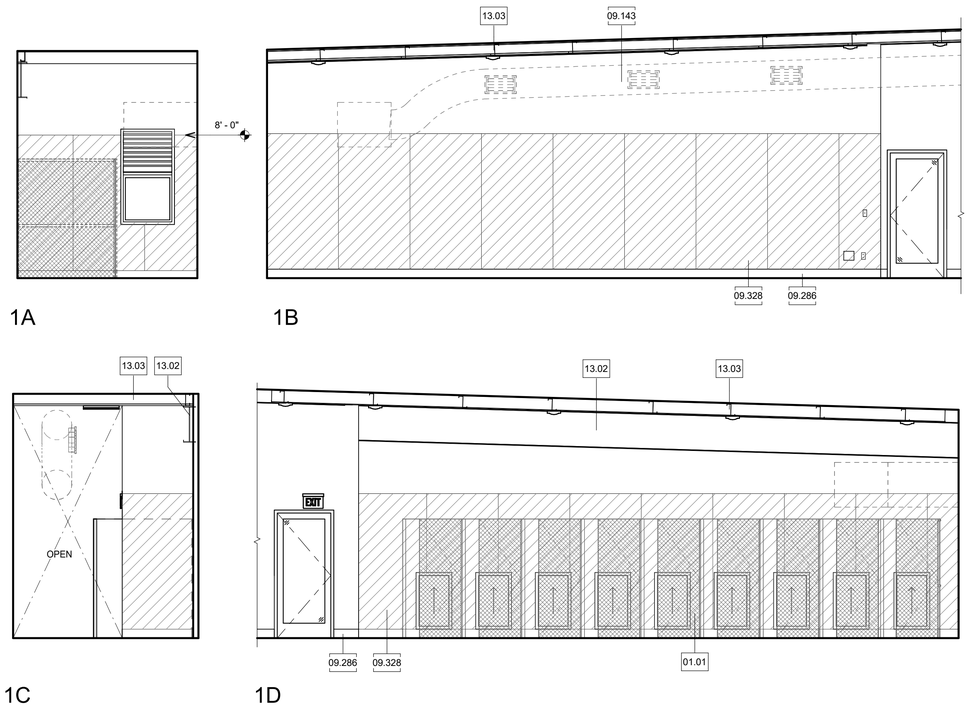
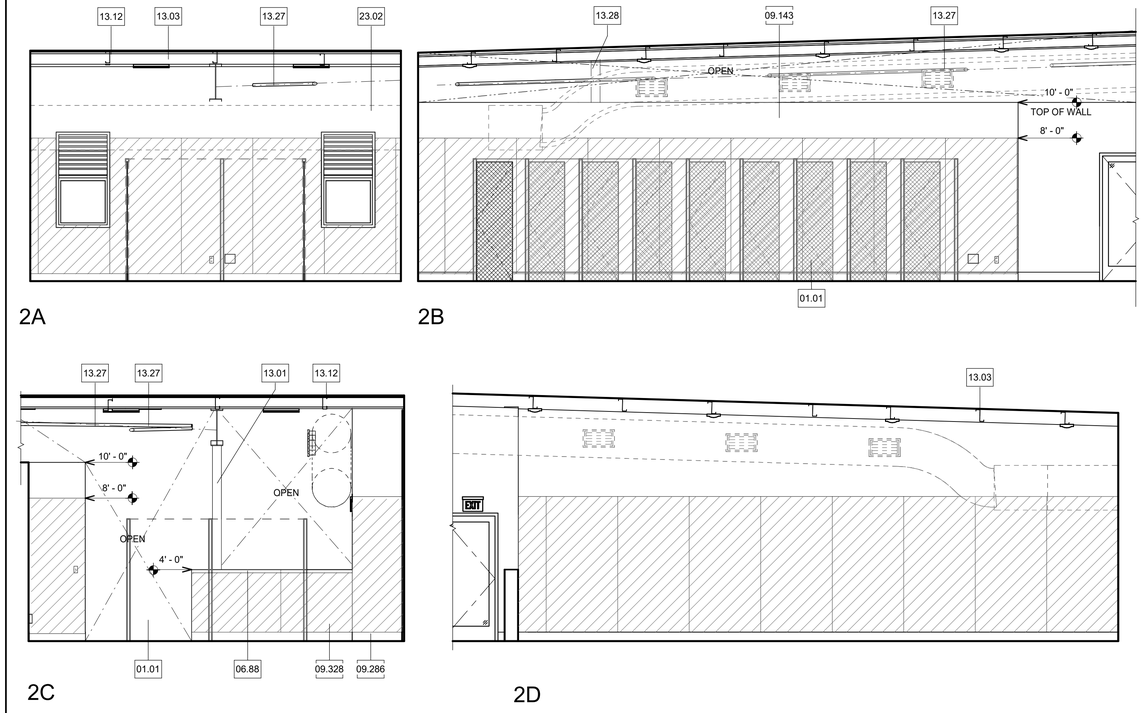
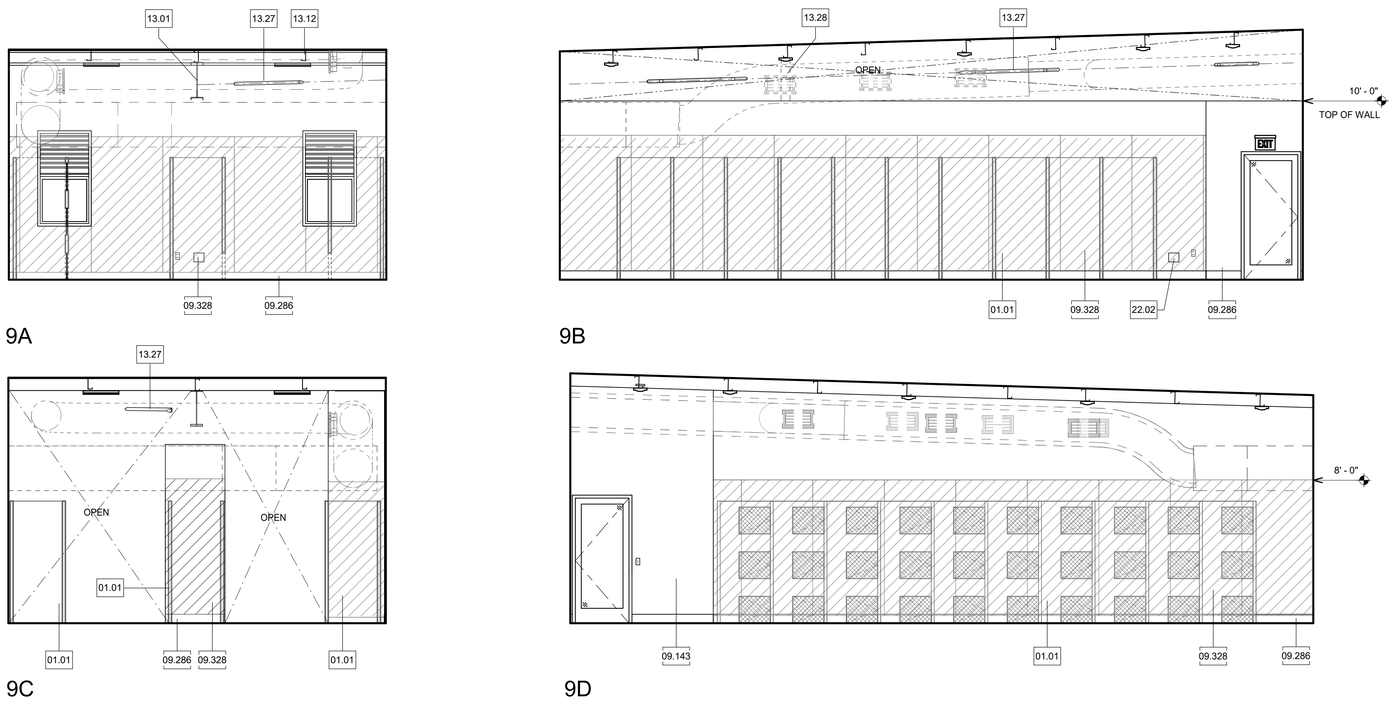


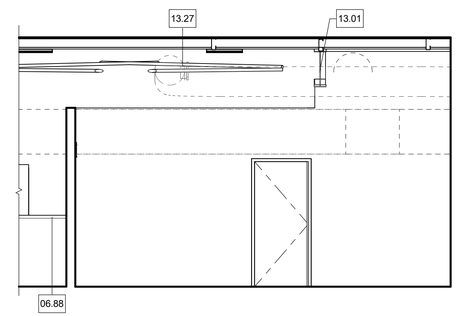
1 1/8" = 1'-0" **DOUBLE KENNEL**

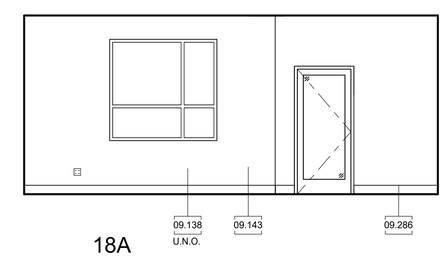


2 1/8" = 1'-0" **LARGE DOGS**



9 1/8" = 1'-0" **SMALL DOGS**





18 1/8" = 1'-0" **LOBBY**

Legend

SYMBOLS

- ELECTRICAL, DUPLEX OUTLET
- ELECTRICAL, FOURPLEX OUTLET
- ELECTRICAL, LIGHT SWITCH
- AV — ELECTRICAL, FIRE ALARM DEVICE, STOBE AND AUDIO, SEE FIRE ALARM DRAWINGS
- V — ELECTRICAL, FIRE ALARM DEVICE, STROBE, SEE FIRE ALARM DRAWINGS
- TELECOMMUNICATIONS, DATA OUTLET
- HARDWARE, ACTUATOR
- T — MECHANICAL, THERMOSTAT

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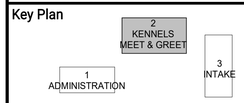
8. SEE FINISH PLAN & FINISH SCHEDULE 3-A2.2 FOR INTERIOR COLOR SCHEDULE AND PATTERNS

Keynotes

01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
06.88	CASEWORK, SOLID SURFACING
09.138	GYPSUM BOARD, WALLBOARD, FIRE RATED
09.143	GYPSUM BOARD, WATER RESISTANT, NON-FIRE RATED
09.286	RESILIENT BASE AND ACCESSORIES, RUBBER BASE
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.12	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, BLOCKING
13.27	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, ROD BRACE
13.28	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, WALL BRACE
22.02	PLUMBING, HOSE BIBB, HOT AND COLD WATER, TYP.
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION

Key Plan



LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

INTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

2-A8.1

CONSTRUCTION DOCUMENTS

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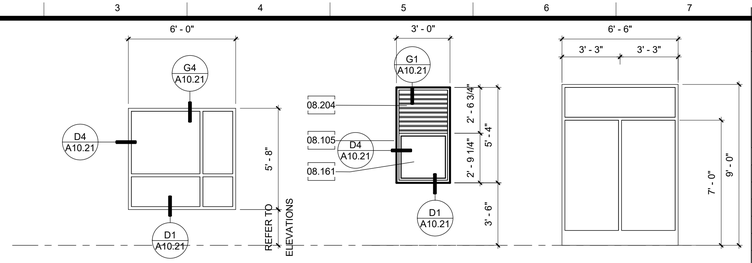
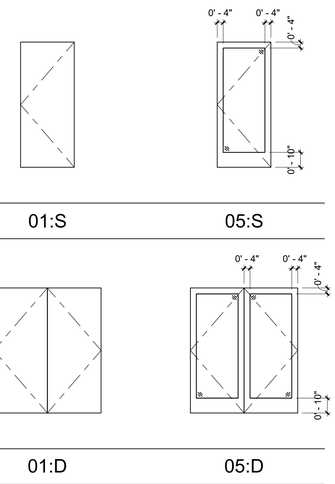
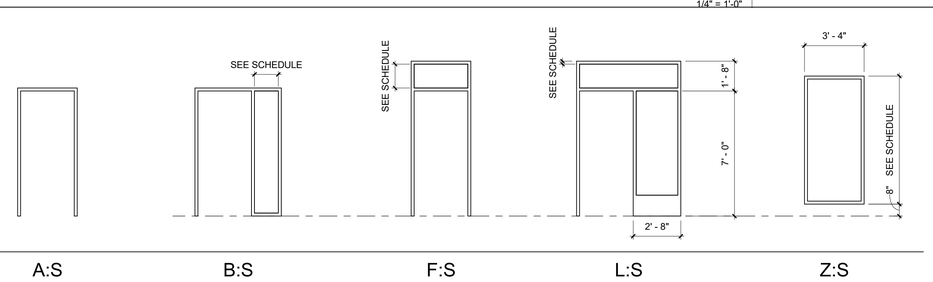
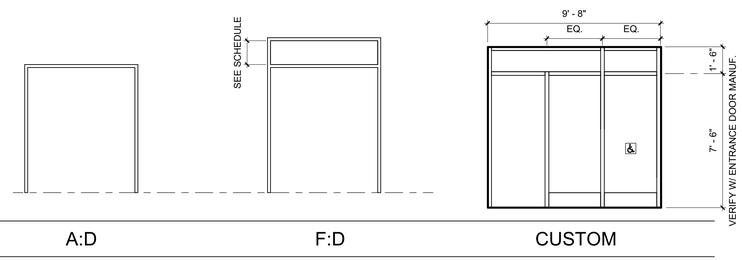


K5 WINDOW SCHEDULE
1/4" = 1'-0"



E5 DOOR PANEL TYPES
1/4" = 1'-0"





A6 DOOR FRAME TYPES
1/4" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE WIDTH # OF	DOOR SIZE WIDTH PANEL	DOOR SIZE HEIGHT	Fire Rating	Door MATERIAL	Door FINISH	Door PANEL TYPE	Door UNDERCUT	FRAME MATERIAL	FRAME FINISH	FRAME FRAME TYPE	HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.21 U.N.O.) HEAD	JAMB 1	JAMB 2	THRESH	Comments
1a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : D	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	REVERSE SWING
1b	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1c	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1d	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1e	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1f	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1g	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1h	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1i	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
1j	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
2a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	REVERSE SWING
3a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	REVERSE SWING
4a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
5a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
6a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
7a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
8a	1	3' - 0"	7' - 0"	NR	WD	PL	04 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	L4	
9a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	REVERSE SWING
10a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	REVERSE SWING
11a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	3	No	CT	K12	D12	D12	-	REVERSE SWING
11b	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11c	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11d	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11e	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11f	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11g	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11h	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11i	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
11j	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
12a	2	3' - 0"	7' - 0"	NR	AL	FF	01 : D	0' - 0"	AL	FF	F : D	1	No	IG	G4,A8-A10.22	A1-A10.22	A1-A10.22	A12	
12b	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
13a	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13b	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13c	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13d	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13e	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13f	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13g	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13h	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
13i	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
15a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
16a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
17a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	L4	
18a	1	3' - 0"	7' - 4 3/4"	NR	AL	FF	05 : S	0' - 0"	AL	FF	FRAME : CUSTOM	1	No	IG	G4,D8-A10.22	A1-A10.22	D4	A12	AUTOMATIC ENTRANCE DOORS
19a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
20a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
21a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	
24a	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24b	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24c	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24d	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24e	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24f	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24g	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24h	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
24i	1	1' - 8"	3' - 0"	NR	WD	PT	01 : S	0' - 0"	AL	FF	Z : S	-	No	-	H6-A10.23	D6-A10.23	D6-A10.23	A6-A10.23	RAISED EXTERIOR THRESHOLD
25a	2	3' - 0"	7' - 0"	NR	AL	FF	01 : D	0' - 0"	AL	FF	F : S	1	No	IG	G4,A8-A10.22	A1-A10.22	A1-A10.22	A12	
25b	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	A : S	2	No	CT	K12	D12	D12	-	

DOOR SCHEDULE LEGEND

AL	ALUMINUM
CT	CLEAR TEMPERED
D	DOUBLE LEAVES
FF	FACTORY FINISH
FG	FIRE RATED GLAZING
HM	HOLLOW METAL
IG	INSULATED GLAZING, U - 0.5, SHGC - 0.8
NR	NON RATED
PL	PLASTIC LAMINATE
PM	PRE-FINISHED METAL DOOR FRAMES WITH ADJUSTABLE THROAT
PT	PAINTED
STAIN	STAINED
WD	SOLID CORE WOOD
WV	WOOD VENEER
TG	TEMPERED GLASS
-	NOT APPLICABLE

NOTES

1. ALL EXITS DOOR TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
2. PROVIDE 18" STRIKE CLEARANCE FOR THE DOORS.
3. SPECIFY 18" STRIKE-SIDE X 60" DEEP CLEARANCE AT DOORS.
4. SPECIFY ALL DOORS ARE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE (i.e., LEVER) CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR.
5. SPECIFY MAXIMUM DOOR OPENING EFFORTS OF 5 LBS. AT EXTERIOR AND INTERIOR DOORS, AND 15 LBS. AT FIRE DOORS.
6. SPECIFY 10" KICK PLATE AT BOTTOM OF THERE ARE GLAZED DOORS (i.e. STOREFRONT-TYPE).
7. FOR DOOR HARDWARE- PERFORMACE SPECIFICATION FOR DOOR HARDWARE GROUPS, SEE DETAIL A4/A10.23
8. DOORS AT CROSS CORRIDOR/HALLWAY SHALL BE OPERABLE FROM BOTH SIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE.
9. FOR INFORMATION REGARDING CARD READER SEE OWNER A12/A10.22
10. FOR EXTERIOR FLASHING AT DOORS, REFER TO DETAIL A4/A10.81
11. FOR LOCATION OF DOOR OPERATOR PUSH PADDLE SEE DETAIL
12. THE CONTRACTOR WHALL SUBMIT A COMPLETE DOOR AND HARDWARE SCHEDULE TO BE INSTALLED ON THIS PROJECT FOR REVIEW, COMMENT AND APPROVAL.
13. VERIFY AND COORDINATE ALL ELECTRONIC ACESS DEVICES, KEY ACCESS REQUIREMENTS, HARDWARE SPECIFICATIONS, AND DOOR OPERATIONS WITH FRESNO COUNTY FACILITY SERVICES PRIOR TO ORDERING MATERIALS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO COUNT AND VERIFY NUMBER AND QUANTITY OF DOORS.
15. SEE SHEET 2-A2.2 FOR OTHER DOOR AND FRAME INFORMATION AND COLORS.

A14 DOOR SCHEDULE
NO SCALE

Legend

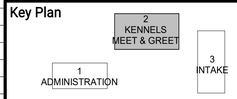
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   WALLS: THERMAL BATT - R19
   RIGID OUTBOARD - R5
   ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   DOOR GLAZING: U - 0.5 , SHGC 0.8
   WINDOW GALZING: U - 0.29 , SHGC - 0.22
3. GLAZING: INTERIOR TO BE CLEAR TEMPERED.

Keynotes

08.105 STOREFRONTS, FRAME
08.161 GLAZING, CLEAR
08.204 STOREFRONTS, LOUVER

Key Plan



ARCHITECT:
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Ren. 10-31-21

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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
Building Name: KENNELS / MEET & GREET
Building No.: 2

DOOR SCHEDULE & WINDOW SCHEDULES

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:
2-A9.1

CONSTRUCTION DOCUMENTS

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Signage Schedule

Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Sign Copy Line 4	Sign Copy Line 5	Sign Copy Line 6	Sign Copy Line 7	Sign Copy Line 8	Mtg Height	Mtg Cond	Mtg Loc	Remarks
5aA	R3	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	1	SR-1	-
5aB	R4	IP	-	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
7aA	R5	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	1	SR-1	-
7aA	2a	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	1	SR-1	-
7aB	R6	IP	-	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
7aB	2d	IP	-	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
18aB	EN1	--	-	-	-	-	-	-	-	-	3' - 4"	4	-	-

MOUNTING CONDITION

1. METAL STUD FRAMED WALL
2. NOT USED
3. NOT USED
4. GLASS
5. DOOR
6. SEE PLAN

SIGN MATERIAL:

EP = EXTERIOR PLASTIC.
IP = INTERIOR PLASTIC.
D = DECAL.

ABBREVIATIONS:
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED

GENERAL NOTE:
1. PROVIDE BACKSIDE BLACKOUT MATERIAL FOR SIGN WHEN MOUNTING TO GLAZING.

MOUNTING HEIGHT:
A12-A10.81

MOUNTING LOCATION:

STRIKE SIDE ADJACENT (S-1).
STRIKE SIDE ADJACENT REVERSE SWING (SR-1).

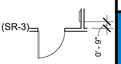
STRIKE SIDE AWAY (S-2).
SRIKE SIDE AWAY REVERSE SWING (SR-2).

HINGE SIDE ADJACENT (H-1).
HINGE SIDE ADJACENT REVERSE SWING (HR-1).

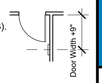
DOOR MOUNTED (D-1).
DOOR MOUNTED REVERSE SWING (DR-1)

SLIDING DOOR MOUNT (SD-1

STRIKE SIDE ADJACENT WALL REVERSE SWING (SR-3)
STRIKE SIDE ADJACENT WALL (S-3)

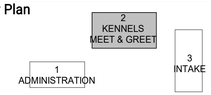


HINGE SIDE ADJACENT WALL (H-3).
HINGE SIDE ADJACENT WALL REVERSE SWING (HR-3).



A14 1/8" = 1'-0" | **SIGNAGE SCHEDULE**

Key Plan



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Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

SIGNAGE SCHEDULE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

2-A9.2

CONSTRUCTION DOCUMENTS

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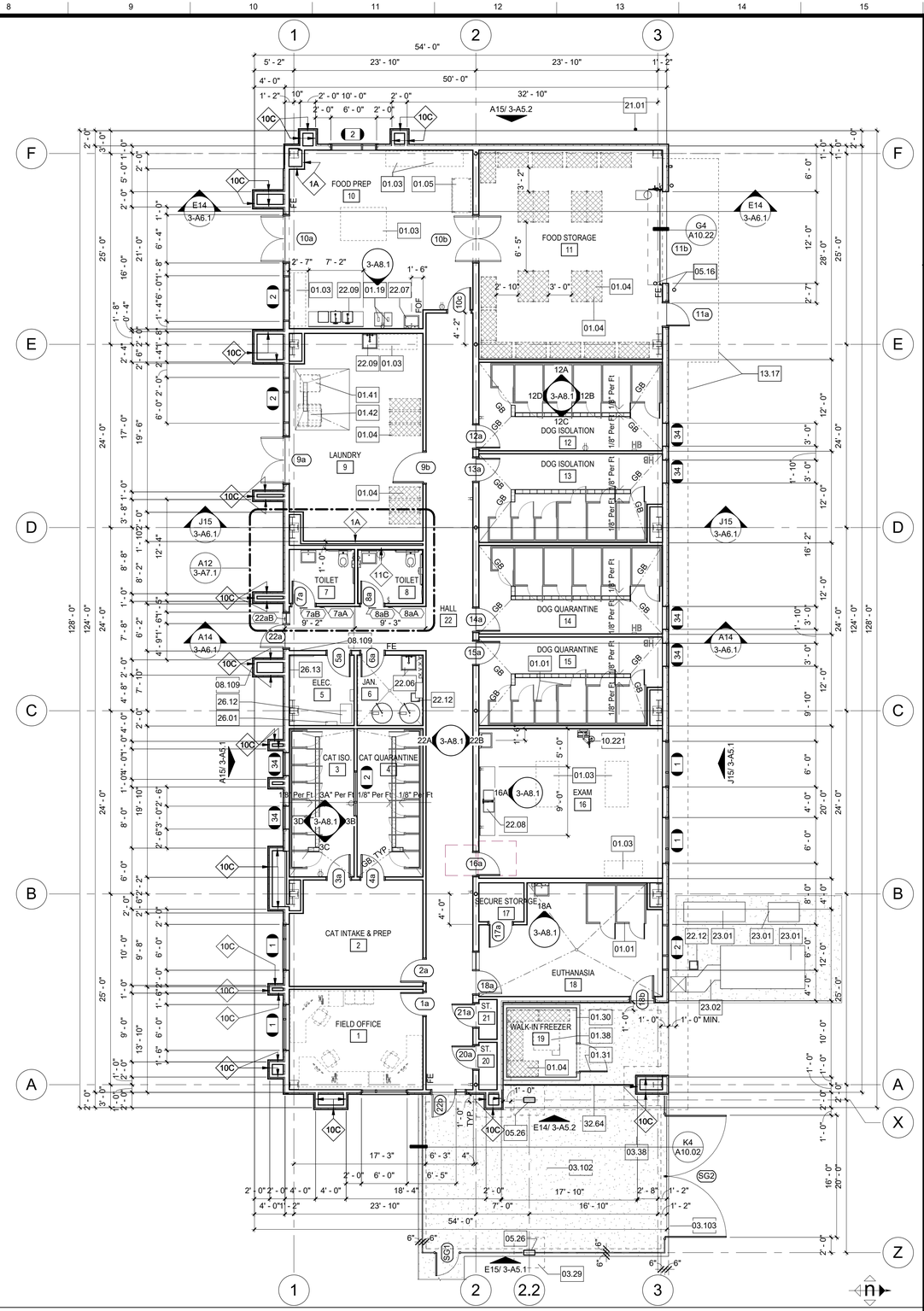


A14 FLOOR PLAN
1/8" = 1'-0"

Legend

SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND DETAIL A1-A10.11
1A	WALL TYPE: ALL EXTERIOR WALLS TO BE 11C UNO. ALL INTERIOR WALLS TO BE 2A UNO.

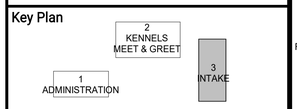
NOTES

1. REFER TO G0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR CENTER LINE, UNLESS NOTED OTHERWISE.
3. ALL ELEVATION DIMENSIONS ARE ABOVE FINISH FLOOR AT EACH FLOOR LEVEL, UNLESS NOTED OTHERWISE.
4. DIMENSIONS NOTED AS "+/-" ARE NOMINAL.
5. FLOOR DRAINS (FD) AND FLOOR SINKS (FS) SHALL BE SET -3/4" AND A MIN. OF 3'-0" FROM NEAREST WALL, UNLESS NOTED OTHERWISE.
6. IDENTIFYING DEVICES, FOR ROOM SIGNAGE REFER TO A10.81 AND SPECIFICATIONS.

Keynote

NO.	DESCRIPTION
01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
01.03	OWNER-FURNISHED ITEMS, TABLES, WORK, NIC
01.04	OWNER-FURNISHED ITEMS, SHELVING, METAL WIRE, NIC
01.05	OWNER-FURNISHED ITEMS, REFRIGERATOR, NIC
01.19	OWNER-FURNISHED ITEMS, WASTE AND RECYCLE CONTAINERS
01.30	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, WALL, NIC
01.31	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, DOOR, NIC
01.38	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, CONDENSER, NIC
01.41	OWNER-FURNISHED ITEMS, DRYER
01.42	OWNER-FURNISHED ITEMS, WASHER
03.29	CAST-IN-PLACE CONCRETE, FOOTINGS
03.38	CAST-IN-PLACE CONCRETE, HOUSEKEEPING PAD
03.102	CAST-IN-PLACE CONCRETE, WALKS, 4" TH. S/ #3 REBAR AT 12" O.C. EACH WAY
03.103	CAST-IN-PLACE CONCRETE, WALKS, EDGE OF WALK/ASHPHALT PAVING
05.16	METAL BOLLARDS, FIXED BOLLARD
05.26	STRUCTURAL STEEL FRAMING, STEEL, COLUMN
08.109	AUTOMATIC ENTRANCE DOORS, DOOR OPERATOR
10.221	MISCELLANEOUS SPECICALTIES, COMPUTER WALL BRACKET
13.17	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, LINE OF SOFFIT OR ROOF ABOVE
21.01	FIRE PROTECTION, RISER
22.06	PLUMBING, MOP SINK
22.07	PLUMBING, HANDWASH SINK
22.08	PLUMBING, 2 COMPARTMENT SINK
22.09	PLUMBING, 3 COMPARTMENT SINK
22.12	PLUMBING, FLOOR SINK
23.01	MECHANICAL, UNIT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
26.01	ELECTRICAL, PANEL
26.12	ELECTRICAL, TRANSFORMER
26.13	ELECTRICAL, BACKBOARD
32.64	CHAIN LINK, FENCE

Key Plan



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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

FLOOR PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

3-A2.1

CONSTRUCTION DOCUMENTS

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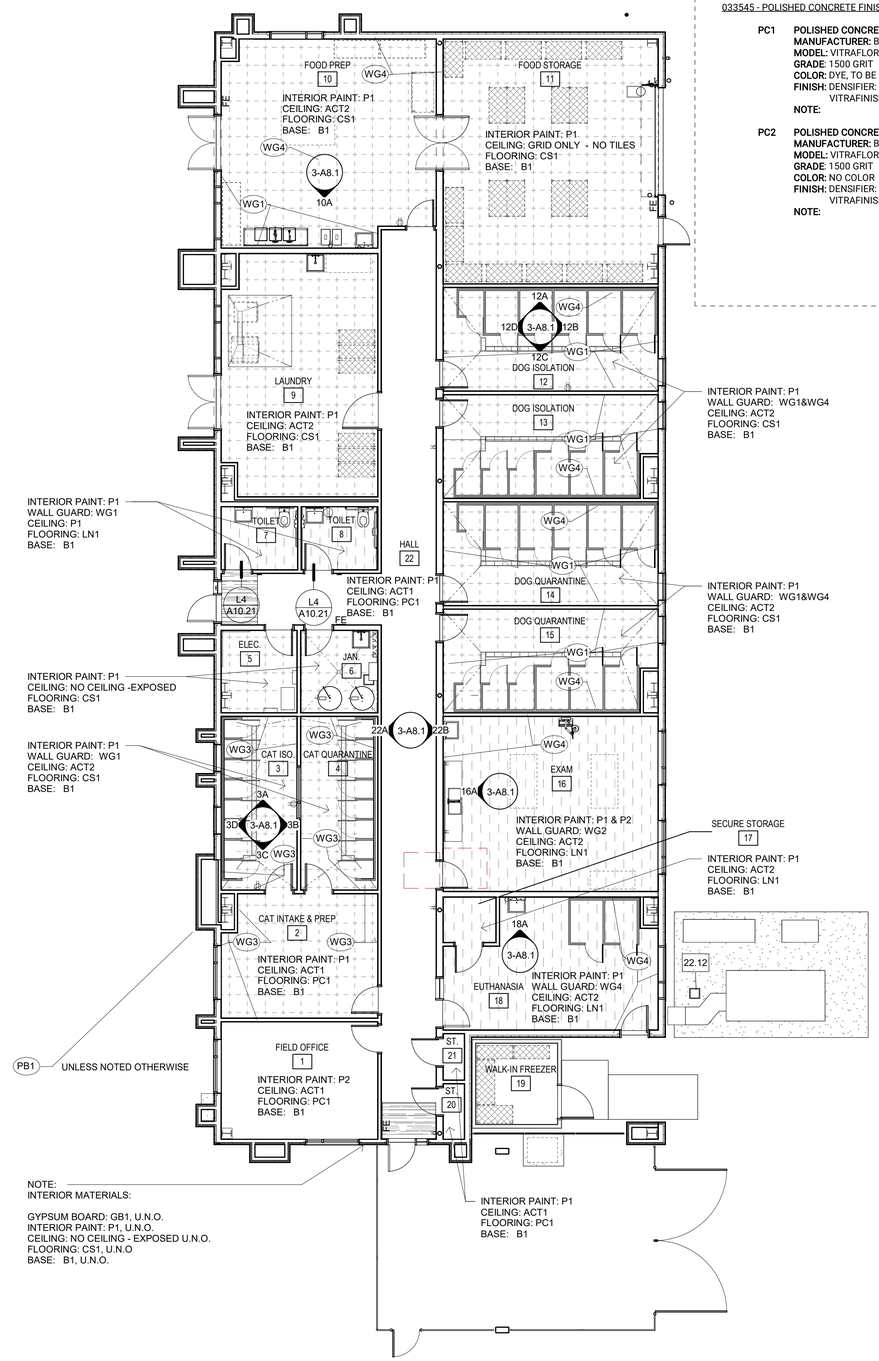


Finish Schedule

033535 - CONCRETE SEALER

CS1 **CONCRETE SEALER**
MANUFACTURER: GHOST SHIELD
MODEL: SILOXA-TEK 8510
GRADE: INDUSTRIAL
COLOR: NO COLOR
NOTE:

033545 - POLISHED CONCRETE FINISHING

PC1 **POLISHED CONCRETE FINISH**
MANUFACTURER: BOMANITE
MODEL: VITRAFLOR
GRADE: 1500 GRIT
COLOR: DYE, TO BE DETERMINED
FINISH: DENSIFIER: BOMANITE SABILIZER PRO, FINISH: VITRAFINISH
NOTE:

PC2 **POLISHED CONCRETE FINISH**
MANUFACTURER: BOMANITE
MODEL: VITRAFLOR
GRADE: 1500 GRIT
COLOR: NO COLOR
FINISH: DENSIFIER: BOMANITE SABILIZER PRO, FINISH: VITRAFINISH
NOTE:

064116 - CASEWORK

CW1 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: 2297-PX TERRIL, FLEX FINISH
FINISH: PLASTIC LAMINATE
NOTE:

CW2 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: 8839-58 ASHEN RIBBONWOOD, MATTE FINISH
FINISH: PLASTIC LAMINATE
NOTE:

CW3 **CASEWORK**
MANUFACTURER: FORMICA
GRADE: WIC CUSTOM
COLOR: M8549 MATTE BRONZE LABYRINTH
FINISH: PLASTIC LAMINATE
NOTE:

066116 - SOLID POLYMER FABRICATIONS

SS1 **MANUFACTURER:** DUPONT CORIAN
COLOR: ASH CONCRETE
NOTE: BREAKROOMS, RECEPTION AND RECORDS COUNTERTOP. PROVIDE 4" BACKSPLASH AT BREAKROOMS ONLY

SS2 **MANUFACTURER:** DUPONT CORIAN
COLOR: SILVER LINEAR
NOTE: BREAKROOMS, RECEPTION AND RECORDS COUNTERTOP. PROVIDE 4" BACKSPLASH AT BREAKROOMS ONLY

084113 STOREFRONT

SF1 **STOREFRONT**
MANUFACTURER: KAWNEER
MODEL: TRI-FAB VG 451
COLOR: BLACK NO. 29

08 15 13 LAMINATED FACED WOOD DOORS

LWD1 **DOORS**
MANUFACTURER: VT INDUSTRIES & WILSONART
MODEL: 1 1/2" SOLID CORE WITH HIGH PRESSURE LAMINATE FACES AND EDGES. PROVIDE 10" HIGH X 34" WIDE BRUSHED STAINLESS STEEL KICK PLATES AT ACESS SIDE OF DOOR.
COLOR: TO BE DETERMINED

08 11 17 PRE-FINISHED METAL FRAMES

SF1 **DOOR, SIDELITE AND WINDOW FRAMES**
MANUFACTURER: TIMELY
MODEL: STEEL, ADJUSTABLE THROAT
COLOR: BLACK SC103

08 00 00 GLAZING

SF1 **GLAZING**
MANUFACTURER: PPG
MODEL: EXTERIOR DOORS: U 0.5, SHGC 0.8
EXTERIOR WINDOWS: U 0.22, SHGC 0.29
COLOR: INTERIOR: CLEAR TEMP.
EXTERIOR: TO BE DETERMINED

092900 - GYPSUM BOARD

GB1 **TEXTURE:** LEVEL 4 "GYPSUM ASSOCIATION"/ ORANGE PEEL

095100 - ACOUSTICAL CEILINGS

ACT1 **ACOUSTICAL CEILING TILE**
MANUFACTURER: ARMSTRONG (or CHICAGO METALLIC)
TYPE: MESA SECOND LOOK
MODEL: 688
SIZE: 24"x48"x3/4"
COLOR: WHITE
GRID: PRELUDE XL 15/16"
COLOR: WHITE
NOTE: ALL ROOMS WITH EXCEPTION OF CAT ISOLATION CAT QUARANTINE & CAT ADOPTION TYPICAL, U.N.O.

ACT2 **ACOUSTICAL CEILING TILE**
MANUFACTURER: ARMSTRONG (oR CHICAGO METALLIC
TYPE: CLEAN ROOM FL
MODEL: 1716
SIZE: 24"x48"x3/4"
COLOR: WHITE
GRID: PRELUDE XL 15/16"
COLOR: WHITE
NOTE: ONLY IN CATS, CAT ISOLATION, CAT QUARANTINE & CAT ADOPTION

096513 - RESILIENT BASE

RB1 **RESILIENT BASE**
MANUFACTURER: JOHNSONITE
TYPE: MILLWORK
PROFILE: SILHOUETTE
COLOR: TO BE DETERMINED
HEIGHT: 4"
NOTE:

RB2 **RESILIENT BASE**
MANUFACTURER: JOHNSONITE
TYPE: MILLWORK
PROFILE: INFLECTION
COLOR: TO BE DETERMINED
HEIGHT: 4"
NOTE:

096518 - LINOLEUM

SYMBOL	DESCRIPTION
	LN1 a. **MANUFACUTER:** Forbo b. **STYLE:** Marmoleum Striato Textura c. **COLOR:** To be determined d. **SIZE:** 2.5mm gauge 79"Wx 105'L
	LN2 a. **MANUFACURER:** Forbo b. **STYLE:** Marmoleum Real c. **COLOR:** To be determined d. **SIZE:** 2.5mm gauge 79"Wx 105'L

099000 - INTERIOR PAINT

NOTE: CONFIRM WITH OWNER OTHER PAINTS AND LOCATIONS PRIOR TO INSTALLATION

P1 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P2 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P3 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED
COLOR: TO BE DETERMINED
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

P4 **MANUFACTURER:** TO BE DETERMINED
PRODUCT: TO BE DETERMINED, EXTERIOR FILTER
COLOR: BLACK
FINISH: EGGSHELL
NOTE: USE MFG RECOMMENDED PRIMER, LATEX BASED

EP1 **MANUFACTURER:** PPG
COLOR: TO BE DETERMINED
FINISH: EPOXY
NOTE: PUBLIC TOILET ROOM, JANITOR ROOM

102617 - MISCELLANEOUS SPECIALTIES

MS1 **WALK OFF MAT**
MANUFACTURER: TANDUS
COLOR: TO BE DETERMINED
NOTE: OWNER FURNISHED, OWNER INSTALLED, NIC

102617 - WALL PROTECTION

WG1 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: IMPACT RESISTANT PANELS
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
FIRE RATING: CLASS A
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG2 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG3 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

WG4 **WALL GUARD**
MANUFACTURER: FORMICA
SERIES: HARDSTOP
FINISH: TO BE DETERMINED
COLOR: TO BE DETERMINED
HEIGHT: 8'-0" OR AS INDICATED ON DRAWINGS
SEAMS: BUTT JOINT SEAMS WITH WATER PROOF CAULK
NOTE: PROVIDE TRIM PIECES WHERE INDICATED ON DRAWINGS

133419 - PRE-ENGINEERED METAL BUILDINGS

PB1 **WALL PANELS**
MANUFACTURER: DEFFERRED APPROVAL
COLOR: TO BE DETERMINED
FINISH: KYNAR 500 ON EXTERIOR, TO BE DETERMINED ON INTERIORS
FIRE RATING: Flame Spread Index less than 75 and Smoke - developed index of 450 (ASTM E84 or UI 723
GAUGE: 26 GA
NOTE: ALL WALLS UNLESS OTHERWISE NOTED SEE EXTERIOR ELEVATIONS

PB2 **WALL PANELS**
MANUFACTURER: DEFERRED APPROVAL
COLOR: TO BE DETERMINED
FINISH: KYNAR 500 ON EXTERIOR, INTERIOR TO BE DETERMINED
FIRE RATING: Flame Spread Index less than 75 and Smoke - developed index of 450 (ASTM E84 or UI 723
NOTE: WALLS WHERE NOTED ON EXTERIOR, SEE EXTERIOR ELEVATIONS

PB3 **ROOF PANELS**
MANUFACTURER: DEFERRED APPROVAL
COLOR: EXTERIOR - TO BE DETERMINED, INTERIOR - WHITE
FINISH: KYNAR 500 ON EXTERIOR, TO BE DETERMINED ON INTERIOR
FIRE CLASSIFICATION: CLASS A (ASTM E108 OR UL 790)
NOTE: GYP. CEILINGS AS NOTED

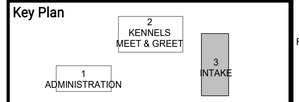
A12 FINISH PLAN & FINISH SCHEDULE
1/8" = 1'-0"

Legend

GENERAL NOTES

1. ALL INTERIOR FINISHES SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES.
2. REFER TO INTERIOR ELEVATIONS, CASEWORK AND FLOORING DETAILS IN COORINDATION WITH THIS PLAN.
3. REFER TO PROJECT SPECIFICATIONS AND MFG'S. PRODUCT SPECIFICATIONS FOR GENERAL PRODUCT INFORMATION. ALL INTERIOR FINISHES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER INSTALLATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SUBCONTRACTOR IS APPROVED AND QUALIFIED TO INSTALL FINISH MATERIALS & HAS EXPERIENCE WITH PROJECTS OF SIMILAR MAGNITUDE AND COMPLEXITY.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LEAD TIMES AND AVAILABILITY OF ALL MATERIALS SUCH THAT MATERIALS ARE ON SITE WHEN READY FOR INSTALLATION. THE RE-SELECTION OF MATERIAL BECAUSE OF LONG LEAD TIME WILL NOT BE PERMITTED.
5. ALL LOUVERS, GRILLES, FIRE EXTINGUISHER CABINETS, REGISTERS, METAL PANELS, ETC., ON WALLS SHALL BE PAINTED TO MATCH SURFACE COLOR ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
6. ALL COLUMNS AND PARTITIONS SHALL RECEIVE SCHEDULED BASE FOR THE ROOM U.N.O.
7. THE BASE AT LOWER CABINETS TO MATCH THE WALL BASE OF THE ROOM IN WHICH THEY OCCUR U.N.O IN MILLWORK DETAILS.
8. FOR INSTALLATION OF RESILIENT SHEET FLOORING, USE MANUFACTURERS RECOMMENDED EPOXY ADHESIVE AROUND FLOOR DRAINS, UNDER SINKS, DRINKING FOUNTAINS, AT RAMP LOCATIONS AND AT AREAS WITH HEAVY ROLLING LOADS.
9. ALL TRANSITIONS BETWEEN FLOOR MATERIALS SHALL BE SMOOTH. MAXIMUM VERTICAL CHANGE IN FLOOR LEVEL SHALL BE ¼".
10. CONTRACTOR TO PROVIDE SEAMING DIAGRAM FOR APPROVAL PRIOR TO INSTALLATION OF ALL FLOORING MATERIALS.
11. ALL EXPOSED PIPES AND CONDUITS TO BE PAINTED TO MATCH ADJACENT WALL SURFACES.
12. CONTRACTOR SHALL VERIFY THAT ALL SURFACES DESIGNATED TO RECEIVE A FINISH SHALL MEET MANUFACTURERS SPECIFICATIONS TO RECEIVE SPECIFIED FINISH. CONTRACTOR SHALL NOTIFY ARCHITECT SHOULD SURFACES NOT MEET MANUFACTURER REQUIREMENTS.
13. ALL MILLWORK PL1 WITH SSF1 COUNTERTOPS, U.N.O.
14. "OR EQUAL" PRODUCTS MAY BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
15. ALL FINISHES SHALL HAVE A MINIMUM CLASS 'C' FLAME SPREAD AND SMOKE DEVELOPED CLASSIFICATION OF LESS THAN 450.
16. ALL GYPSUM BOARD SHALL BE TYPE X, FIRE RATED REGARDLESS OF CODE REQUIREMENTS.
17. ALL PAINT MATERIAL SHALL BE EPA APPROVED AS RECOMMENDED BY THE MANUFACTURER TO PROVIDEA SUITABLE AND DURABLE FINISH FOR ITS INTENDED APPLICATION.
18. PLYWOOD SHALL BE ATTACHED TO METAL STUDS WITH #6-20 ZINC PLATED X 1-1/4" I FLAT HEAD SCREWS AT EACH STUD AT 12" O.C VERTICAL STARTING 3" A.F.F. ALLOW 1/2" MINIMUM GAP BETWEEN PLYWOOD AND FINISH FLOOR.
19. PREPARE ALL FLOORS PRIOR TO INSTALL FLOOR COVERING
20. TEST ALL FLOORS TO RECIEVE FLOOR COVERING PER VAPOR ALKALINITY ASTM F 710 AND RELATIVE HUMIDITY TESTING ASTM F 2170. TEST ONLY AFTER SLABS HAVE CURED 28 DAYS.
21. PROVIDE ALLOWANCE IN BID FOR VAPOR ALKALINITY CONTROL SYSTEM FOR FLOORS RECIEVING FLOOR COVERINGS.

Key Plan



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California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

FINISH PLAN & FINISH SCHEDULE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

3-A2.2

CONSTRUCTION DOCUMENTS

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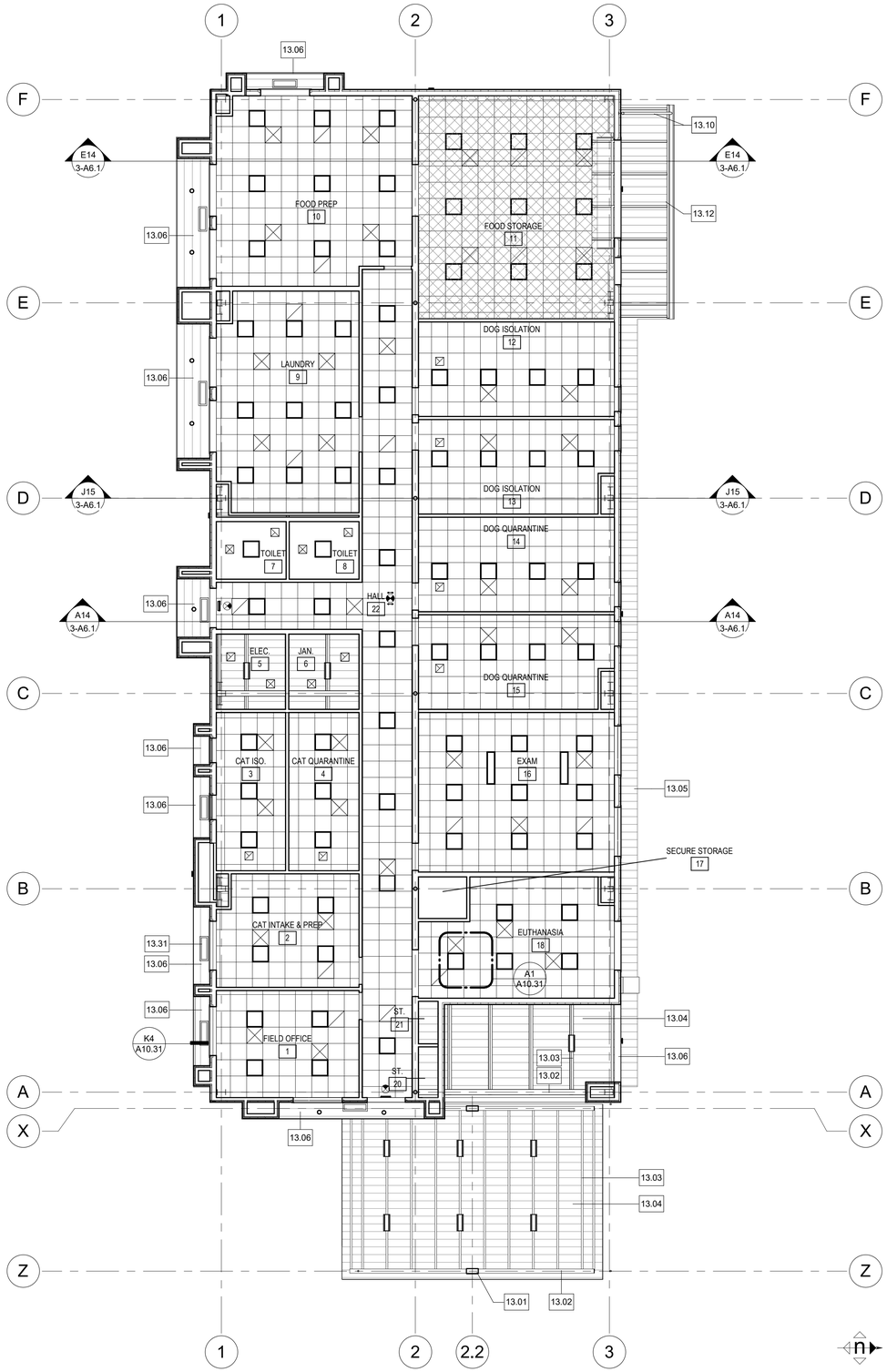


Legend

- SUSPENDED T-BAR CEILING WITH 2'x2' OR 2'x4' CEILING TILES
- SUSPENDED T-BAR CEILING ONLY, NO CEILING TILES
- GYPSUM BOARD CEILING & SUSPENDED GYP. BD. CEILING - SEE PLAN FOR TYPE-
- EXPO — NO CEILING - EXPOSED TO STRUCTURE ABOVE-
- PRE-ENGINEERED BUILDINGS, ACCESSORIES, METAL PANEL AT DROPPED SOFFITS
- ELECTRICAL, LIGHTING FIXTURES
- MECHANICAL. REGISTERS

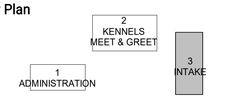
NOTES:

1. REFER TO SHEET G0.1 FOR SYMBOLS AND ABBREVIATIONS
2. REFER TO INTERIOR FINISH PLANS FOR MATERIALS TYPES AND COLORS

Keynotes

NO.	DESCRIPTION
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.05	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, RAKE/EAVE EXTENSION CANOPIES
13.06	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, SOFFIT
13.10	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, GUTTER, OVERFLOW AND DOWNSPOUT
13.12	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, BLOCKING
13.31	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, SOFFIT VENT

Key Plan



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LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

REFLECTED CEILING PLANS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

3-A3.1

CONSTRUCTION DOCUMENTS

A14 REFLECTED CEILING PLAN
1/8" = 1'-0"

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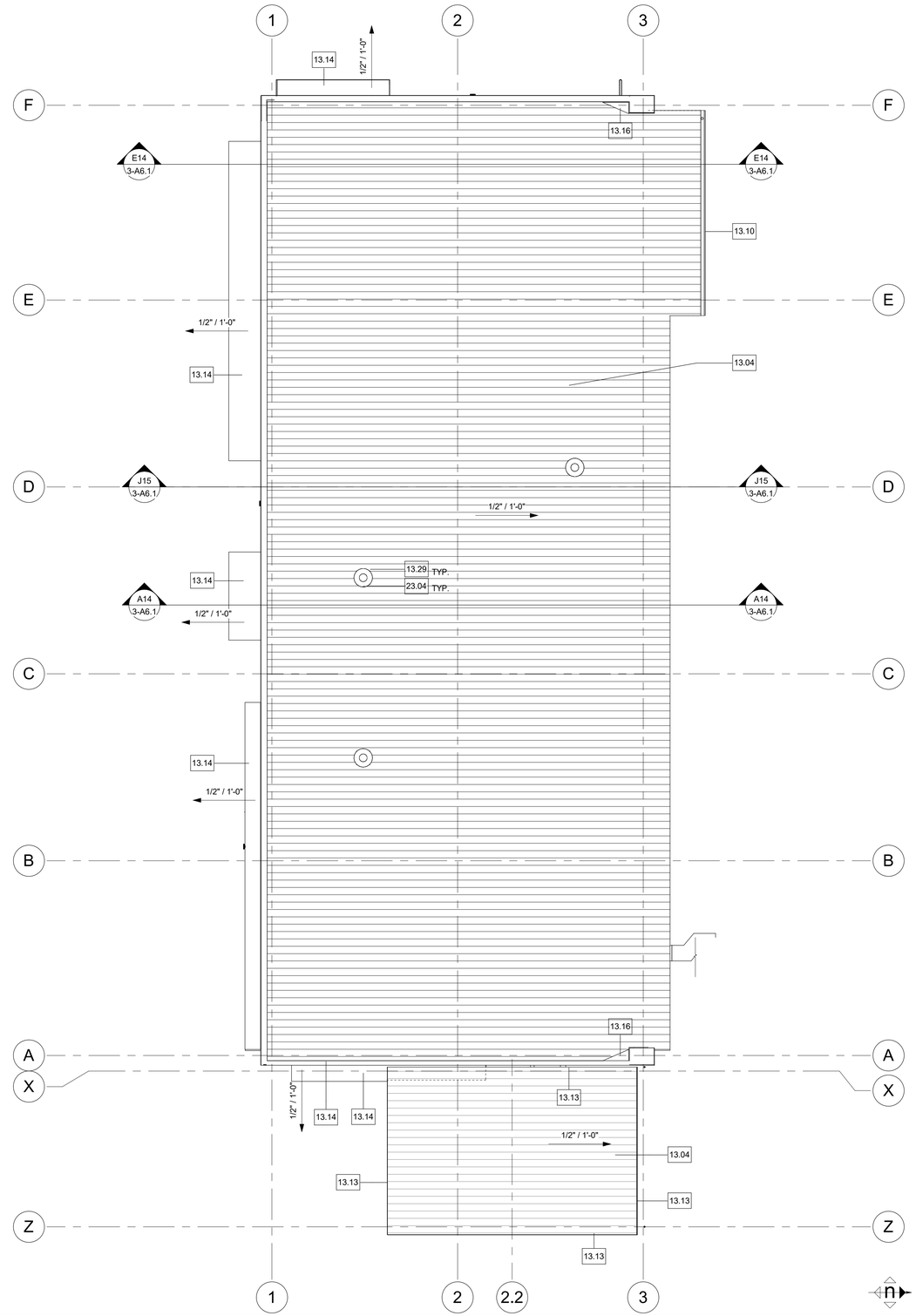


A14 ROOF PLAN
1/8" = 1'-0"

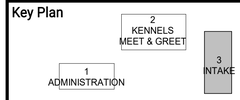
Legend

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS

Keynotes

NO.	DESCRIPTION
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.10	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, GUTTER, OVERFLOW AND DOWNSPOUT
13.13	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CLOUSURE, ROOF
13.14	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PARAPET CAP, SHEET METAL, 20 GAUGE
13.16	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CRICKET
13.29	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, ROOF CURB AND FLASHING
23.04	MECHANICAL, EXHAUST FAN

Key Plan



LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

ROOF PLAN

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

3-A4.1

CONSTRUCTION DOCUMENTS

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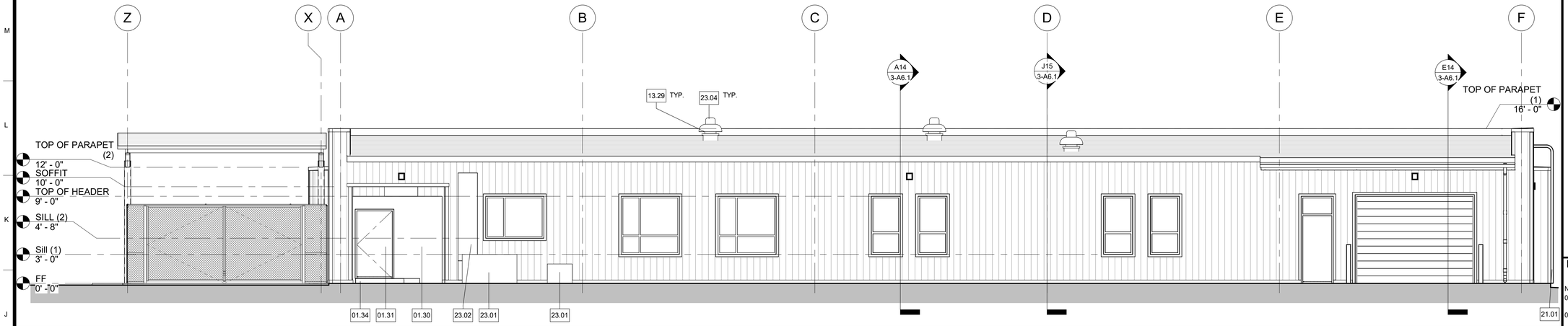
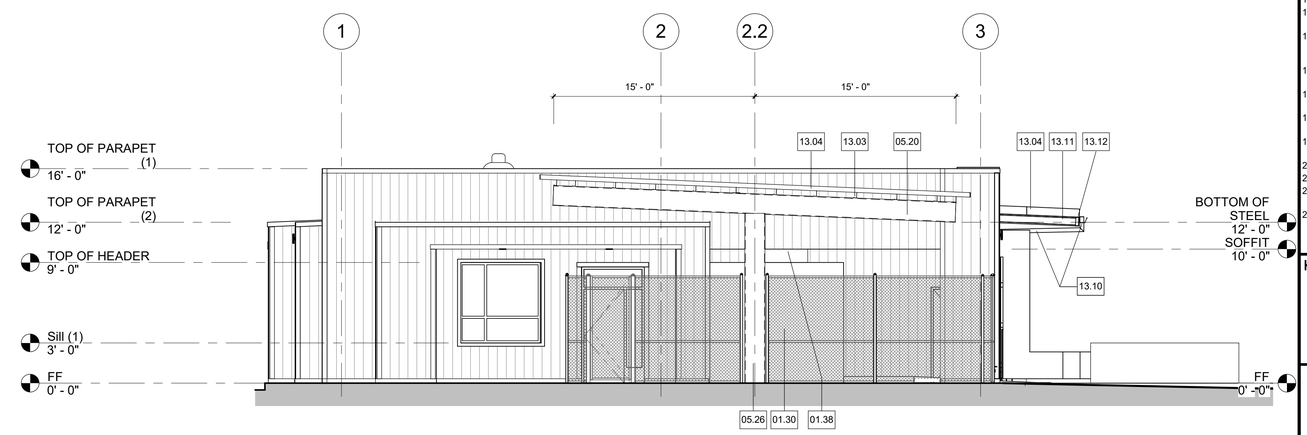
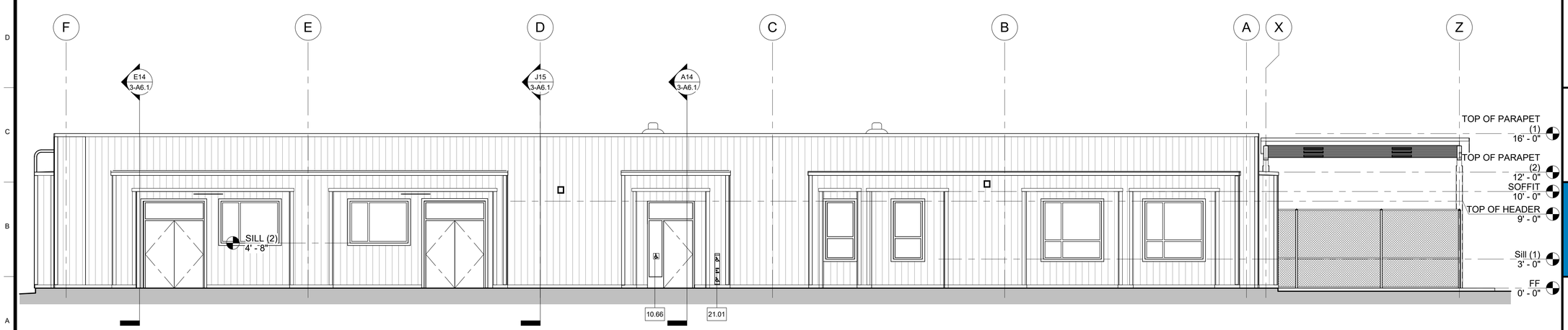


J15 NORTH
3/16" = 1'-0"



E15 EAST
3/16" = 1'-0"



A15 SOUTH
3/16" = 1'-0"

Legend

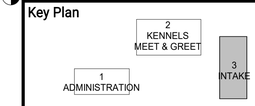
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   - WALLS: THERMAL BATT - R19
     RIGID OUTBOARD - R5
   - ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   - DOOR GLAZING: U - 0.5 , SHGC 0.8, TEMPERED
   - WINDOW GLAZING: U - 0.29 , SHGC - 0.22
3. ALL INTERIOR GLAZINGTO BE CLEAR TEMPERED.

Keynotes

NO.	DESCRIPTION
01.30	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, WALL, NIC
01.31	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, DOOR, NIC
01.34	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, RAMP, NIC
01.38	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, CONDENSER, NIC
05.20	STRUCTURAL STEEL FRAMING, STEEL, BEAM
05.26	STRUCTURAL STEEL FRAMING, STEEL, COLUMN
10.66	IDENTIFYING DEVICES, ACCESSIBILITY ENTRANCE
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.10	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, GUTTER, OVERFLOW AND DOWNSPOUT
13.11	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, OUTRIGGER
13.12	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, BLOCKING
13.29	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, ROOF CURB AND FLASHING
21.01	FIRE PROTECTION, RISER
23.01	MECHANICAL, UNIT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
23.04	MECHANICAL, EXHAUST FAN

Key Plan



ARCHITECT:
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

EXTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

3-A5.1

CONSTRUCTION DOCUMENTS

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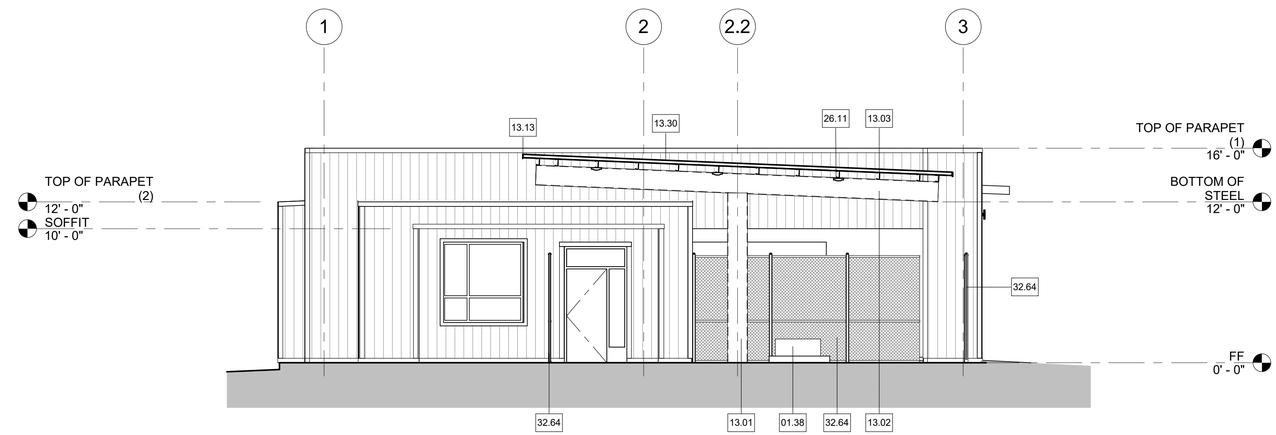
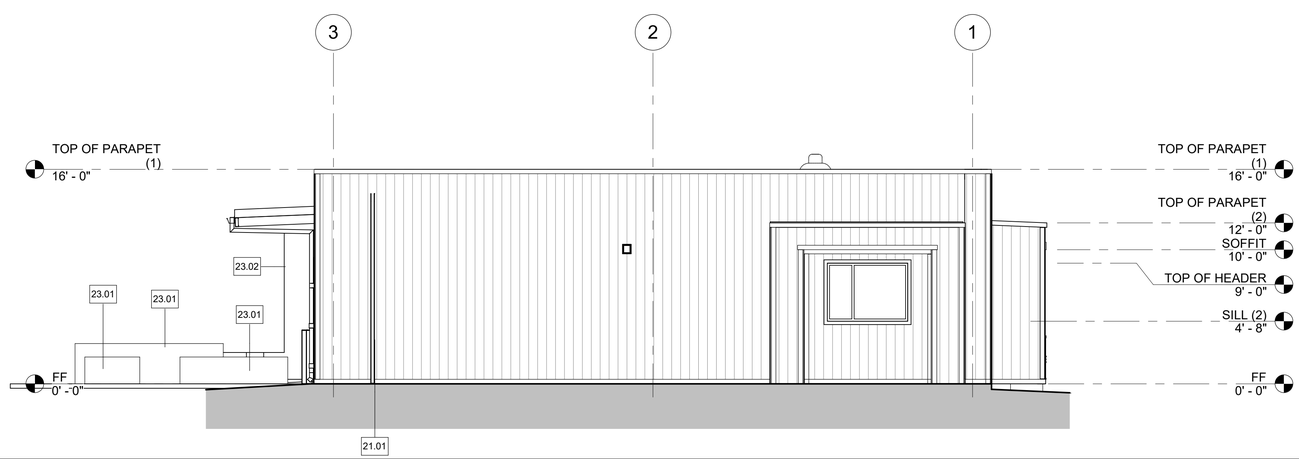


E14 EAST
3/16" = 1'-0"



A15 WEST
3/16" = 1'-0"

Legend

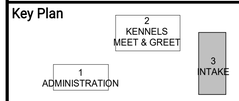
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   - WALLS: THERMAL BATT - R19
     RIGID OUTBOARD - R5
   - ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   - DOOR GLAZING: U - 0.5 , SHGC 0.8, TEMPERED
   - WINDOW GLAZING: U - 0.29 , SHGC - 0.22
3. ALL INTERIOR GLAZINGTO BE CLEAR TEMPERED.

Keynotes

NO.	DESCRIPTION
01.38	OWNER-FURNISHED ITEMS, WALK-IN FREEZER, CONDENSER, NIC
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.13	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, CLOUSURE, ROOF
13.30	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, PANEL
21.01	FIRE PROTECTION, RISER
23.01	MECHANICAL, UNIT
23.02	MECHANICAL, DUCT, DIAGRAMMATIC LAYOUT, SEE MECHANICAL FOR EXACT LOCATION
26.11	ELECTRICAL, LIGHT, SURFACE
32.64	CHAIN LINK, FENCE

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

EXTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

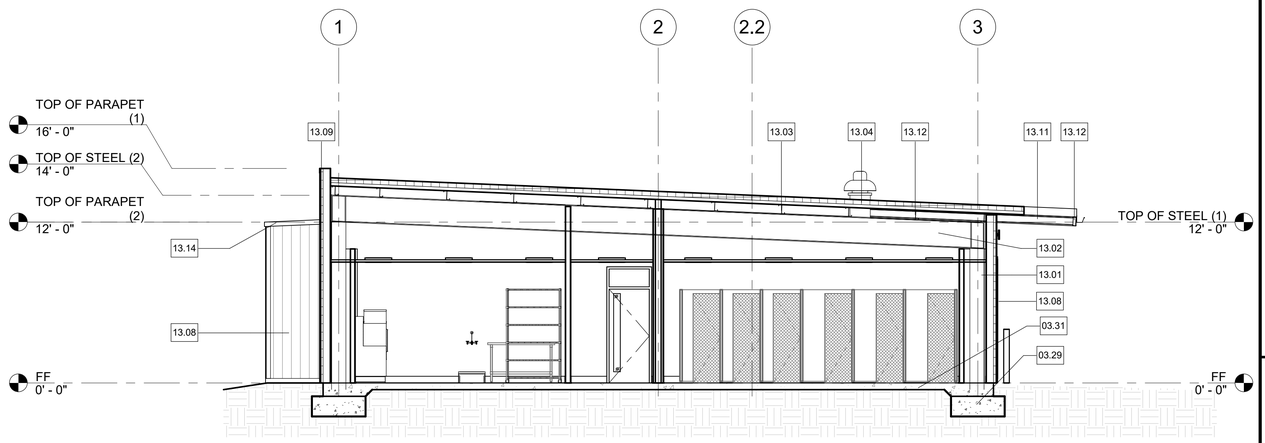
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

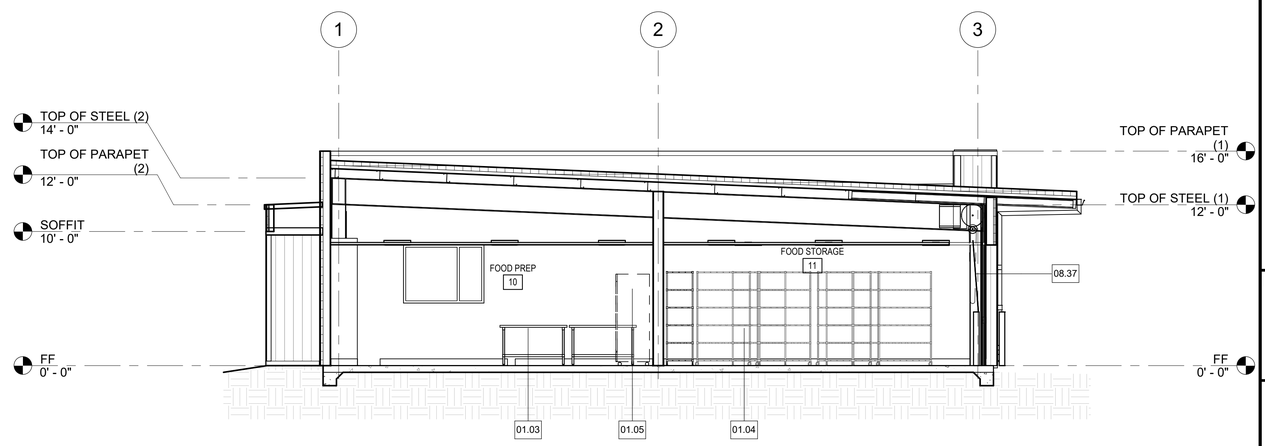
3-A5.2

CONSTRUCTION DOCUMENTS

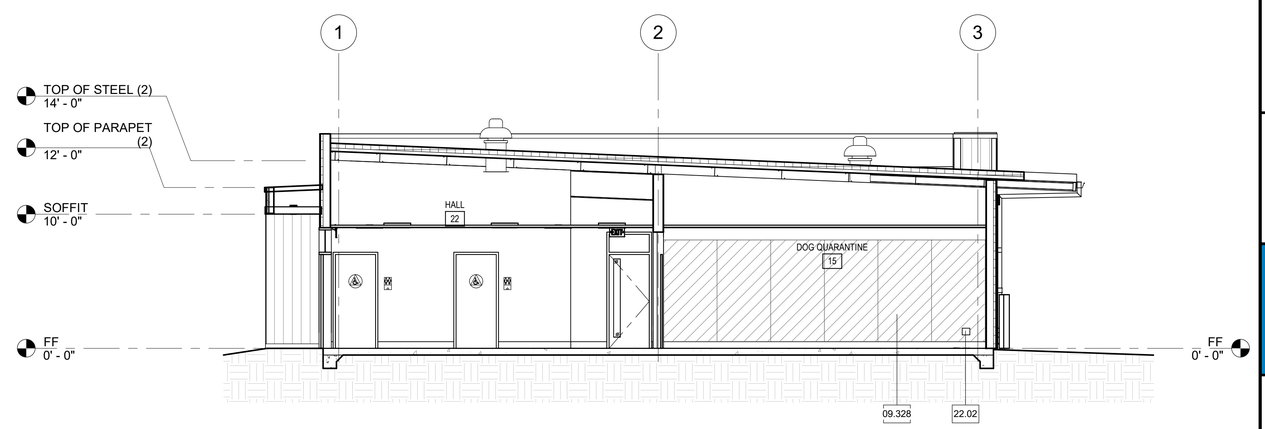
Drawn by: AH Plotted on: 6/29/2020 12:43:02 PM



J15 BUILDING SECTION
3/16" = 1'-0"



E14 BUILDING SECTION
3/16" = 1'-0"



A14 BUILDING SECTION
3/16" = 1'-0"

Legend

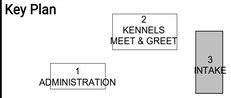
NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   WALLS: THERMAL BATT - R19
   RIGID OUTBOARD - R5
   ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33 .
   DOOR GLAZING: U - 0.5 , SHGC 0.8, TEMPERED
   WINDOW GLAZING: U - 0.29 , SHGC - 0.22
3. ALL INTERIOR GLAZINGTO BE CLEAR TEMPERED.

Keynotes

NO.	DESCRIPTION
01.03	OWNER-FURNISHED ITEMS, TABLES, WORK, NIC
01.04	OWNER-FURNISHED ITEMS, SHELVING, METAL WIRE, NIC
01.05	OWNER-FURNISHED ITEMS, REFRIGERATOR, NIC
03.29	CAST-IN-PLACE CONCRETE, FOOTINGS
03.31	CAST-IN-PLACE CONCRETE, SLAB ON GRADE
08.37	COILING DOORS
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
13.01	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, COLUMN
13.02	PRE-ENGINEERED METAL BUILDINGS, PRIMARY STRUCTURAL MEMBERS, BEAM
13.03	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, PURLIN
13.04	PRE-ENGINEERED METAL BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED 26 GA. METAL FACING BOTH SIDES, R33 MIN
13.08	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PANEL, WALL SYSTEM, INSULATED
13.09	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PARAPET CAP, SHEET METAL OVER 20 GUAGE TRACKS, SLOPE TRACKS TOWARDS MAIN ROOF
13.11	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, OUTRIGGER
13.12	PRE-ENGINEERED METAL BUILDINGS, SECONDARY STRUCTURAL MEMBERS, BLOCKING
13.14	PRE-ENGINEERED METAL BUILDINGS, ACCESSORIES, PARAPET CAP, SHEET METAL, 20 GAUGE
22.02	PLUMBING, HOSE BIBB, HOT AND COLD WATER, TYP.

Key Plan



LICENSED ARCHITECT
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REN: 10-31-21
STATE OF CALIFORNIA

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

BUILDING SECTIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

3-A6.1

CONSTRUCTION DOCUMENTS

Drawn by: AH Plotted on: 6/29/2020 12:43:05 PM

Legend - Interior Elevations

SYMBOLS

- ELECTRICAL, DUPLEX OUTLET
- ELECTRICAL, FOURPLEX OUTLET
- ELECTRICAL, LIGHT SWITCH
- AV — ELECTRICAL, FIRE ALARM DEVICE, STOBE AND AUDIO, SEE FIRE ALARM DRAWINGS
- V — ELECTRICAL, FIRE ALARM DEVICE, STROBE, SEE FIRE ALARM DRAWINGS
- TELECOMMUNICATIONS, DATA OUTLET
- HARDWARE, ACTUATOR
- T — MECHANICAL, THERMOSTAT

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. ALL DETAILS, MATERIAL AND FINISHES SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
3. REFER TO PLUMBING, TELECOMMUNICATION, SERVICE AND ELECTRICAL FOR ALL WALL MOUNTED DEVICES AND COORDINATE LOCATION AND HEIGHTS WITH ARCHITECTURAL (I.E. CASEWORK, EQUIPMENT, ETC.).
4. LOCATE AND MOUNT IDENTIFYING DEVICES PER SIGNAGE SCHEDULE.
5. LOCATE AND MOUNT TOILET ACCESSORIES AND PLUMB. FIXTURES PER DETAIL A12/A10.71 UNO.
6. PROVIDE BACKING AT TOILET ACCESSORIES AND IDENTIFYING DEVICES PER DETAILS A12/A10.71 UNO.
7. PROVIDE BACKING AT ALL MODULAR CASEWORK PER DETAIL A12/A10.13 OR D12/A10.13
8. SEE FINISH PLAN & FINISH SCHEDULE 3-A2.2 FOR INTERIOR COLOR SCHEDULE AND PATTERNS

Legend - Floor Plan

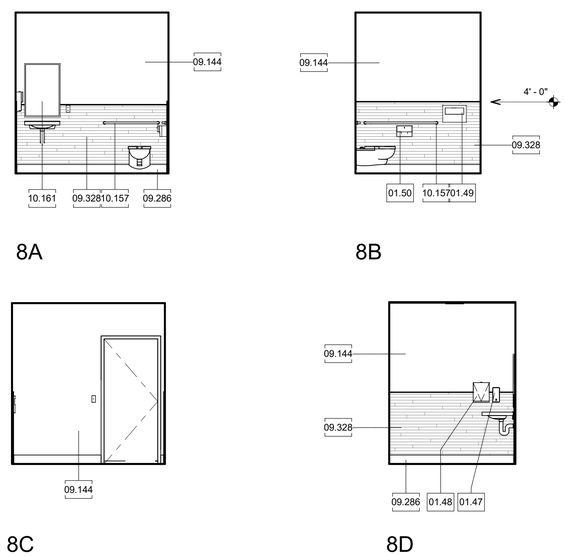
SYMBOL	DESCRIPTION
	NEW WALL. SEE WALL LEGEND DETAIL A1-A10.11
1A	WALL TYPE: ALL EXTERIOR WALLS TO BE 11C UNO. ALL INTERIOR WALLS TO BE 2A UNO.

NOTES

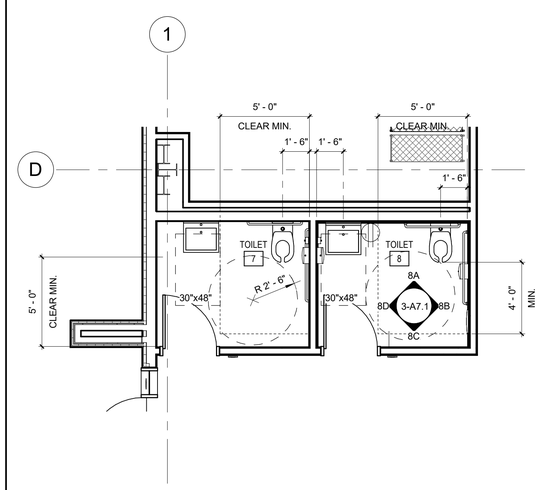
1. REFER TO G0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD (FOS) OR CENTER LINE, UNLESS NOTED OTHERWISE.
3. ALL ELEVATION DIMENSIONS ARE ABOVE FINISH FLOOR AT EACH FLOOR LEVEL, UNLESS NOTED OTHERWISE.
4. DIMENSIONS NOTED AS "+/-" ARE NOMINAL.
5. FLOOR DRAINS (FD) AND FLOOR SINKS (FS) SHALL BE SET -3/4" AND A MIN. OF 3'-0" FROM NEAREST WALL, UNLESS NOTED OTHERWISE.
6. IDENTIFYING DEVICES, FOR ROOM SIGNAGE REFER TO A10.81 AND SPECIFICATIONS.

Keynotes

NO.	DESCRIPTION
01.47	OWNER-FURNISHED ITEMS, SOAP DISPESER
01.48	OWNER-FURNISHED ITEMS, PAPER TOWEL DISPENSER
01.49	OWNER-FURNISHED ITEMS, TOILET SEAT PAPER DISPENSER
01.50	OWNER-FURNISHED ITEMS, TOILET TISSUE DISPENSER
09.144	GYPSUM BOARD, WATER RESISTANT, FIRE RATED
09.286	RESILIENT BASE AND ACCESSORIES, RUBBER BASE
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
10.157	TOILET ACCCESSORIES, GRAB BAR
10.161	TOILET ACCCESSORIES, MIRROR, TYPE 1



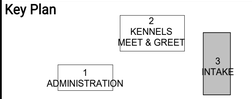
8 1/8" = 1'-0" **TOILET** (7 TOILET - SIMILAR)



ENLARGED FLOOR PLAN

A12 1/8" = 1'-0" **ENLARGED TOILET PLANS & INTERIORS**

Key Plan



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Project

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FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

ENLARGED TOILET PLANS AND INTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

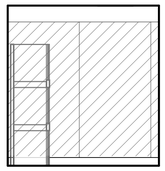
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

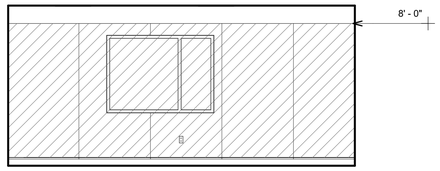
3-A7.1

CONSTRUCTION DOCUMENTS

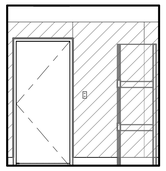
Drawn by: AH Plotted on: 6/29/2020 12:43:09 PM



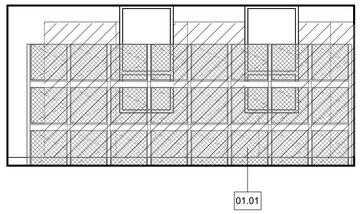
3A



3B

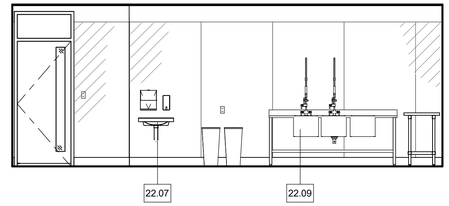


3C



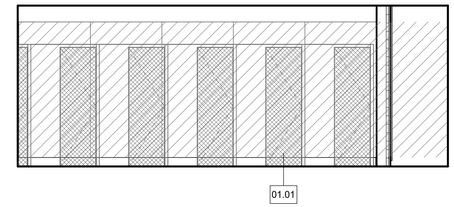
3D

3 1/8" = 1'-0" **CAT ISOLATION**

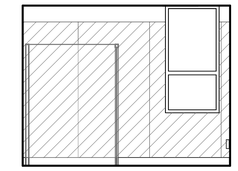


10A

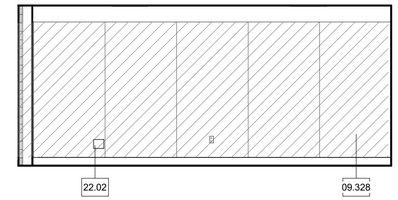
10 1/8" = 1'-0" **FOOD PREP**



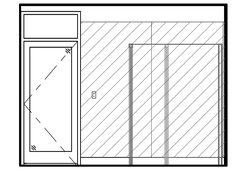
12A



12B

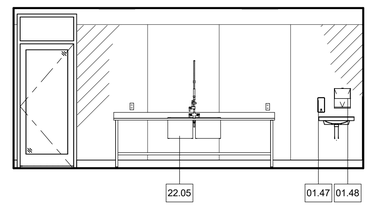


12C



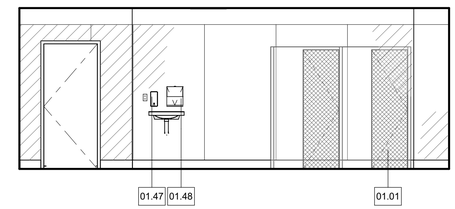
12D

12 1/8" = 1'-0" **DOG ISOLATION**



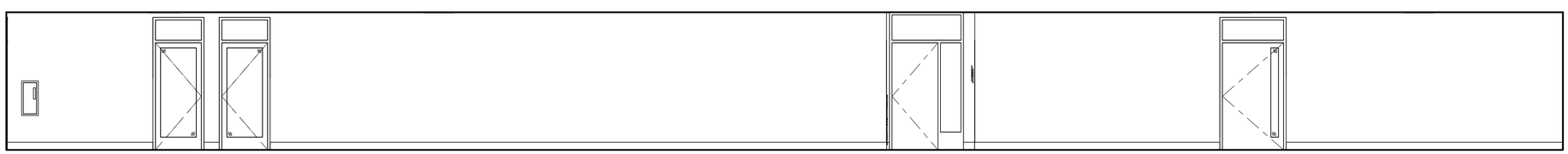
16A

16 1/8" = 1'-0" **EXAM**

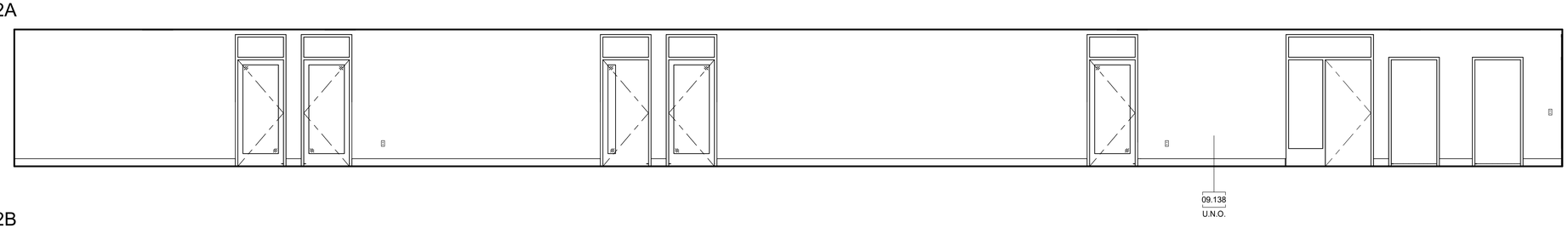


18A

18 1/8" = 1'-0" **EUTHANSIA**



22A



22B

22 1/8" = 1'-0" **HALL**

Legend

SYMBOLS

- ELECTRICAL, DUPLEX OUTLET
- ELECTRICAL, FOURPLEX OUTLET
- ELECTRICAL, LIGHT SWITCH
- AV — ELECTRICAL, FIRE ALARM DEVICE, STOBE AND AUDIO, SEE FIRE ALARM DRAWINGS
- V — ELECTRICAL, FIRE ALARM DEVICE, STROBE, SEE FIRE ALARM DRAWINGS
- D — TELECOMMUNICATIONS, DATA OUTLET
- A — HARDWARE, ACTUATOR
- T — MECHANICAL, THERMOSTAT

NOTES

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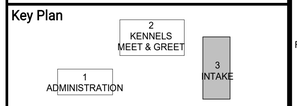
8. SEE FINISH PLAN & FINISH SCHEDULE 3-A2.2 FOR INTERIOR COLOR SCHEDULE AND PATTERNS

Keynote

NO.	DESCRIPTION
01.01	OWNER-FURNISHED ITEMS, KENNEL, NIC
01.47	OWNER-FURNISHED ITEMS, SOAP DISPESER
01.48	OWNER-FURNISHED ITEMS, PAPER TOWEL DISPENSER
09.138	GYPSUM BOARD, WALLBOARD, FIRE RATED
09.328	WALL COVERINGS, "FORMICA", MODEL: HARDSTOP PANEL
22.02	PLUMBING, HOSE BIBB, HOT AND COLD WATER, TYP.
22.05	PLUMBING, SCRUB SINK
22.07	PLUMBING, HANDWASH SINK
22.09	PLUMBING, 3 COMPARTMENT SINK

Key Plan



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FRESNO, CA

Sheet Content:

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Building No.: 3

INTERIOR ELEVATIONS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

3-A8.1

CONSTRUCTION DOCUMENTS

Drawn by: AH Plotted on: 6/29/2020 12:43:14 PM

Signage Schedule

Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Sign Copy Line 4	Sign Copy Line 5	Sign Copy Line 6	Sign Copy Line 7	Sign Copy Line 8	Mtg Height	Mtg Cond	Mtg Loc	Remarks
7aA	R1	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	1	SR-1	-
7aB	R2	IP	-	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
8aA	R1	IP	UNISEX	-	-	-	-	-	-	-	5' - 0"	1	SR-1	-
8aB	R2	IP	-	-	-	-	-	-	-	-	5' - 0"	5	DR-1	-
22aB	EN1	D	-	-	-	-	-	-	-	-	3' - 4"	4	H-1	-

MOUNTING CONDITION

1. METAL STUD FRAMED WALL
2. NOT USED
3. NOT USED
4. GLASS
5. DOOR
6. SEE PLAN

SIGN MATERIAL:

EP = EXTERIOR PLASTIC.
IP = INTERIOR PLASTIC.
D = DECAL.

ABBREVIATIONS:
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED

GENERAL NOTE:
1. PROVIDE BACKSIDE BLACKOUT MATERIAL FOR SIGN WHEN MOUNTING TO GLAZING.

MOUNTING HEIGHT:
A12-A10.81

MOUNTING LOCATION:

STRIKE SIDE ADJACENT (S-1).
STRIKE SIDE ADJACENT REVERSE SWING (SR-1).

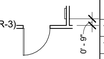
STRIKE SIDE AWAY (S-2).
SRIKE SIDE AWAY REVERSE SWING (SR-2).

HINGE SIDE ADJACENT (H-1).
HINGE SIDE ADJACENT REVERSE SWING (HR-1).

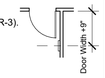
DOOR MOUNTED (D-1).
DOOR MOUNTED REVERSE SWING (DR-1)

SLIDING DOOR MOUNT (SD-1)

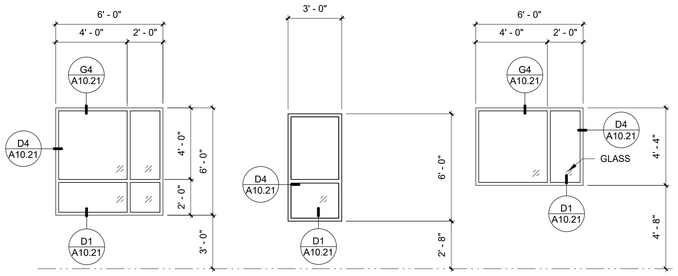
STRIKE SIDE ADJACENT WALL REVERSE SWING (SR-3)
STRIKE SIDE ADJACENT WALL (S-3)



HINGE SIDE ADJACENT WALL (H-3).
HINGE SIDE ADJACENT WALL REVERSE SWING (HR-3).

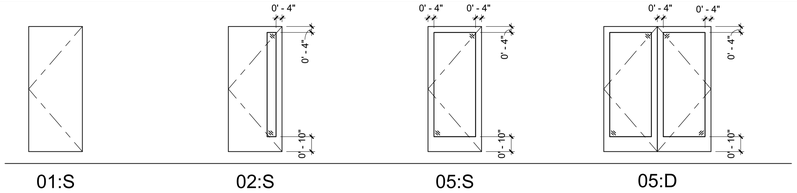


D5 SIGNAGE SCHEDULE

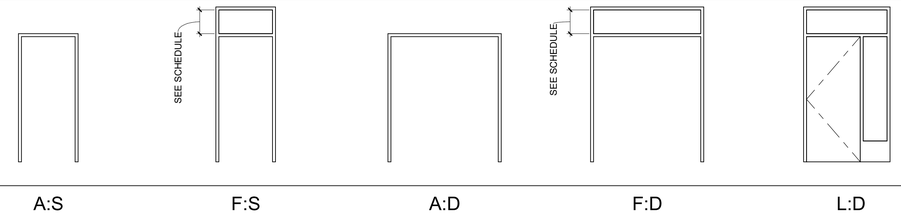


1 6 5

A5 WINDOW SCHEDULE
1/4" = 1'-0"



K14 DOOR PANEL TYPES
1/4" = 1'-0"



H14 DOOR PANEL TYPES
1/4" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE # OF	WIDTH PANEL	HEIGHT	Fire Rating	Door MATERIAL	FINISH	PANEL TYPE	UNDERCUT	FRAME MATERIAL	FINISH	FRAME TYPE	HARDWARE GROUP	PANIC	GLASS	DETAILS (SHEET A10.21 U.N.O.) HEAD	JAMB 1	JAMB 2	THRESH	Comments
1a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
2a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
3a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	DOOR GASKETING ALL SIDES, TOP AND BOTTOM
4a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	DOOR GASKETING ALL SIDES, TOP AND BOTTOM
5a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
6a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
7a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	3	No	-	K12	D12	D12	L4	
8a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	3	No	-	K12	D12	D12	L4	
9a	2	3' - 0"	7' - 0"	NR	WD	FF	01 : D	0' - 0"	AL	FF	F : D	1	No	-	A8-A10.22	A1-A10.22	A1-A10.22	A12	
9b	1	4' - 0"	7' - 0"	NR	WD	PL	02 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
10a	2	3' - 0"	7' - 0"	NR	WD	FF	01 : D	0' - 0"	AL	FF	F : D	1	No	-	A8-A10.22	A1-A10.22	A1-A10.22	A12	
10b	2	3' - 0"	7' - 0"	NR	WD	PL	01 : D	0' - 0"	PM	FF	A : D	2	No	-	K12	D12	D12	-	
10c	1	3' - 0"	7' - 0"	NR	WD	PL	02 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
11a	1	3' - 0"	7' - 0"	NR	WD	FF	01 : S	0' - 0"	AL	FF	F : S	1	No	CT	G4,D4-A10.22	A1-A10.22	A1-A10.22	A12	
11b			10' - 0"	NR	AL	FF			HM	FF		BY MANUF.	No	-	X##	X##	X##	G4-A10.22	COILING DOOR
12a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
13a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
14a	1	3' - 0"	7' - 0"	NR	WD	PL	02 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
15a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	-	
16a	1	3' - 0"	7' - 0"	NR	WD	PL	05 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	D12	L4	
17a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
18a	1	3' - 0"	7' - 0"	NR	WD	PL	02 : S	0' - 0"	PM	FF	F : S	2	No	CT	K12	D12	G12	L4	
18b	1	3' - 0"	7' - 0"	NR	WD	FF	01 : S	0' - 0"	AL	FF	A : S	1	No	CT	G8-A10.22	A1-A10.22	A1-A10.22	A12	
20a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
21a	1	3' - 0"	7' - 0"	NR	WD	PL	01 : S	0' - 0"	PM	FF	A : S	2	No	-	K12	D12	D12	-	
22a	1	3' - 0"	7' - 0"	NR	AL	FF	01 : S	0' - 0"	AL	FF	L : S	1	No	-	D8-A10.22	D4	A1-A10.22	A12	
22b	1	3' - 0"	7' - 0"	NR	AL	FF	05 : S	0' - 0"	AL	FF	L : S	1	No	-	D8-A10.22	D4	A1-A10.22	A12	
SG1			8' - 0"	NR	Chain Link	PT		0' - 3"	Chain Link	PT			No	-	-	-	-	-	CHAIN LINK FENCE GATES REFER TO A10.11 AND G1.1 FOR DETAILS
SG2			8' - 0"	NR	Chain Link	PT		0' - 3"	Chain Link	PT			No	-	-	-	-	-	CHAIN LINK FENCE GATES REFER TO A10.11 AND G1.1 FOR DETAILS

DOOR SCHEDULE LEGEND

AL	ALUMINUM
CT	CLEAR TEMPERED
D	DOUBLE LEAVES
FF	FACTORY FINISH
FG	FIRE RATED GLAZING
HM	HOLLOW METAL
IG	INSULATED GLAZING
NR	NON RATED
PL	PLASTIC LAMINATE
PM	PRE-FINISHED METAL DOOR FRAMES WITH ADJUSTABLE THROAT
PT	PAINTED
STAIN	STAINED
WD	SOLID CORE WOOD
WV	WOOD VENEER
-	NOT APPLICABLE

NOTES

1. ALL EXITS DOOR TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
2. PROVIDE 18" STRIKE CLEARANCE FOR THE DOORS.
3. SPECIFY 18" STRIKE-SIDE X 60" DEEP CLEARANCE AT DOORS.
4. SPECIFY ALL DOORS ARE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE (i.e., LEVER) CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR.
5. SPECIFY MAXIMUM DOOR OPENING EFFORTS OF 5 LBS. AT EXTERIOR AND INTERIOR DOORS, AND 15 LBS. AT FIRE DOORS.
6. SPECIFY 10" KICK PLATE AT BOTTOM OF THERE ARE GLAZED DOORS (i.e. STOREFRONT-TYPE).
7. FOR DOOR HARDWARE- PERFORMACE SPECIFICATION FOR DOOR HARDWARE GROUPS, SEE DETAIL A4/A10.23
8. DOORS AT CROSS CORRIDOR/HALLWAY SHALL BE OPERABLE FROM BOTH SIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE.
9. FOR INFORMATION REGARDING CARD READER SEE OWNER
10. FOR EXTERIOR FLASHING AT DOORS, REFER TO DETAIL A12/A10.22
11. FOR LOCATION OF DOOR OPERATOR PUSH PADDLE SEE DETAIL A4/A10.81
12. THE CONTRACTOR WHALL SUBMIT A COMPLETE DOOR AND HARDWARE SCHEDULE TO BE INSTALLED ON THIS PROJECT FOR REVIEW, COMMENT AND APPROVAL.
13. VERIFY AND COORDINATE ALL ELECTRONIC ACESS DEVICES, KEY ACCESS REQUIREMENTS, HARDWARE SPECIFICATIONS, AND DOOR OPERATIONS WITH FRESNO COUNTY FACILITY SERVICES PRIOR TO ORDERING MATERIALS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO COUNT AND VERIFY NUMBER AND QUANTITY OF DOORS.
15. SEE SHEET 3-A2.2 FOR OTHER DOOR AND FRAME INFORMATION AND COLORS.

A14 DOOR SCHEDULE

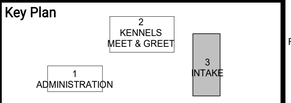
Legend

NOTES

1. REFER TO SHEET G0.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. BUILDING ENVELOPE:
   WALLS: THERMAL BATT - R19
   RIGID OUTBOARD - R5
   ROOF: PRE-ENGINEERED BUILDINGS, ROOF SYSTEM, FOAM INSULATED, PRE-FINISHED, METAL FACING BOTH SIDES, R33
   DOOR GLAZING: U - 0.5 , SHGC 0.8, TEMPERED
   WINDOW GLAZING: U - 0.29 , SHGC - 0.22
3. ALL INTERIOR GLAZINGTO BE CLEAR TEMPERED.

Keynotes

Key Plan



ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: INTAKE
Building No.: 3

DOOR, WINDOW & SIGNAGE SCHEDULE

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

3-A9.1

CONSTRUCTION DOCUMENTS

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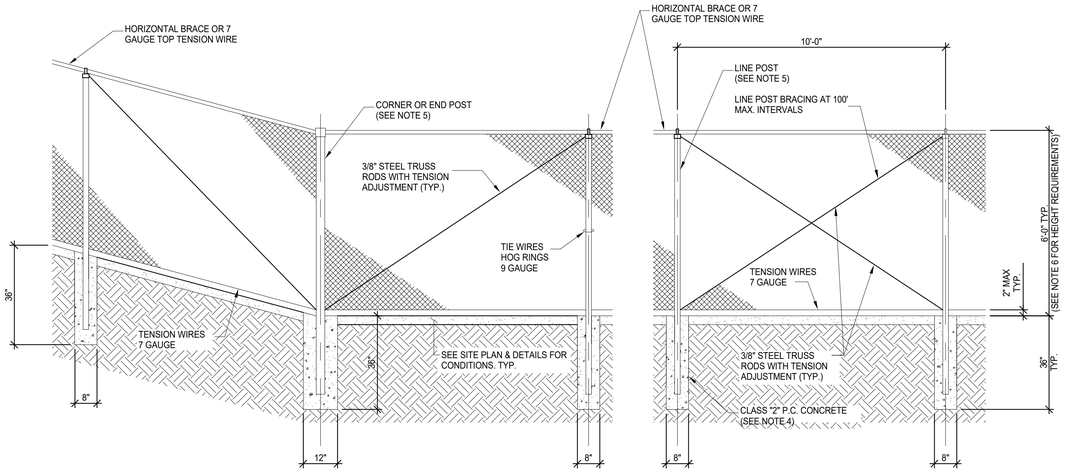
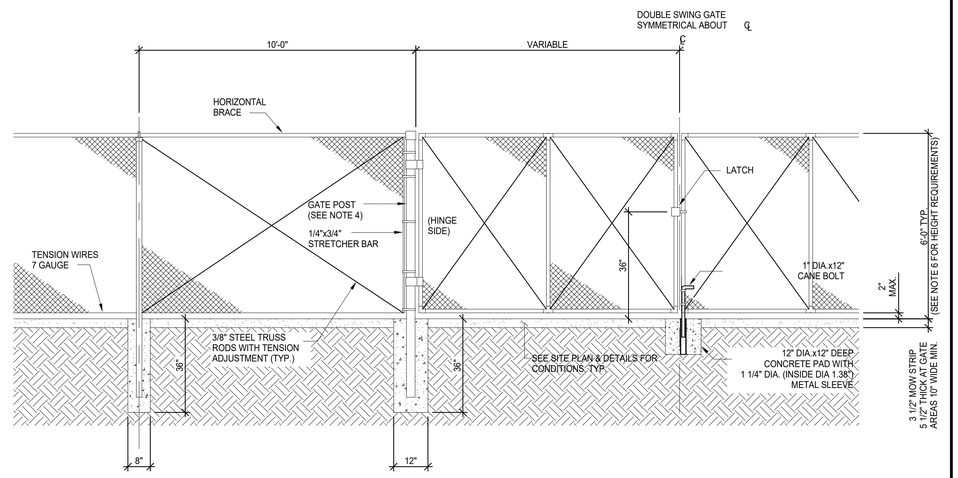
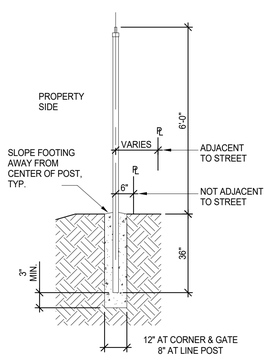
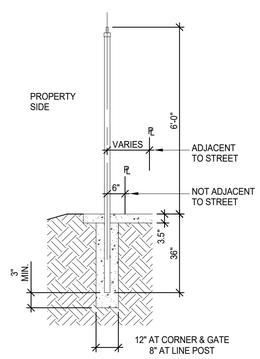




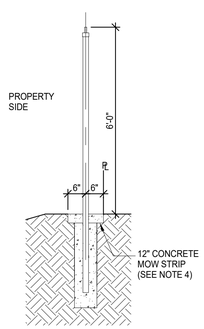
DOUBLE SWING GATE



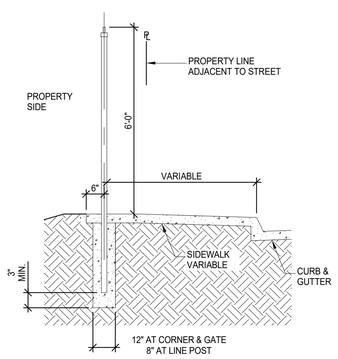
FOOTING - FLUSH WITH GRADE



FOOTING

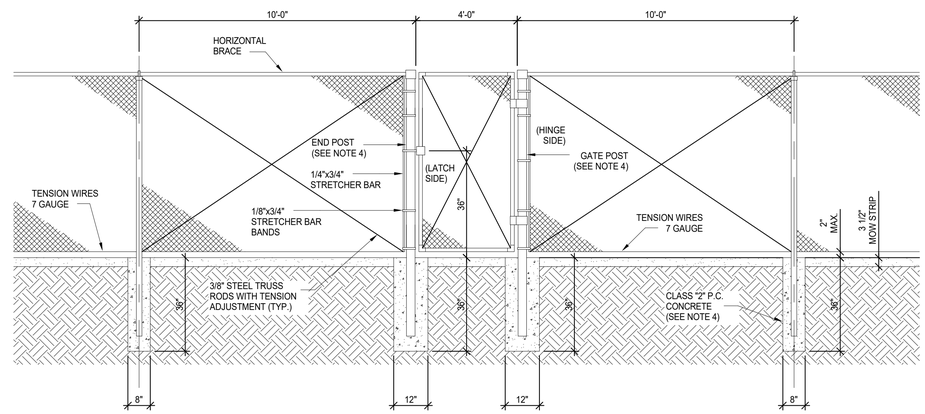


FOOTING & MOW STRIP



FOOTING & SIDEWALK

NOTES:
1. All metal shall be galvanized.
2. Fence fabric shall be 9-gauge, 2" mesh.
3. Fabric edges shall be knuckled.
4. All concrete shall be class 2.
5. Line post: 2-3/8" O.D., 3.65 lbs.-ft.
Corner and end posts: 2-7/8" O.D., 5.79 lbs./ft.
Braces: 1-5/8" O.D., 2.27 lbs./ft.
6. For line post up to 6' high, footing shall be 8" (12" for corner post) diameter.
For line post higher than 6' and up to 10', footing shall be 12" (18" for corner post) diameter.



4' WALK GATE

NOTES:
1. For mow strip and post details, see standard drawings ____.
2. All metal shall be galvanized.
3. Gate fabric shall be 9-gauge, 2" mesh, knuckled.
4. Gate post: gate width,
6' or less: 2-7/8" O.D., 5.79 lbs./ft.
7' thru 13': 4" O.D., 9.11 lbs./ft.
14' thru 18': 6-5/8" O.D., 18.97 lbs./ft.
over 18': 8-5/8" O.D., 24.70 lbs./ft.
5. All concrete shall be class 2.
6. For line post up to 6' high, footing shall be 8" (12" for corner post) diameter.
For line post higher than 6' and up to 10', footing shall be 12" (18" for corner post) diameter.

A13
1/2" = 1'-0"
CHAIN LINK FENCE DETAILS

Legend

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

SITE DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A10.01

CONSTRUCTION DOCUMNENTS

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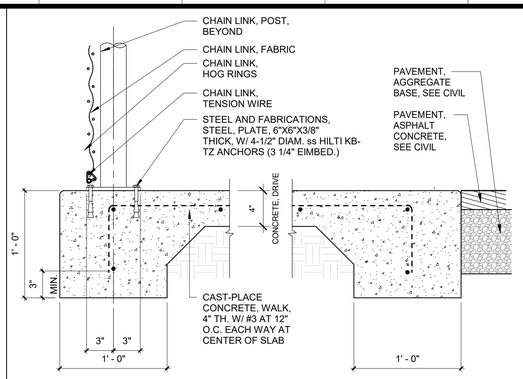
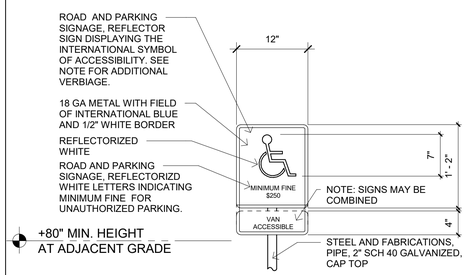


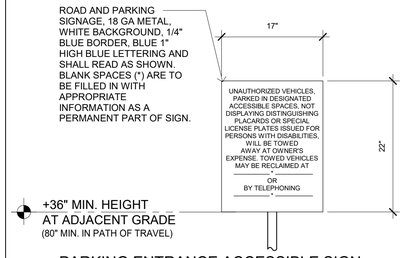
K4 | CAST-IN-PLACE CONCRETE, CONCRETE PAD AT COVERED AREA

1 1/2" = 1'-0"

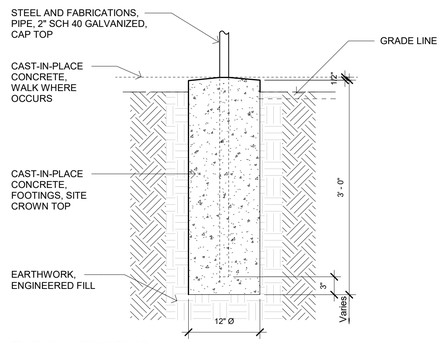


NOTE:
PROVIDE THE FOLLOWING ADDITIONAL VERBIAGE WHERE REQUIRED
-AT "VAN ACCESSIBLE STALL"- "VAN ACCESSIBLE"
-AT " ACCESSIBLE DROP OFF" - "PASSENGER LOADING ONLY"

PARKING STALL ACCESSIBLE SIGN



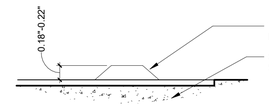
PARKING ENTRANCE ACCESSIBLE SIGN



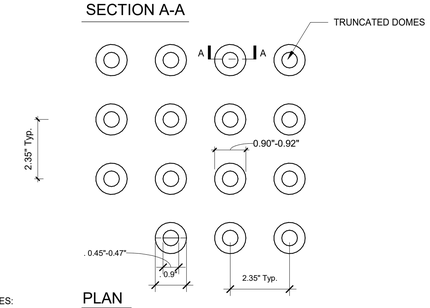
TYPICAL FOOTING

A4 | ROAD AND PARKING SINAGE, Accessible Parking & Entrance Sign

1" = 1'-0"



SECTION A-A



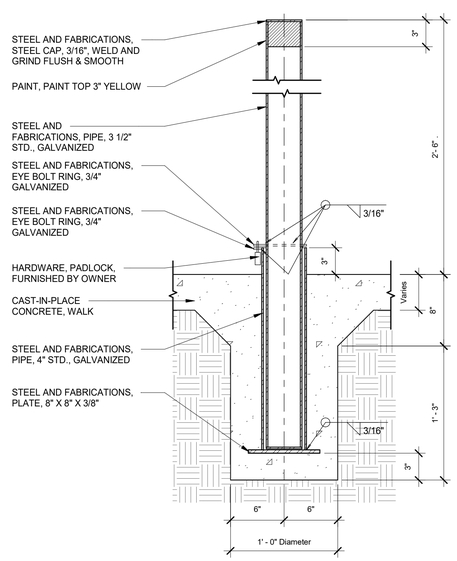
PLAN

NOTES:

1. ONLY APPROVED DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLES 2, 3, AND 4.
2. DETECTABLE WARNING SURFACE SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C.
3. WHERE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70% CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM THE ADJACENT SURFACE.
4. THE DOMES SHALL BE MANUFACTRUED BY ARMOR TILE INC. OR APPROVED EQUAL.

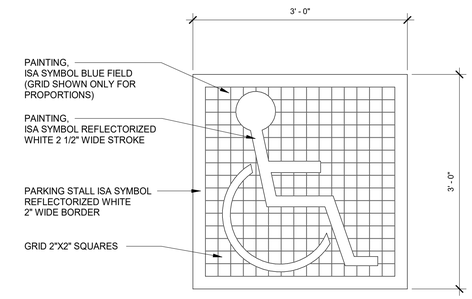
F8 | CAST-IN-PLACE CONCRETE, Truncated Domes

6" = 1'-0"



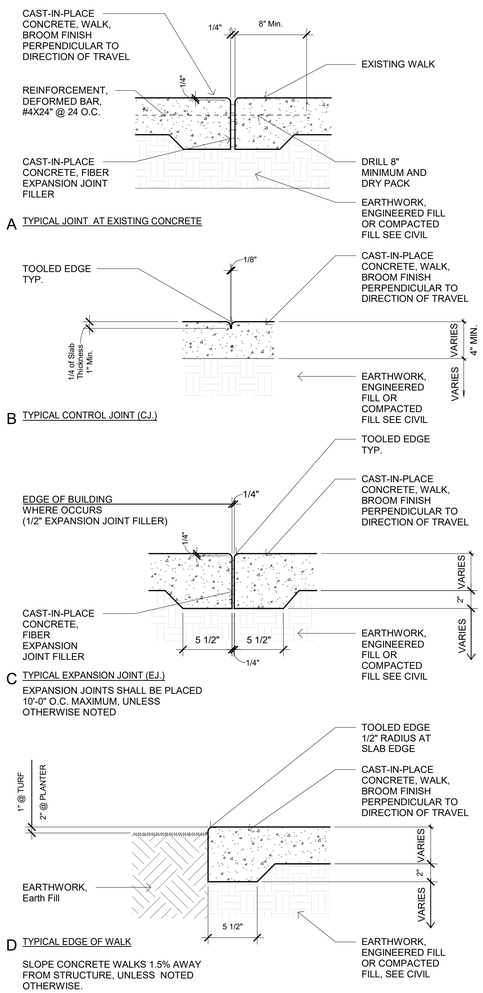
A8 | STEEL AND FABRICATION, REMOVABLE BOLLARD

1 1/2" = 1'-0"



J12 | PAVMENT, ISA SYMBOL @ PARKING STALL

1" = 1'-0"



A12 | CAST-IN-PLACE CONCRETE, WALKS

1 1/2" = 1'-0"

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

SITE DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A10.02

CONSTRUCTION DOCUMNENTS

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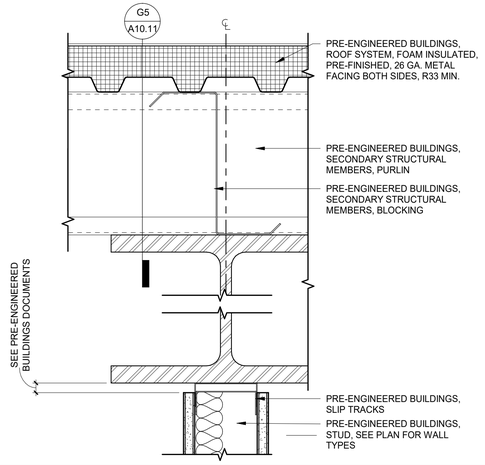
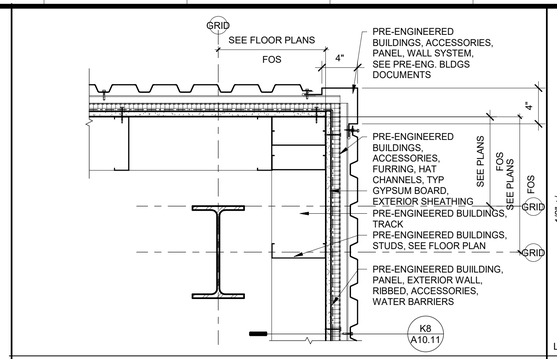
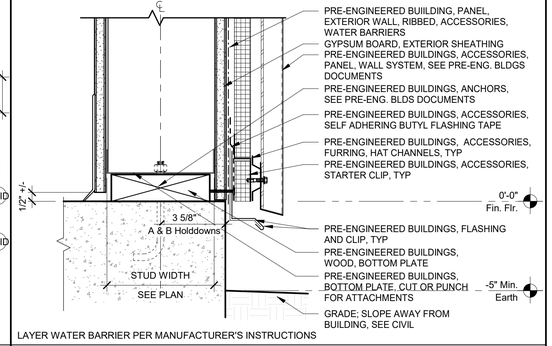


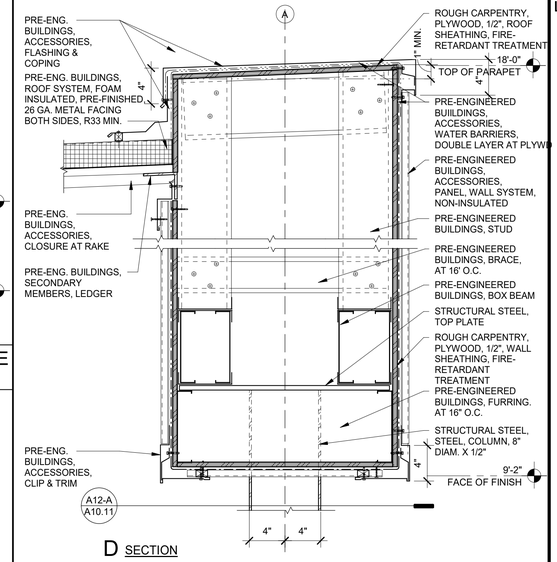
J1 | PRE-ENG. BUILDINGS, INTERIOR WALL SECTION
3" = 1'-0"



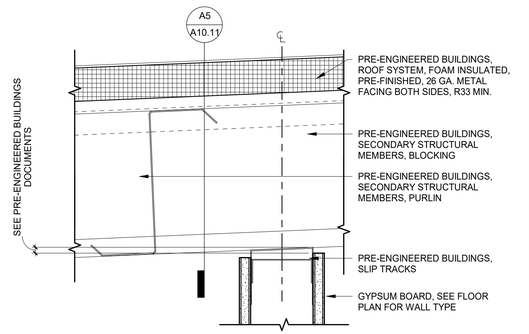
K12 | PRE-ENGINEERED BUILDINGS, OUTSIDE CORNER
1 1/2" = 1'-0"



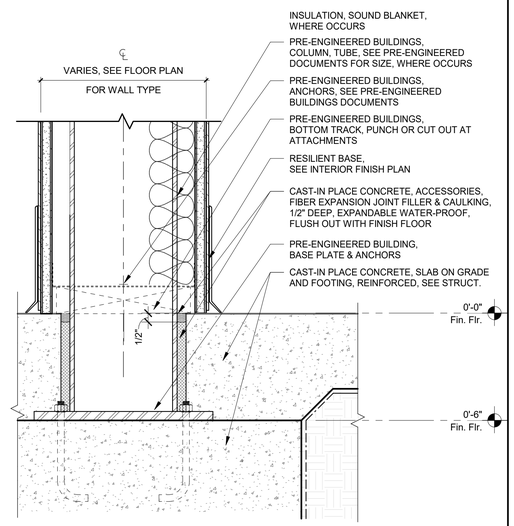
K8 | CAST-IN-PLACE CONCRETE, WALL SILL AT GRADE
3" = 1'-0"



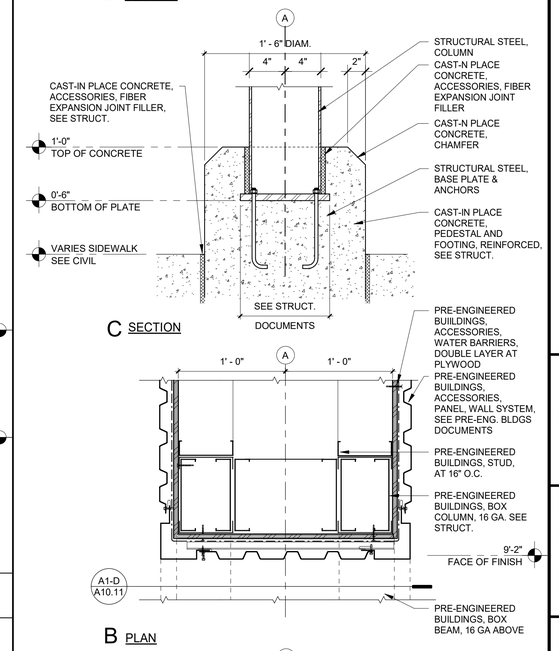
D SECTION



G5 | PRE-ENG. BUILDINGS, INTERIOR WALL SECTION
3" = 1'-0"

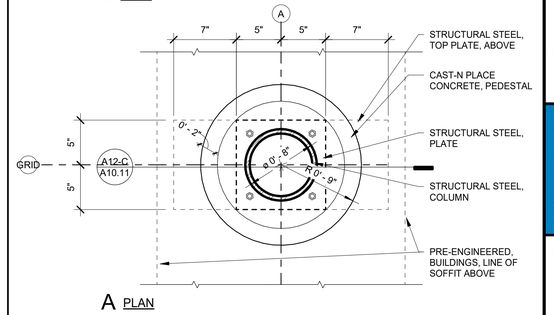


D8 | CAST-IN-PLACE CONC., INTERIOR COLUMN
3" = 1'-0"



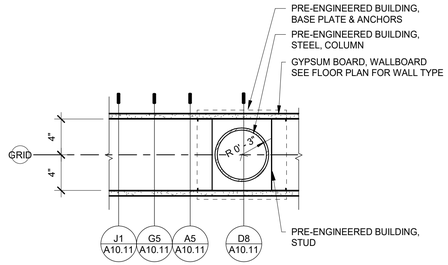
C SECTION

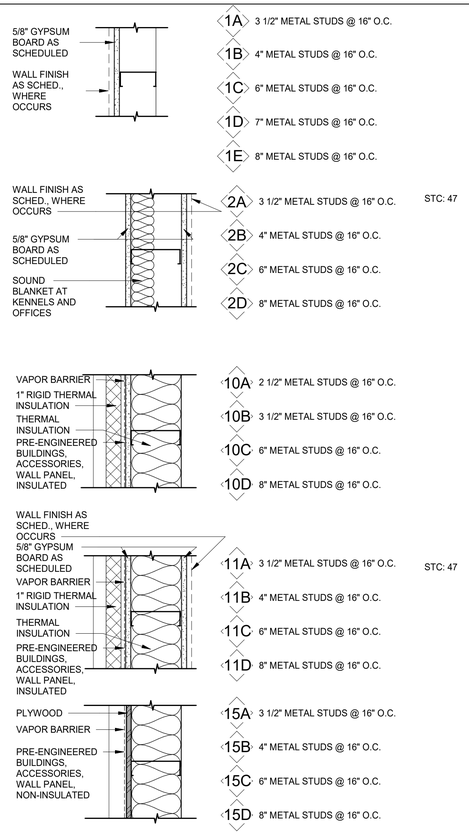
B PLAN



A PLAN

A12 | ADMINISTRATION ENTRY COLUMN
1 1/2" = 1'-0"

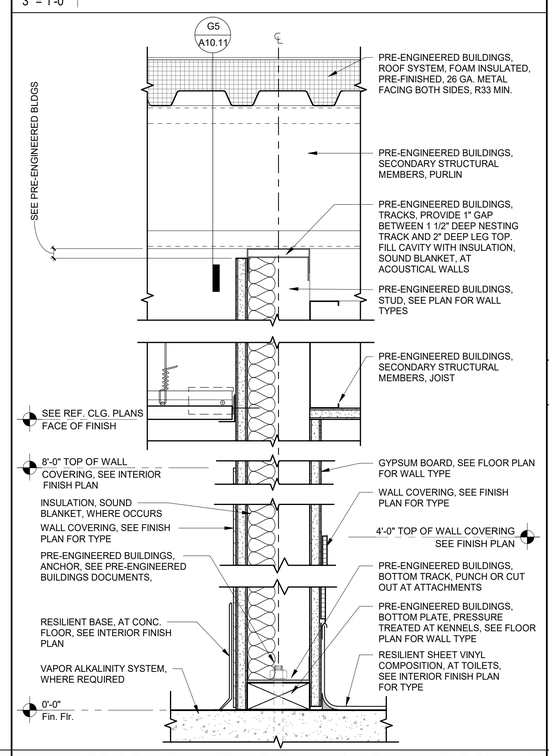




NOTES:

1. ALL WALL TYPES INDICATED ABOVE ARE FOR TYPICAL CONDITIONS.
2. REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR SPECIAL CONDITIONS.
3. VERIFY ALL WALL THICKNESSES FOR DOOR JAMBS AND SPECIAL CONDITIONS.
4. WHERE CERAMIC TILE SYSTEMS ARE DESIGNATED, REFER TO THE FINISH FLOOR PLAN AND SPECIFICATION SECTION FOR THE APPROPRIATE CERAMICE TILE SYSTEM.
5. PROVIDE A CONTINUOUS THERMAL BLANKET INSULATION AT ALL WALLS DESIGNATED AS EXTERIOR WALLS. REFER TO THE SPECIFICATION SECTION FOR THE INSULATION TYPE AND LOCATION FOR INSTALLATION.
6. PROVIDE A CONTINUOUS SOUND BLANKET AT WALLS DESIGNATED AS INTERIOR WALLS WHERE INSULATION IS INDICTED AS PART OF ASSEMBLY
7. TYPICAL DIMENSIONS ARE TAKEN FROM FACE OF STUDS OR CENTERLINES OF COLUMNS OR GRID LINES, AS SHOWN ON DRAWINGS UNLESS NOTED OTHERWISE.
8. REFER TO PRE-ENGINEERED BUILDING FOR METAL STUD GAUGES AND LENGTHS.

A1 | WALL TYPES
1 1/2" = 1'-0"



A5 | PRE-ENG. BUILDINGS, INTERIOR WALL SECTION
3" = 1'-0"

Legend

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
WALL DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:
A10.11

CONSTRUCTION DOCUMNENTS

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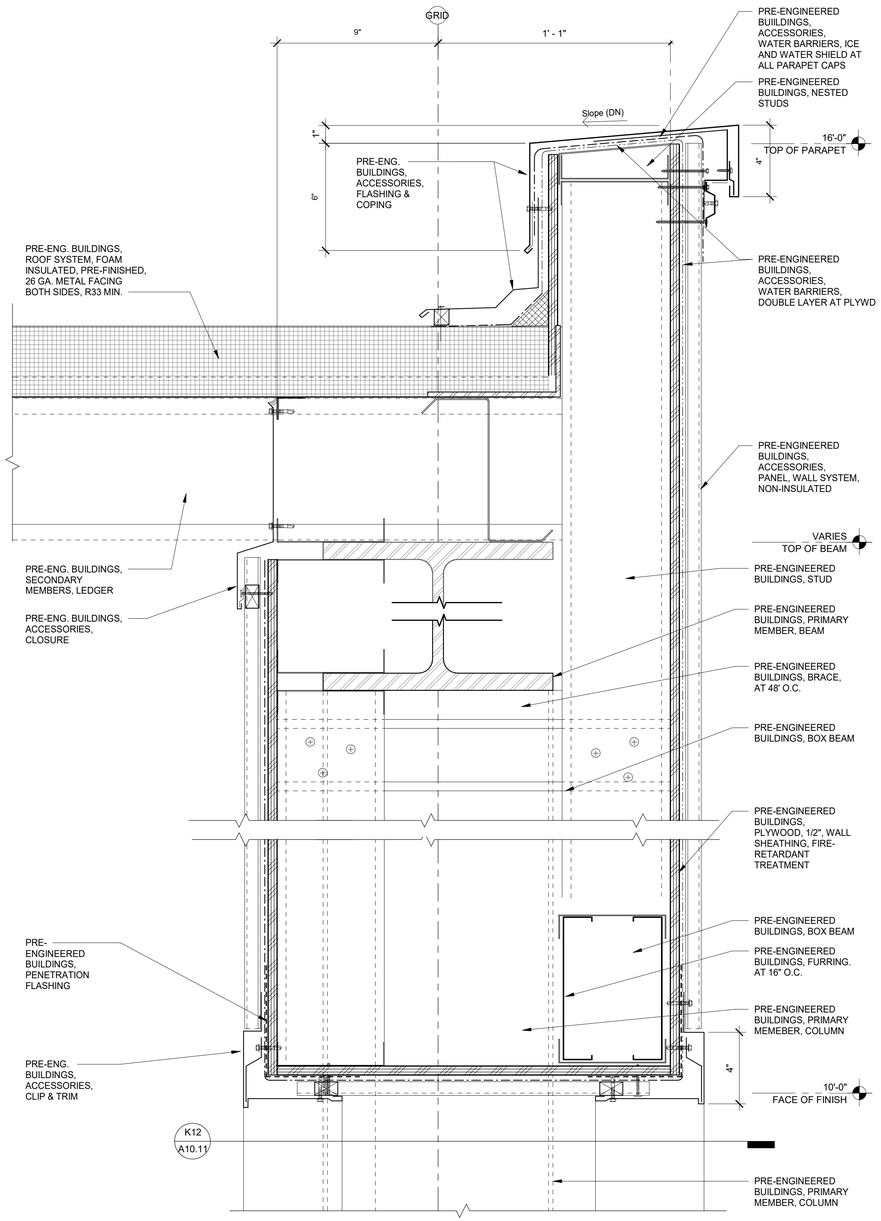
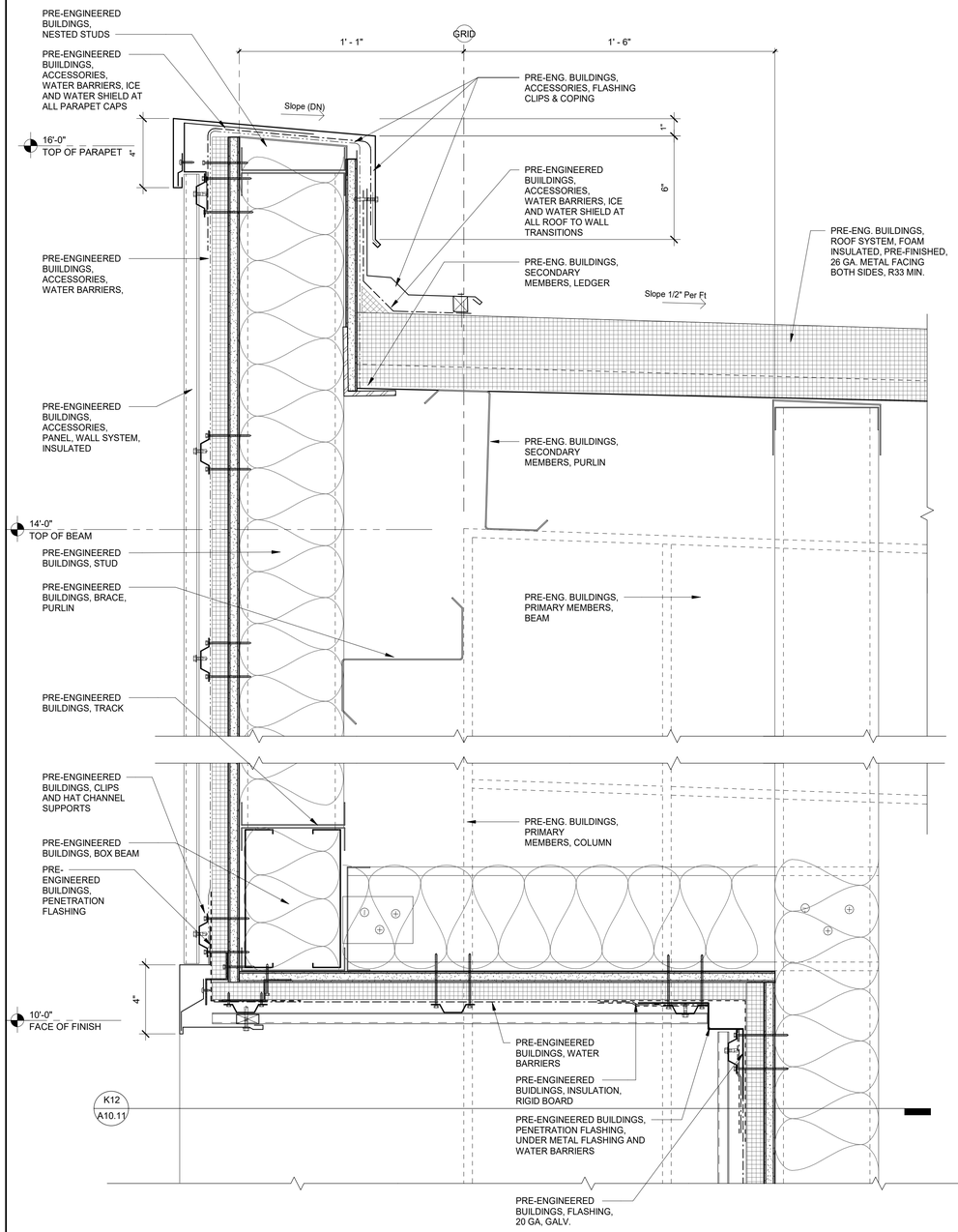


A5
3" = 1'-0"
PRE-ENGINEERED BUILDINGS, BOX BEAM



A12
3" = 1'-0"
PRE-ENGINEERED BUILDINGS, BOX BEAM

Legend

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

WALL DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A10.12

CONSTRUCTION DOCUMNENTS

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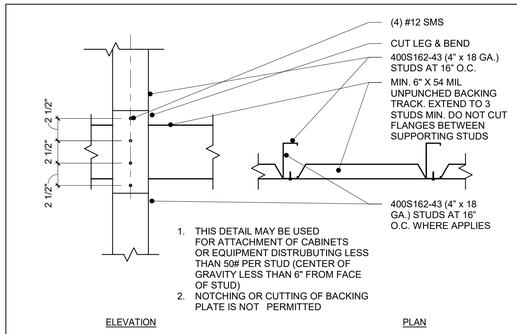
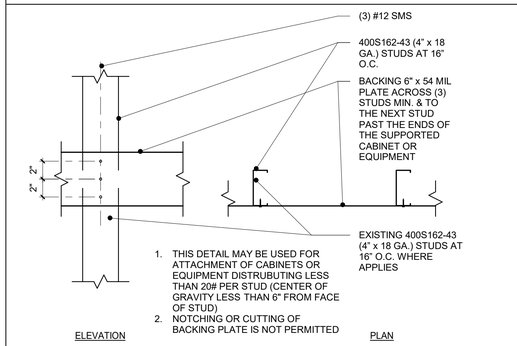


D12 | MTL STUD BACKING
1 1/2" = 1'-0"



A12 | MTL STUD BACKING
1 1/2" = 1'-0"

Legend

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

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190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

WALL DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

A10.13

CONSTRUCTION DOCUMNENTS

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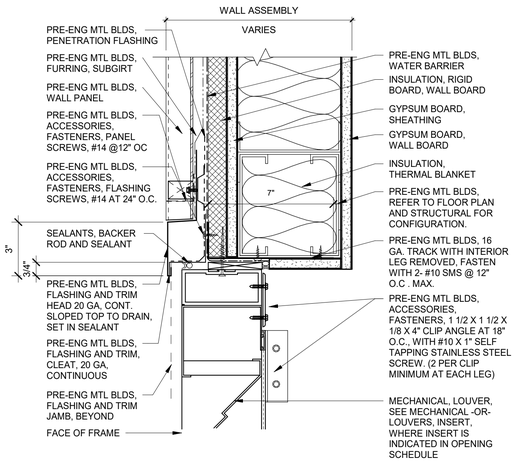
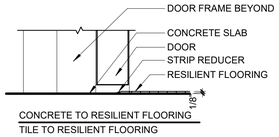
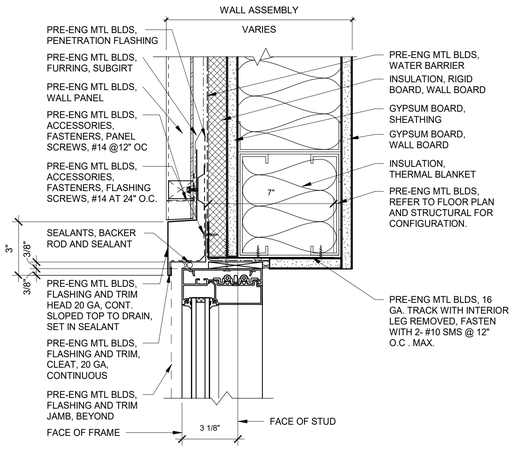


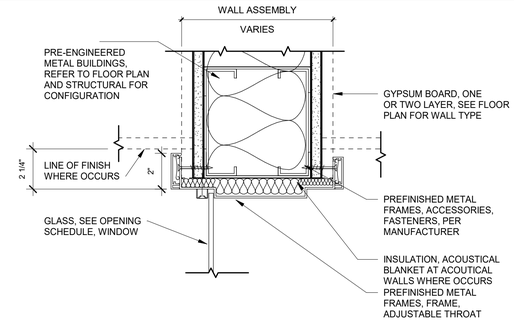
G1 | STOREFRONT, HEAD
3" = 1'-0"



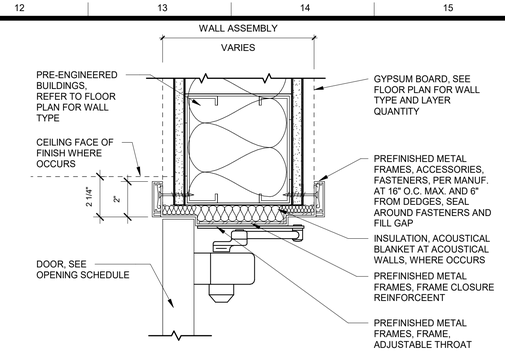
L4 | FLOORING TRANSITIONS AT INTERIOR
3" = 1'-0"



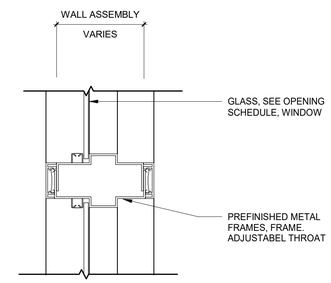
G4 | STOREFRONT, HEAD
3" = 1'-0"



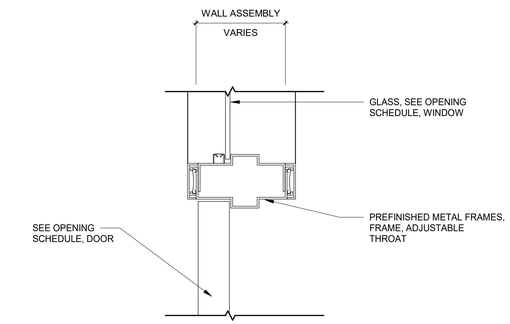
K8 | PREFINISHED METAL FRAMES, HEAD AT INTERIOR WINDOW
3" = 1'-0"



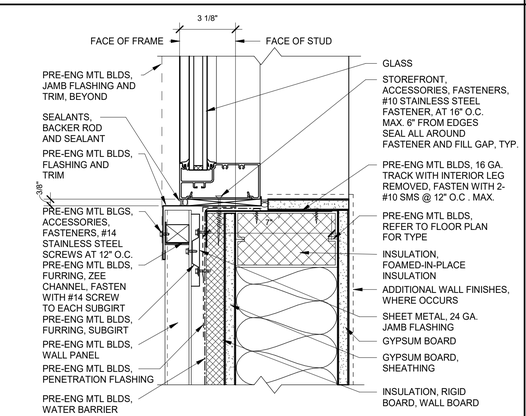
K12 | PREFINISHED METAL FRAMES, HEAD AT INTERIOR DOOR
3" = 1'-0"



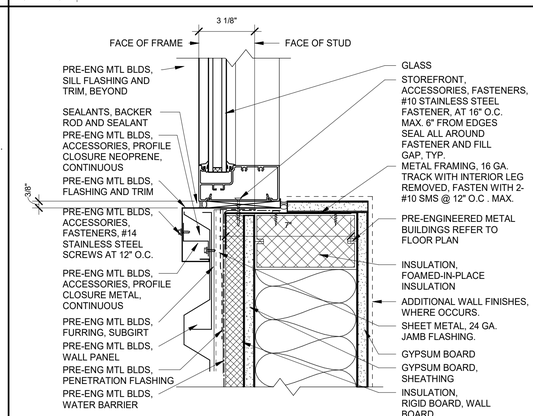
G8 | PREFINISHED METAL FRAMES, JAMB AT INTERIOR WINDOW
3" = 1'-0"



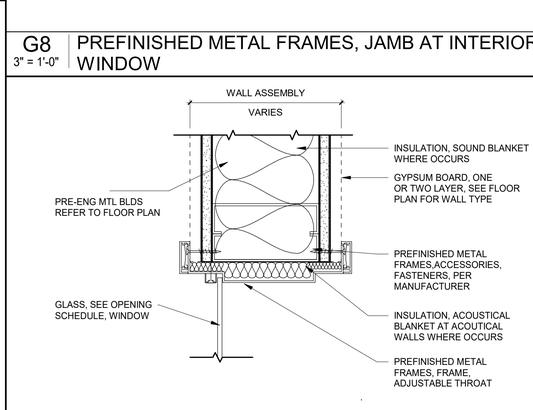
G12 | PRE-FINISHED METAL FRAMES, JAMB AT INTERIOR DOOR
3" = 1'-0"



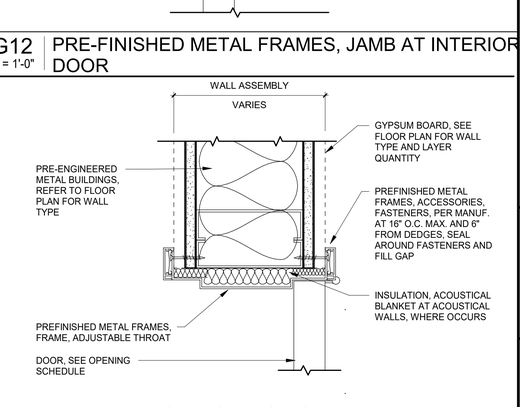
D1 | STOREFRONT, SILL AT METAL PANEL
3" = 1'-0"



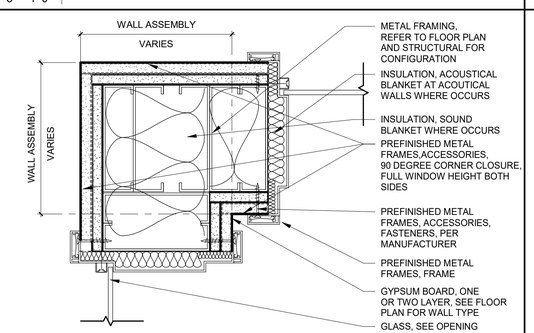
D4 | STOREFRONT, JAMB
3" = 1'-0"



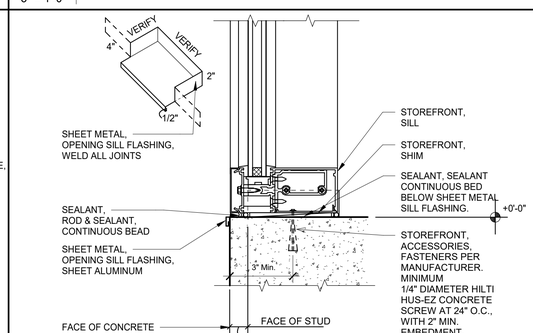
D8 | PREFINISHED METAL FRAMES, JAMB AT INTERIOR WINDOW
3" = 1'-0"



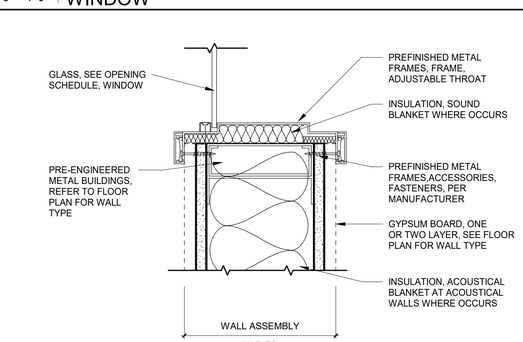
D12 | PREFINISHED METAL FRAMES, JAMB AT INTERIOR DOOR
3" = 1'-0"



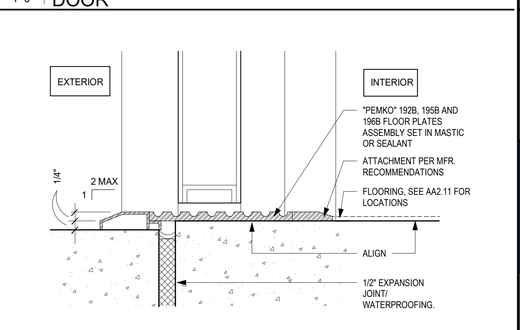
A1 | PRE-FINISHED METAL FRAMES, CORNER
3" = 1'-0"



A4 | STOREFRONT, CURTAIN WALL, SILL
3" = 1'-0"



A8 | PREFINISHED METAL FRAMES, JAMB
3" = 1'-0"



A12 | HARDWARE, THRESHOLD
6" = 1'-0"

ARCHITECT:
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California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

OPENING DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

A10.21

CONSTRUCTION DOCUMNENTS

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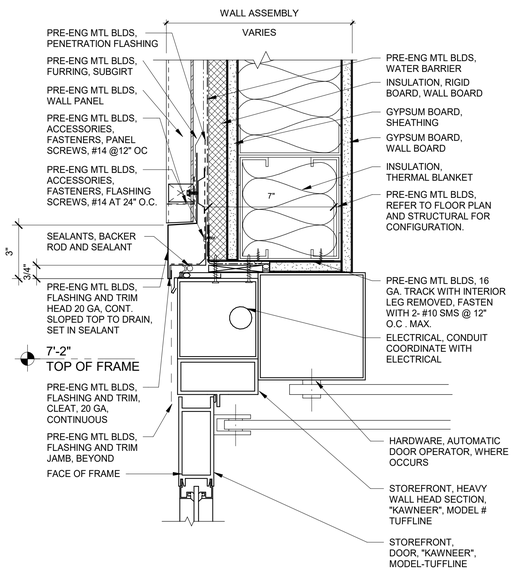
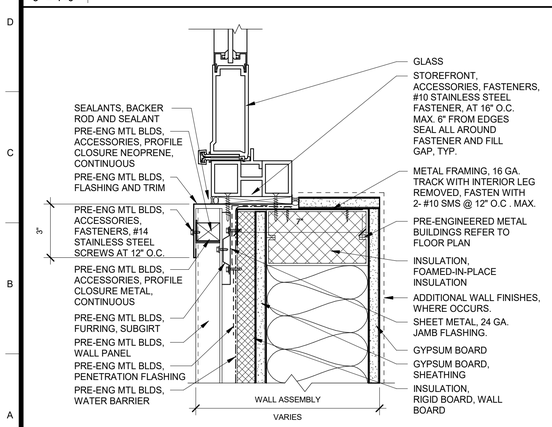
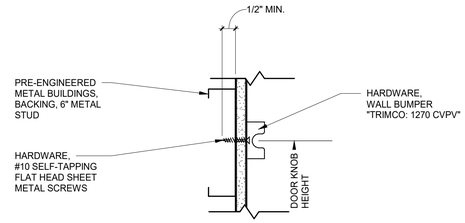


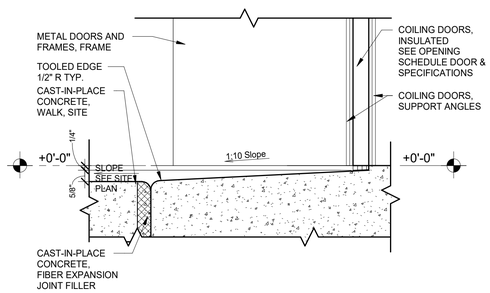
D1 STOREFRONT, HEAD
3" = 1'-0"
REFER TO DETAIL A12 FOR FLASHING ISOMETRIC



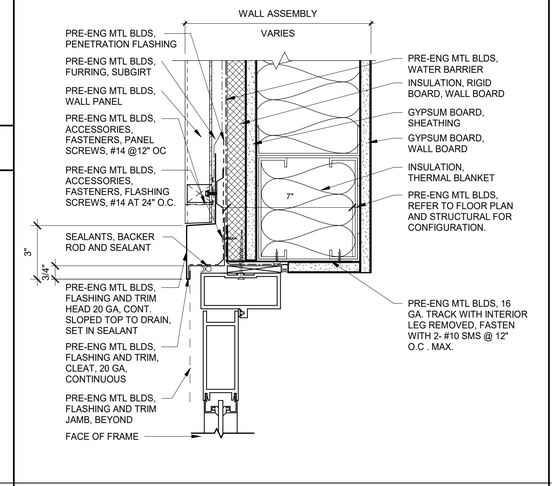
A1 STOREFRONT, JAMB
3" = 1'-0"
REFER TO DETAIL A12 FOR FLASHING ISOMETRIC



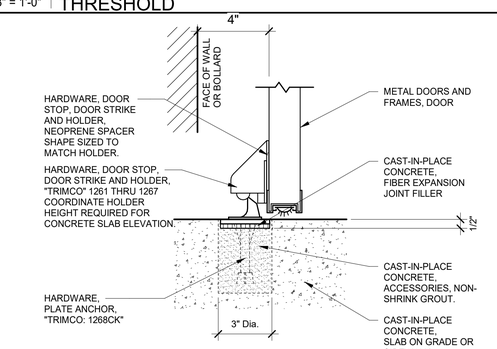
K4 HARDWARE, Door Stop at Exterior & Interior
3" = 1'-0"



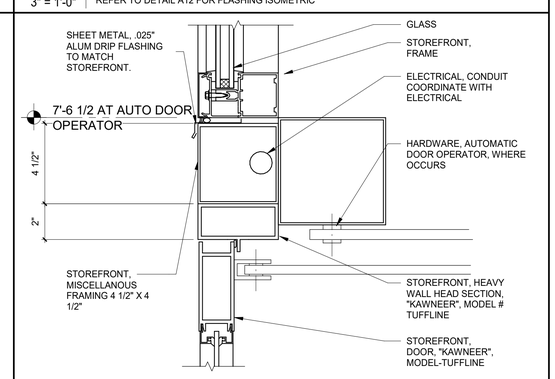
G4 CAST-IN PLACE CONCRETE, COILING DOOR THRESHOLD
3" = 1'-0"



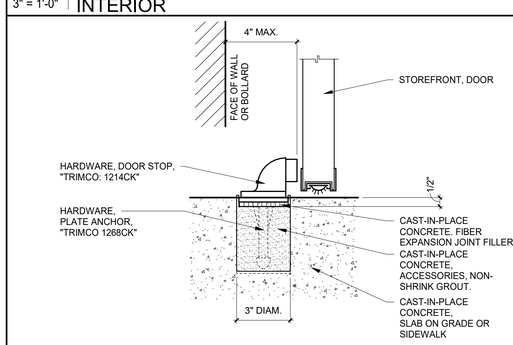
G8 STOREFRONT, HEAD
3" = 1'-0"
REFER TO DETAIL A12 FOR FLASHING ISOMETRIC



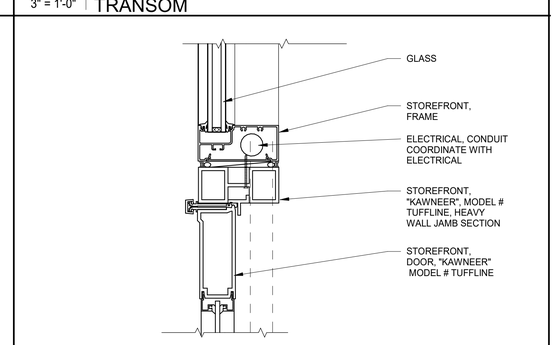
D4 HARDWARE, DOOR STRIKE AT EXTERIOR OR INTERIOR
3" = 1'-0"



D8 STOREFRONT, HEAD AT EXTERIOR DOOR / TRANSOM
3" = 1'-0"



A4 HARDWARE, DOOR STOP AT EXTERIOR & INTERIOR
3" = 1'-0"



A8 STOREFRONT, JAMB AT STOREFRONT EXTERIOR DOOR / SIDELITE SIDE
3" = 1'-0"

ARCHITECT:
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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
OPENING DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:
A10.22

CONSTRUCTION DOCUMNENTS

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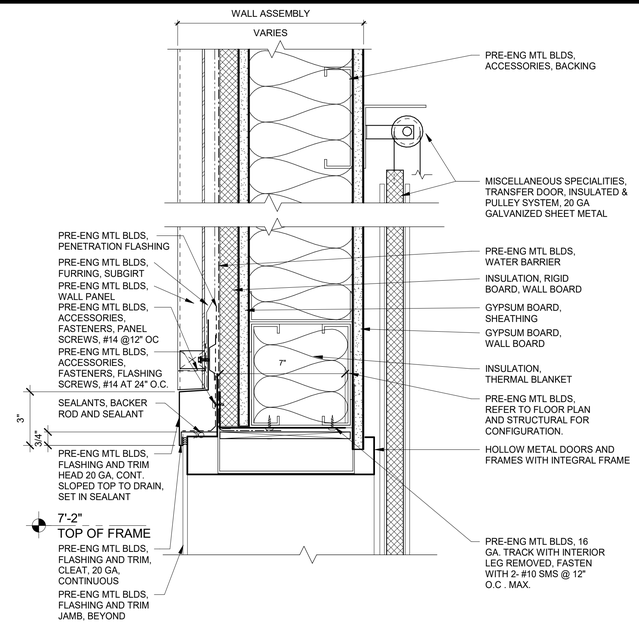
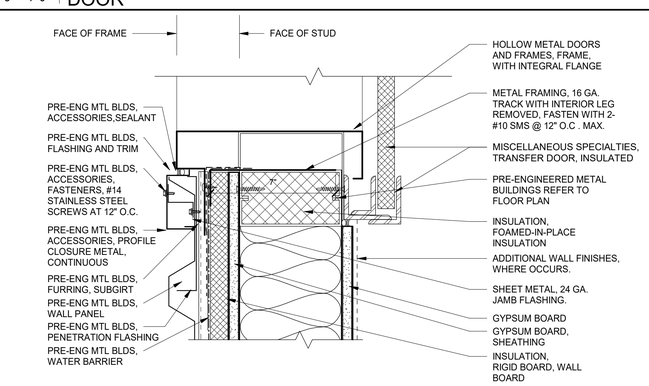
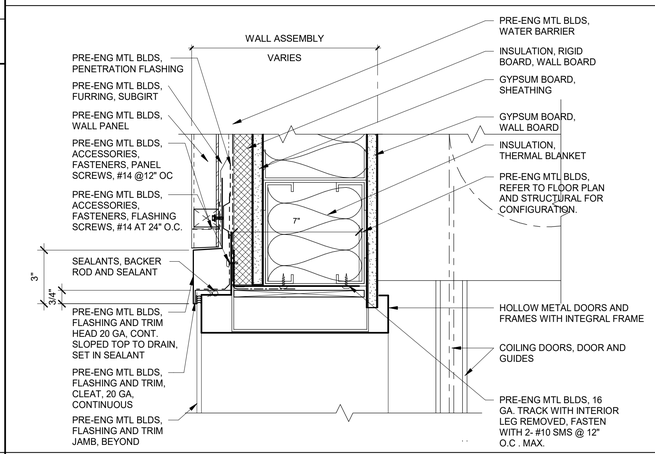


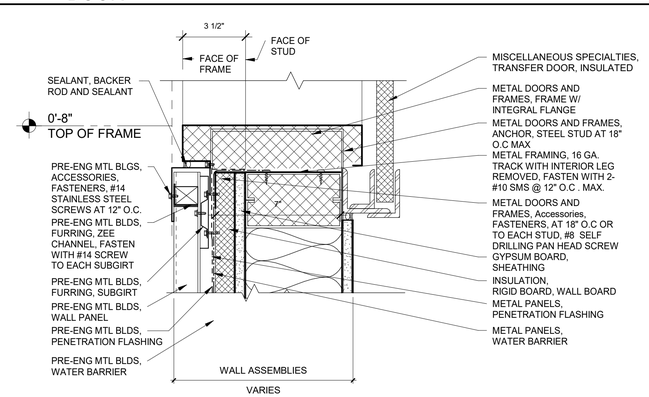
H6 | METAL DOORS AND FRAMES, HEAD AT TRANSFER DOOR
3" = 1'-0"



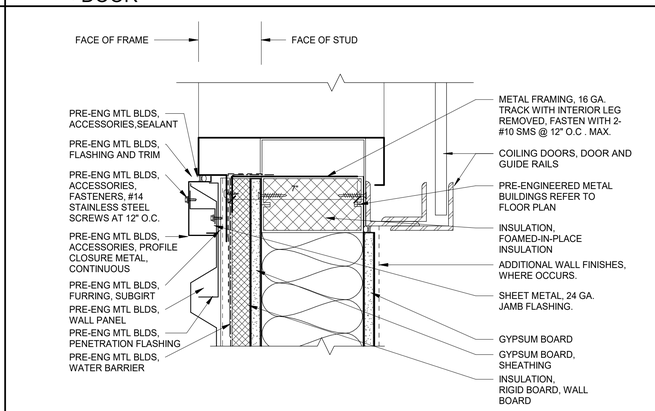
D6 | METAL DOORS AND FRAMES, JAMB AT TRANSFER DOOR
3" = 1'-0"



D12 | METAL DOORS AND FRAMES, HEAD AT COILING DOOR
3" = 1'-0"



A6 | METAL DOORS AND FRAMES, SILL AT TRANSFER DOOR
3" = 1'-0"



A12 | METAL DOORS AND FRAMES, JAMB AT EXTERIOR
3" = 1'-0"

Hardware Groroup - 1	Quantity	Rating	Operation	Material	Finish	Pins	Attachment	Lock Cylinder	Comment
Hinges	3 Pair	Heavy Duty	Ball Bearing	Stainless Steel	Polished	Non-removable			
Lock Set/Strike	1	Heavy Duty	Lever Handle	Stainless/Chrome	Polished		Tamper Proof	Builder Keyed	
Dead Bolt	1	Heavy Duty	Key Both Sides	Stainless/Chrome	Polished		Tamper Proof	Builder Keyed	
Closer	1	Heavy Duty	Pneumatic	Aluminum	Polished				
Threshold	1			Aluminum	Polished		Conc. Sleeve		ADA Compliant
Wheather Strip	1		3 Side Seal	Neoprene					
Sweep	1			Aluminum / Fiber	Polished		Door Bottom		Saddle

Hardware Group - 2	Quantity	Rating	Operation	Material	Finish	Pins	Attachment	Lock Cylinder	Comment
Hinges	3 Pair	Heavy Duty	Ball Bearing	Steel	Satin	Non-removable			
Lock Set/Strike	1	Heavy Duty	Lever Handle	Steel	Satin		Tamper Proof	Builder Keyed	
Dead Bolt	1	Heavy Duty	Key Both Sides	Chrome	Satin		Tamper Proof	Builder Keyed	
Closer	1	Heavy Duty	Pneumatic	Chrome	Satin				
Silencer	1			Vinyl	Clear				

Hardware Group - 2	Quantity	Rating	Operation	Material	Finish	Pins	Attachment	Lock Cylinder	Comment
Hinges	3 Pair	Heavy Duty	Ball Bearing	Steel	Satin	Non-removable			
Lock Set/Strike	1	Heavy Duty	Lever Handle	Steel	Satin		Tamper Proof	Builder Keyed	
Dead Bolt	1	Heavy Duty	Key Both Sides	Chrome	Satin		Tamper Proof	Builder Keyed	
Silencer	1			Vinyl	Clear				
Push Plates (both sides)	2			Steel	Satin				

A4 | HARDWARE SPECIFICATIONS
12" = 1'-0"

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

OPENING DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

A10.23

CONSTRUCTION DOCUMNENTS

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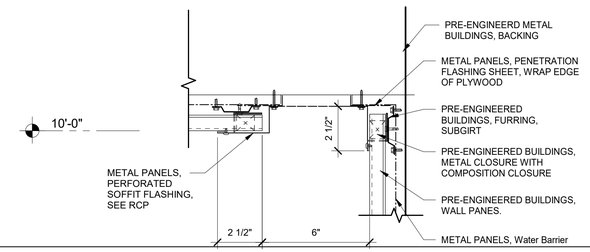
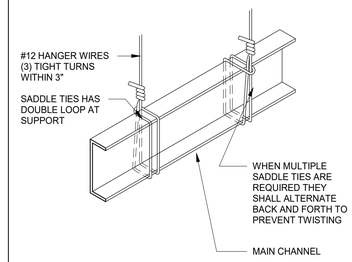
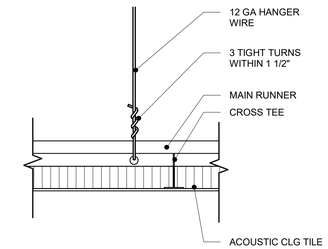


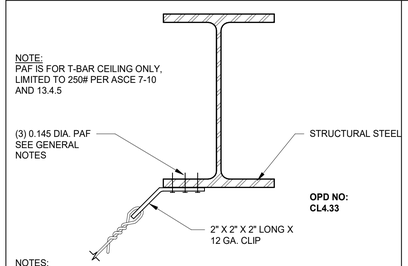
K4 | METAL PANELS, SOFFIT VENT
3" = 1'-0"



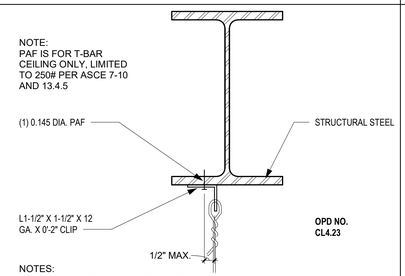
K10 | SADDLE TIE SUPPORT CHANNEL
6" = 1'-0"



K13 | HANGER WIRE TO CEILING GRID
3" = 1'-0"



G4 | BRACE WIRE AT STRUCTURAL STEEL
3" = 1'-0"



G7 | HANGER WIRE AT STRUCTURAL STEEL
3" = 1'-0"

COMPRESSION STRUT CALCULATION:
SINCE THE MAXIMUM SLENDERNESS RATIO (KL/R) IS 200, THE RESULTING EULER BUCKLING STRESS, DIVIDED BY A FACTOR OF SAFETY OF 23/12 IS: Fa= 12(π2/)29e6(1.33))/23(2002/))=4970 PSI

THE FOLLOWING CALCULATIONS ARE BASED ON DOWN Dx26 CEILING, THE MAXIMUM VERTICAL FORCE IS 274#

USE 1/2"Ø EMT FOR MAXIMUM LENGTH 4'-0"

A=0.088² IN² R =0.238 INL-MAX=200(0.238)=47.6"
Fa=274#/0.088 IN² =3114 PSI

USE 3/4"Ø EMT FOR MAXIMUM LENGTH 5'-2"

A=0.134² INR =0.309 INL-MAX=200(0.309)=61.8"
Fa=274#/0.134 IN² =2045 PSI

USE 1"Ø EMT FOR MAXIMUM LENGTH 6'-6"

A=0.198² INR =0.392 INL-MAX=200(0.392)=78.4"
Fa=274#/0.198 IN² =1384 PSI

USE 1 1/2"Ø EMT FOR MAXIMUM LENGTH 8'-6"

A=0.295² INR =0.511 INL-MAX=200(0.511)=102.2"
Fa=274#/0.295 IN² =929 PSI

USE 1 1/2"Ø EMT FOR MAXIMUM LENGTH 9'-11"

A=0.342² INR =0.593 INL-MAX=200(0.593)=118.6"
Fa=274#/0.342 IN² =801 PSI

USE 1 5/8"x25 GA MTL STUD FOR MAXIMUM LENGTH 7'-2"

A=0.078² INR_x =0.430 IN L-MAX=200(0.430)=86.0"
Fa=274#/0.078 IN² =3513 PSI

USE DBL 1 5/8"x25 GA SS MTL STUD MAXIMUM LENGTH 16'-10"

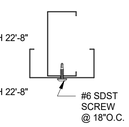
A=0.078² INR_x =0.686 IN L-MAX=200(0.686)=137.2"
Fa=274#/0.078 IN² =3513 PSI

USE DBL 2 1/2"x25 GA SS MTL STUD FOR MAXIMUM LENGTH 22'-8"

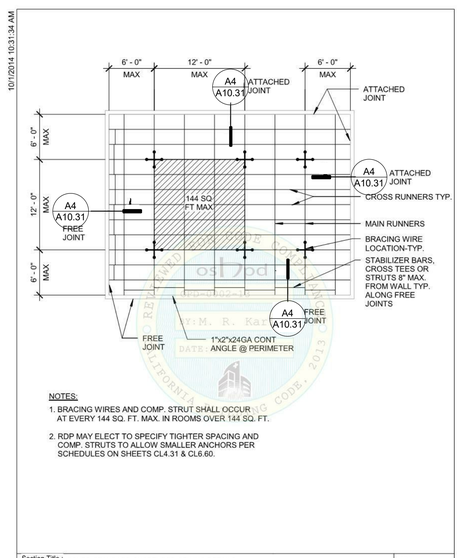
A=0.094² INR_x =1.011 IN L-MAX=200(1.011)=202.2"
Fa=274#/0.094 IN² =2915 PSI

USE DBL 3 1/2"x25 GA SS MTL STUD FOR MAXIMUM LENGTH 22'-8"

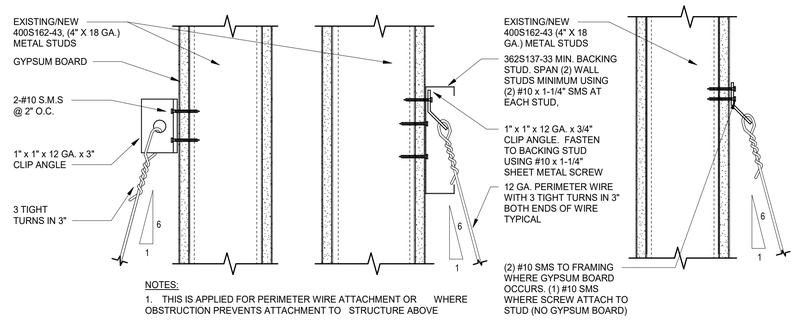
A=0.113² INR_x =1.359 INL-MAX=200(1.359)=271.8"
Fa=274#/0.113 IN² =2425 PSI



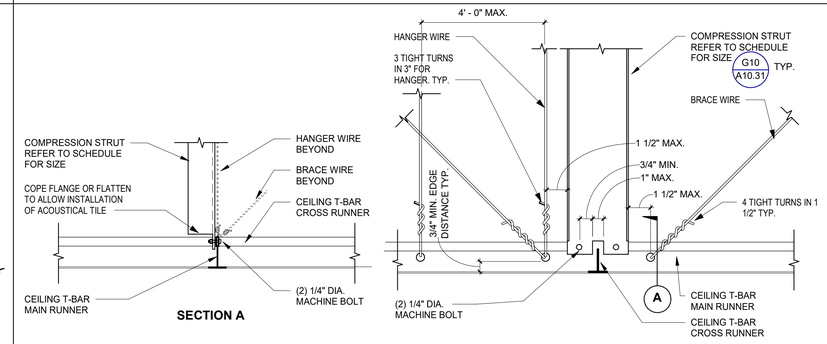
G10 | COMPRESSION STRUT SCHEDULE
3" = 1'-0"



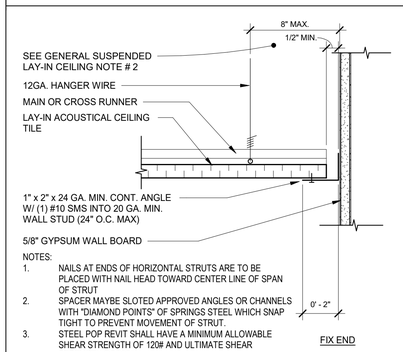
A1 | ACOUSTICAL CEILING - SUSPENSION SYSTEM
12" = 1'-0"

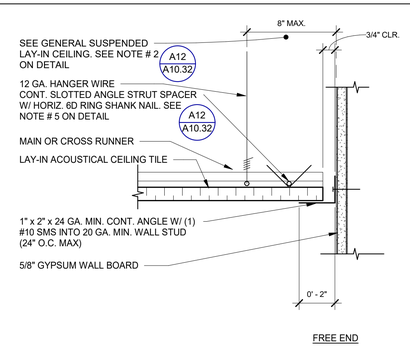


D4 | HANGER WIRE CONNECTION TO METAL STUDS
3" = 1'-0"

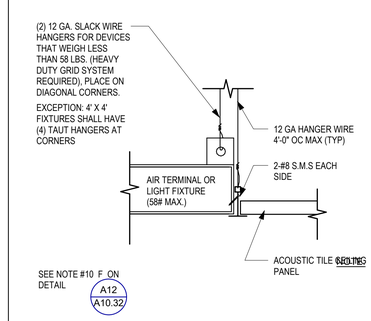


D10 | METAL STUD COMPRESSION STRUT AT ACOUSTICAL CEILINGS
3" = 1'-0"

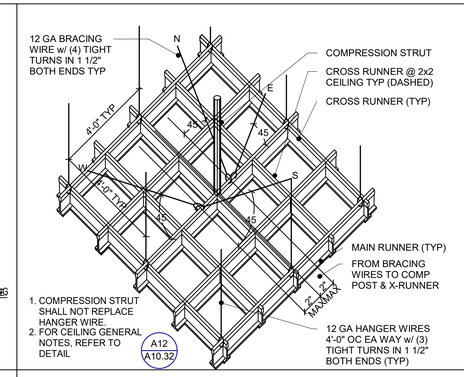




A4 | CEILING PERIMETER DETAILS
3" = 1'-0"



A10 | LIGHT FIXTURES/AIR TERMINAL
1 1/2" = 1'-0"



A13 | SUSPENDED T-BARCEILING
3" = 1'-0"

ARCHITECT:
Noel Rogier Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

CEILING CONNECTIONS AND DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A10.31

CONSTRUCTION DOCUMNENTS

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THE TOTAL WEIGHT OF THE CEILING SYSTEM, INCLUDING AIR CONDITIONING GRILLES AND LIGHT FIXTURES, SHALL NOT EXCEED FOUR (4) POUNDS PER SQUARE FOOT. INSTALLATION SHALL COMPLY WITH THE FOLLOWING:

(1) 12 GAUGE MINIMUM HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.

(2) PROVIDE 12 GAUGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" OF THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.

(3) PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.

(4) CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE FREE AND AT LEAST 3/4" CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

(5) AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A CONT. SLOTTED ANGLE STRUT SPACER WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

(6) PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) 12 GAUGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
A) FOR ESSENTIAL SERVICES BUILDINGS, PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 8'-0" X 12'-0" ON CENTER.

(C) PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN ONE HALF (1/2) THE SPACINGS GIVEN ABOVE, FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS.

(D) THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT TO BE PERMITTED.

(E) SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO (2) ADJACENT WALLS.

(7) FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN BRACING WIRES WITH NOT LESS THAN FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1-1/2" REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.

(8) SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

(9) NOT USED.

(10) CEILING FIXTURES, TERMINALS, AND DEVICES.

A) CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES.
B) ALL FIXTURES SHALL BE MOUNTED IN A MANNNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
C) ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENTENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXTURE WEIGHT ACTING IN ANY DIRECTION. MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE.
D) SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH MINIMUM 14 GA. A NO. 12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CALMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.
E) ALL FIXTURES, WEIGHING LESS THAN OR EQUAL 10 LBS. SHALL HAVE ONE #12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
F) ALL FIXTURES, WEIGHING GREATER THAN 10 LBS. BUT LESS THAN OR EQUAL 58 LBS. SHALL HAVE TWO #12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
G) ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MIN. OF TWO #12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELLING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURES SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

(11) ACOUSTICAL CEILING GRID SYSTEM DESIGN BASED ON ARMSTRONG PRELUDE XL SYSTEM. MAIN RUNNER SPLICES AND CROSS RUNNER INTERSECTIONS SHALL BE MECHANICAL INTERLOCKING CONNECTIONS. CLASSIFICATION OF CEILING GRID SYSTEM IS HEAVY DUTY (16 LBS./LIN. FT. MIN.). MANUFACTURER'S CATALOG NUMBERS: MAIN RUNNER - 200 (7301),CROSS RUNNER - 4'-0" - 1204 (XL8341).CROSS RUNNER - 2'-0" - 1229 (XL7328).

(12) PRIOR TO THE INSTALLATION OF MECHANICAL, PLUMBING, ELECTRICAL AND OTHER EQUIPMENT SHARING INTERSTITIAL OR ATTIC SPACE, THE GENERAL CONTRACTOR SHALL COORDINATE HIS WORK AND THE WORK OF ALL SUBCONTRACTORS USING THIS SPACE FOR THE INSTALLATION OF EQUIPMENT AND OTHER BUILDING COMPONENTS TO INSURE ALL COMPONENTS FIT IN THE SPACE AVAILABLE.

(13) ALL SUSPENDED LAY-IN ACOUSTICAL TILE CEILING GRID SYSTEMS SHALL BE CENTERED IN SPACES AS SHOWN UNLESS NOTED OTHERWISE BY DIMENSION.

(14) MECHANICAL GRILLES AND LIGHT FIXTURES ARE SHOWN FOR LOCATION ONLY. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR TYPES AND SIZES.

(15) ALL REQUIRED ACCESS PANELS MAY NOT BE SHOWN ON THE ARCHITECTURAL CEILING PLANS. PROVIDE ACCESS PANELS AT HARD CEILINGS WHERE REQUIRED TO ACCESS CONCEALED FIRE DAMPERS, PLUMBING CONTROLS, MECHANICAL CONTROLS, ELECTRICAL BOXES AND OTHER EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE QUANTITY, SIZE AND LOCATION OF REQUIRED ACCESS PANELS WITH ALL SUBCONTRACTORS.

(16) SMOKE DETECTOR LOCATIONS (WHERE REQUIRED) SHALL BE COORDINATED WITH THE ARCHITECT.

A12 ACOUSTICAL CEILING T-BAR NOTES

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

CEILING DETAILS

Project No: T80310 **Date:** 6/29/2020

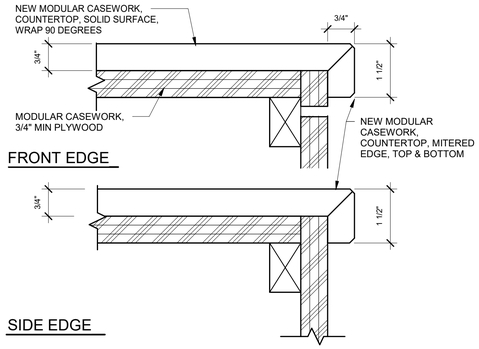
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

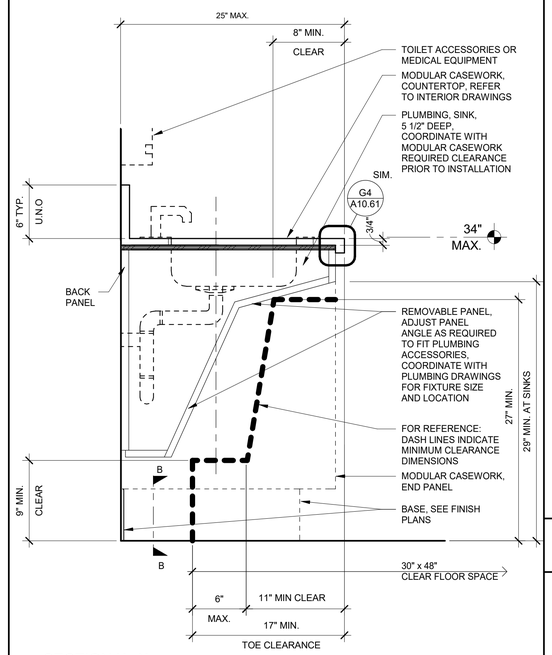
Sheet No:

A10.32

CONSTRUCTION DOCUMNENTS



G4 | MODULAR CASEWORK, COUNTERTOP, SOLID STOCK EDGES
6" = 1'-0"



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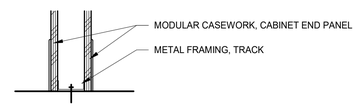

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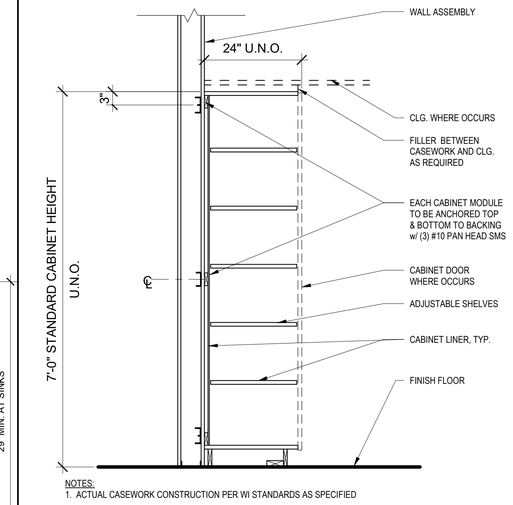
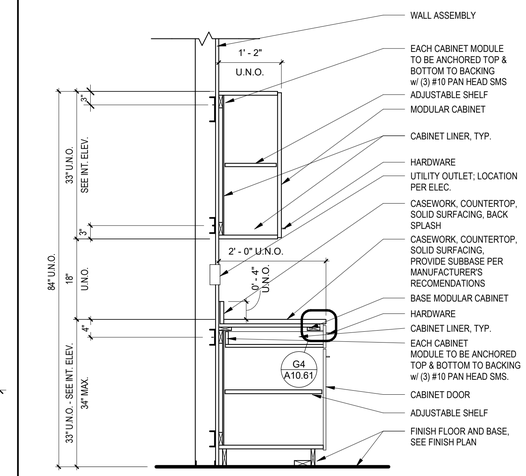


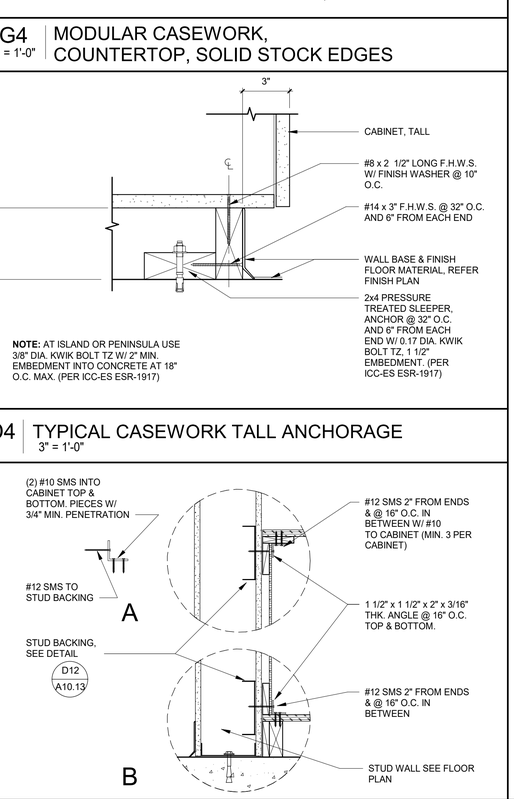
NOTES:
1. ACTUAL CASEWORK CONSTRUCTION PER WI STANDARDS AS SPECIFIED

H12 | TALL CABINET ANCHORAGE
3/4" = 1'-0"

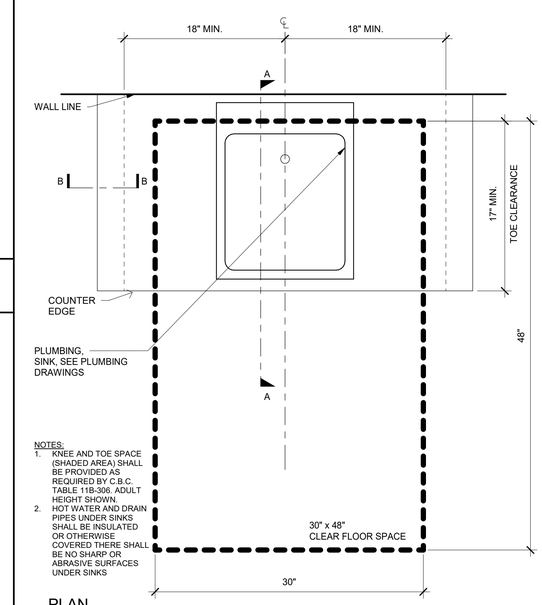


NOTES:
1. ACTUAL CASEWORK CONSTRUCTION PER WI STANDARDS AS SPECIFIED

C12 | TYP EXISTING BASE & UPPER CABINET
3/4" = 1'-0"



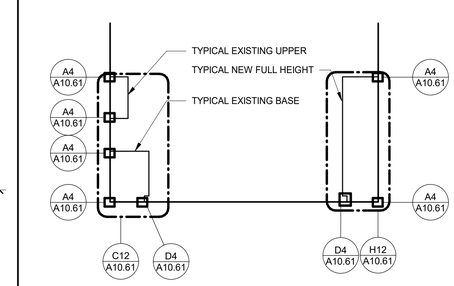
A4 | TYPICAL CASEWORK CONNECTION
1 1/2" = 1'-0"



NOTES:
1. KNEE AND TOE SPACE (SHADED AREA) SHALL BE PROVIDED AS REQUIRED BY C.B.C. TABLE 11B-306. ADULT HEIGHT SHOWN.
2. HOT WATER AND DRAIN PIPES UNDER SINKS SHALL BE INSULATED OR OTHERWISE COVERED THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS

PLAN

A8 | MODULAR CASEWORK, ACCESSIBLE SINK (NON-TOILET ROOM)
1 1/2" = 1'-0"



A12 | CASEWORK KEY
1/4" = 1'-0"

ARCHITECT:
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California Licensed Architect No. C-27818
Ren. 10-31-21

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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
CASEWORK DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
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Sheet No:
A10.61

CONSTRUCTION DOCUMNENTS

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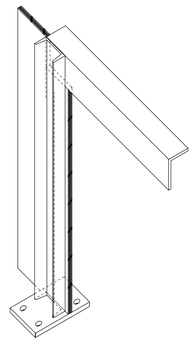
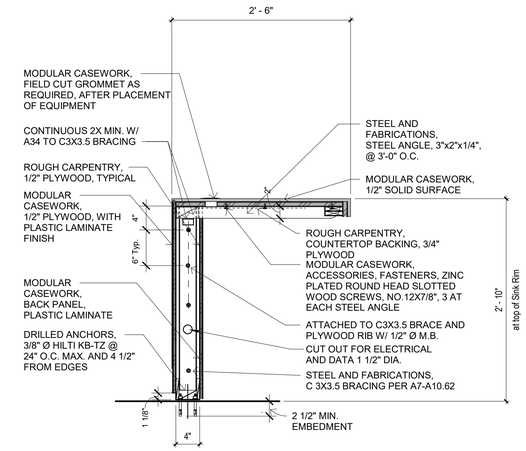
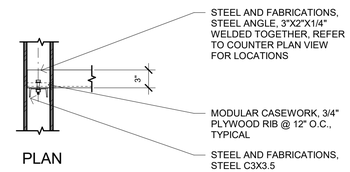


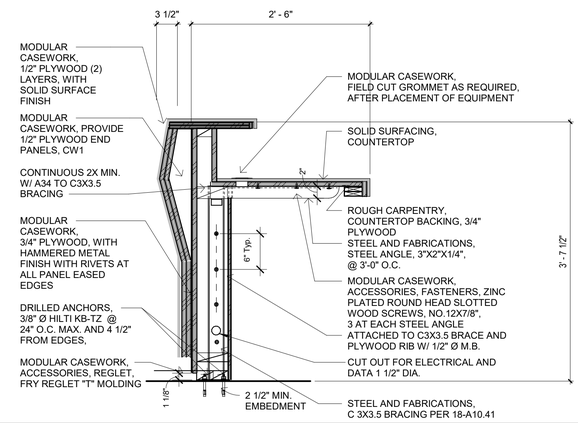
H7 | MISCELLANEOUS FABRICATIONS, COUNTERTOP SUPPORT
1 1/2" = 1'-0"



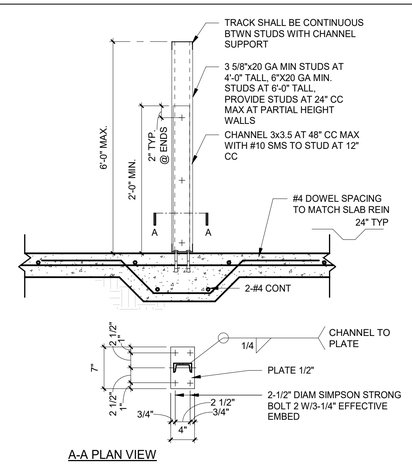
H11 | RECEPTION COUNTER - SECTION
1" = 1'-0"



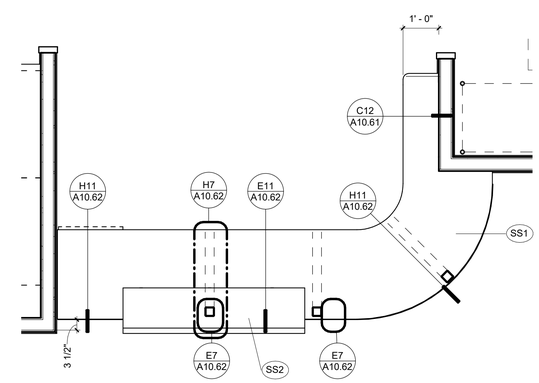
E7 | RECEPTION COUNTER - SUPPORT PLAN
1" = 1'-0"



E11 | RECEPTION COUNTER - SECTION
1" = 1'-0"



A7 | CAST-IN PLACE CONCRETE, FOOTING (INTERIOR)
1" = 1'-0"



A11 | RECEPTION COUNTER PLAN
1/2" = 1'-0"

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

CASEWORK DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A10.62

CONSTRUCTION DOCUMNENTS

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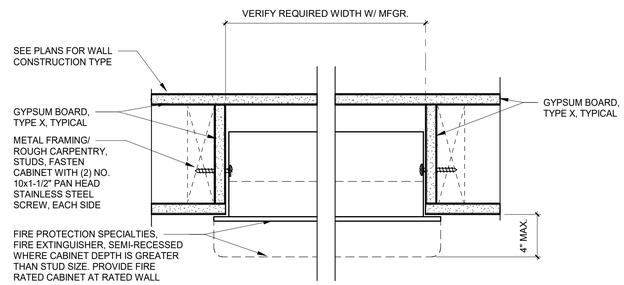
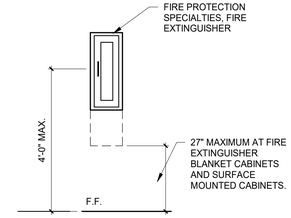


@ NON-RATED WALL

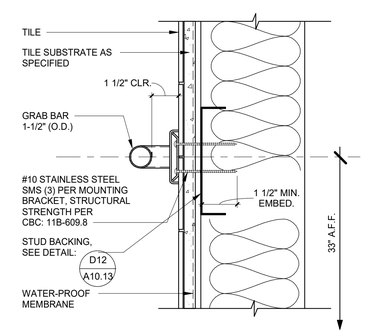


NOTE: PROVIDE SURFACE MOUNT CABINETS AT CONCRETE AND CONCRETE MASONRY WALLS

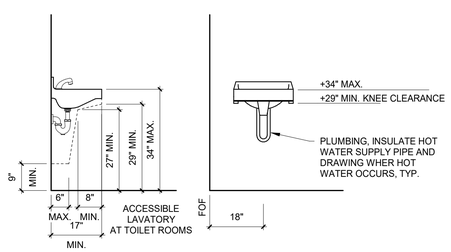
ELEVATION

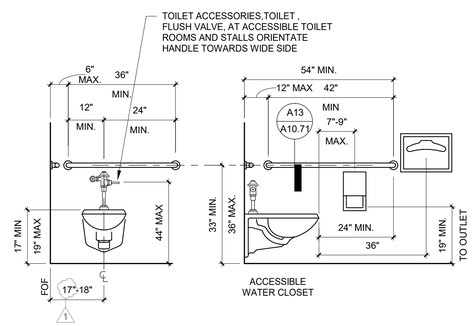
SCALE: 1/2" = 1'-0"

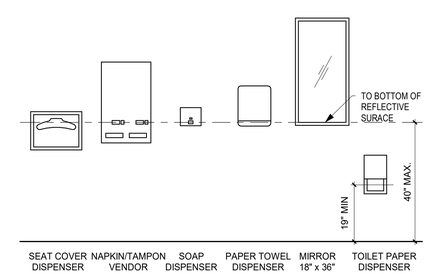
A10 3" = 1'-0" | FIRE PROTECTION SPECIALITIES, FIRE EXTINGUISHERS



A13 3" = 1'-0" | GRAB BAR DETAIL







NOTES:

1. ALL MOUNTING HEIGHTS AND LOCATIONS ARE TYPICAL UNLESS NOTED OTHERWISE.
2. PROVIDE MIN. 30" x 48" CLEAR FLOOR SPACE IN FRONT OF ACCESSORY TO ALLOW FORWARD OR PARALLEL APPROACH. HIGHEST OPERABLE PART AT MAX 40" AFF
3. FIXTURES SHALL BE FULLY RECESSED OR SEMI-RECESSED WITH A MAX 3" PROJECTION.
4. FLUSH VALVE TO BE LOCATED TO THE WIDE SIDE OF COMPARTMENT.
5. DIMENSION SHOWN ARE ADULT HEIGHT. REFER TO 2010 CBC TABLE 1115B-1 FOR "ELEMENTARY" AND "KINDERGARTEN" ACCESSIBLE HEIGHTS.
6. GRAB BAR MOUNTING/BACKING PER A13 / A10.71
7. PROVIDE BACKING FOR ALL WALL MOUNTED EQUIPMENT PER A12 / A10.13 D12 / A10.13

A12 1/2" = 1'-0" | ACCESSIBLE ACCESSORY MOUNTING HEIGHTS

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Rem. 10-31-21

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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

ACCESSIBILITY DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

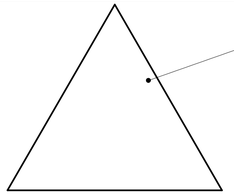
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

A10.71

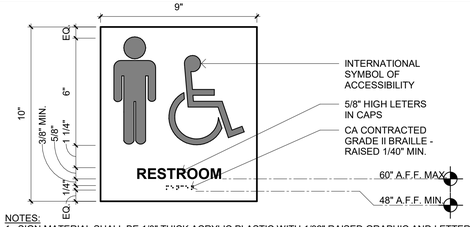
CONSTRUCTION DOCUMNENTS

Drawn by: AH Plotted on: 6/29/2020 12:48:05 PM



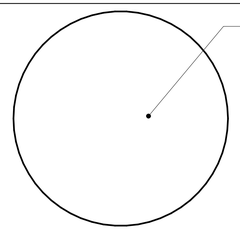
NOTES:
1. REFER TO DETAIL A12/A10.81 FOR DOOR SIGNAGE HEIGHT
2. EDGES SHALL BE EASED OR ROUNDED AT 1/16 INCH MINIMUM, VERTICES SHALL BE RADIUSED BETWEEN 1/8 INCH MINIMUM AND 1/4 INCH MAXIMUM

L1 MENS RESTROOM ID AT DOOR - TYPE R4
3" = 1'-0"



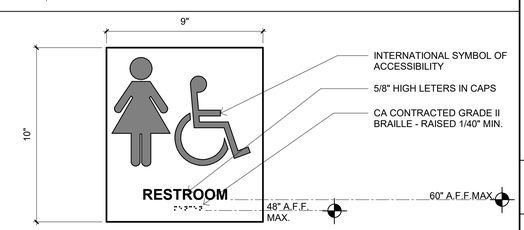
NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED GRAPHIC AND LETTERS. COMPLY WITH ARTICLE 703 OF ADA STANDARD FOR ACCESSIBILITY DESIGN
2. ALL DOORS TO RECEIVE BRAILLE ROOM IDENTIFICATION. SEE DETAIL
3. REFER TO DETAIL A12/A10.81 FOR DOOR SIGNAGE HEIGHT.

H1 MENS RESTROOM SIGN - TYPE R3
3" = 1'-0"



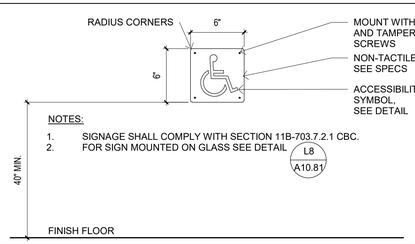
NOTES:
1. REFER TO DETAIL A12/A10.81 FOR DOOR SIGNAGE HEIGHT.
2. EDGES SHALL BE EASED OR ROUNDED AT 1/16 INCH MINIMUM, VERTICES SHALL BE RADIUSED BETWEEN 1/8 INCH MINIMUM AND 1/4 INCH MAXIMUM

F1 WOMEN'S RESTROOM ID AT DOOR - TYPE R6
3" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED GRAPHIC AND LETTERS. COMPLY WITH ARTICLE 703 OF ADA STANDARD FOR ACCESSIBILITY DESIGN
2. ALL DOORS TO RECEIVE BRAILLE ROOM IDENTIFICATION. SEE DETAIL
3. REFER TO DETAIL A12/A10.81 FOR DOOR SIGNAGE HEIGHT.

C1 WOMEN'S RESTROOM SIGN - TYPE R5
3" = 1'-0"



NOTES:
1. SIGNAGE SHALL COMPLY WITH SECTION 11B-703.7.2.1 CBC.
2. FOR SIGN MOUNTED ON GLASS SEE DETAIL L8/A10.81

A1 BUILDING ENTRANCE NON TACTILE ACCESSIBILITY SIGN - TYPE EN1
1 1/2" = 1'-0"

NOTE:
1) U.O.N., PICTOGRAMS (PICTORIAL SYMBOL SIGNS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.

2) PROVIDE SIGN AT ALL ACCESSIBLE ENTRANCE DOOR

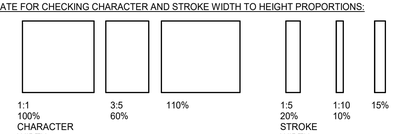
3) SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED GRAPHIC AND LETTERS. COMPLY WITH ARTICLE 703 OF ADA STANDARD FOR ACCESSIBILITY DESIGN

L4 PICTOGRAM STANDARDS
3" = 1'-0"

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5 BELOW).
2. CHARACTER PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MIN. AND 110 PERCENT MAX. OF THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.4
3. CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MIN. AND 2" MAX. BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.5
4. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. AT THE BASE OF THE CROSS SECTIONS, AND 1/8" MIN. AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MIN. CBC 11B-703.2.7
5. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MIN. AND 170 PERCENT MAX. OF THE RAISED CHARACTER HEIGHT. CBC 11B-703.2.8
6. TEXT SHALL BE IN A HORIZONTAL FORMAT. CBC 11B-703.2.9
7. FINISH AND CONTRAST: PICTOGRAMS AND THEIR FIELD SHALL HAVE ANON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. CBC 11B-703.6.2

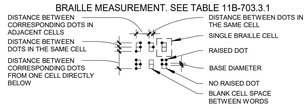
ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPE TO TEST, BEGIN BY PRINTING THE LETTERS "I" AND "O" AT 1 INCH HIGH.
USE THE 110% TEMPLATES TO DETERMINE IF THE "O" IS TOO WIDE.
USE THE 3:5 (60%) RECTANGLE TO DETERMINE IF THE "O" IS TOO NARROW.
USE THE 1:5 (20%) RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AT RAISED CHARACTER USE (15%) RECTANGLE.
USE THE 1:10 (10%) RECTANGLE TO SEE IF THE "I" IS TOO NARROW.
IF THE TESTS ARE PASSED, THE TYPE STYLE IS COMPLIANT WITH PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



8. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) 11B-703.3. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. BRAIL SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" INCH MIN. AND 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS PER FIGURE CBC 2019 11B-703.3.2.

BRAILLE MEASUREMENT. SEE TABLE 11B-703.3.1

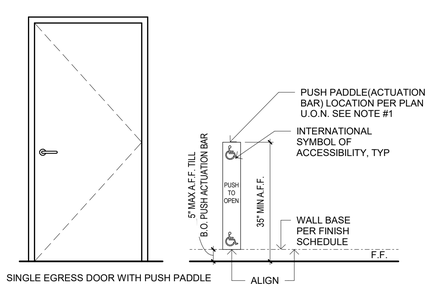


BRAILLE CELL DOT

ROUNDED DOT (ACCEPTIBLE)
SQUARE DOT (IS NOT ACCEPTIBLE)

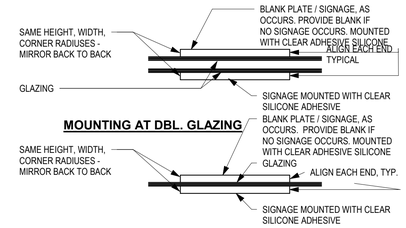
9. SIGNAGE MUST BE FIELD INSPECTED PER 2019 CBC 11B-703.1.1.

E4 CHARACTER & BRAILLE STANDARDS FOR SIGNAGE PER TITLE 24
12" = 1'-0"

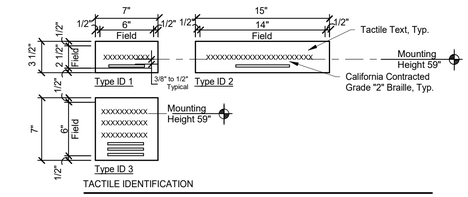


NOTES:
1) PROVIDE 30" x 48" CLR SPACE FOR FRONT OR SIDE APPROACH FOR PUSH PADDLE

A4 IDENTIFYING DEVICES - PUSH PADDLE ACTUATION BAR DETAIL
1/2" = 1'-0"

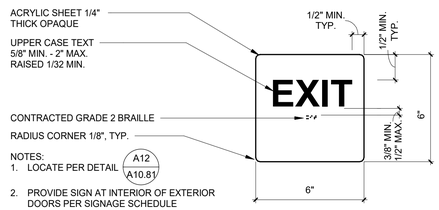


L8 ROOM IDENTIFICATION SIGN MOUNTING
3" = 1'-0"



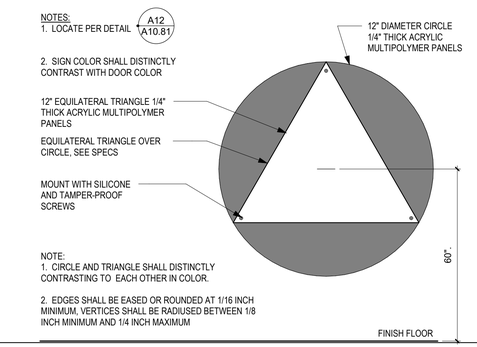
TACTILE IDENTIFICATION

L12 IDENTIFYING DEVICES, TYPE ID 1, 2 & 3
1 1/2" = 1'-0"



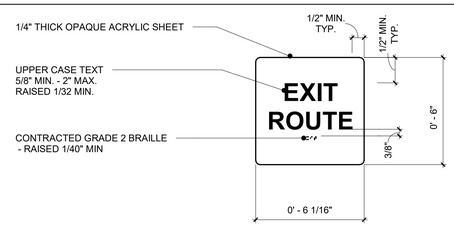
NOTES:
1. LOCATE PER DETAIL A12/A10.81
2. PROVIDE SIGN AT INTERIOR OF EXTERIOR DOORS PER SIGNAGE SCHEDULE
3. FOR ADDITIONAL TEXT & BRAILLE NOTES SEE DETAIL E4/A10.81
4. REFER TO SPEC SECTION 10 14 00 FOR ADDITIONAL INFORMATION
5. WHERE SIGNAGE IS REQUIRED TO BE MOUNTED ON GLASS, REFER TO L8/A10.81

G8 TACTILE SIGN - TYPE E1
3" = 1'-0"



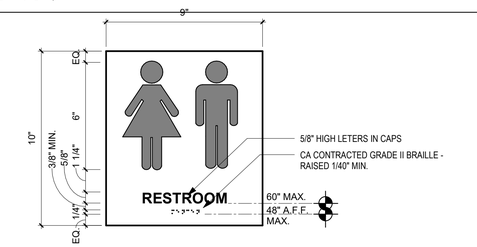
NOTES:
1. CIRCLE AND TRIANGLE SHALL DISTINCTLY CONTRASTING TO EACH OTHER IN COLOR.
2. EDGES SHALL BE EASED OR ROUNDED AT 1/16 INCH MINIMUM, VERTICES SHALL BE RADIUSED BETWEEN 1/8 INCH MINIMUM AND 1/4 INCH MAXIMUM

G12 SIGNS - RESTROOMS - TYPE R2
3" = 1'-0"



NOTES:
1. LOCATE PER DETAIL A12/A10.81
2. PROVIDE SIGN AT INTERIOR OF EXTERIOR DOORS PER SCHEDULE
3. FOR ADDITIONAL TEXT & BRAILE NOTES SEE DETAIL
4. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.

E8 SIGNS - RESTROOMS - TACTILE - TYPE E2
3" = 1'-0"



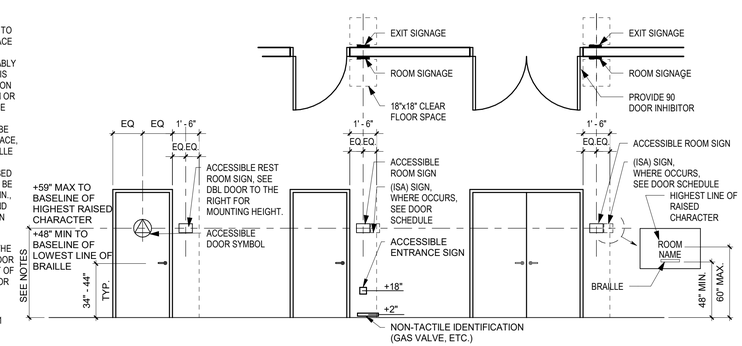
NOTES:
1. SIGN MATERIAL SHALL BE 1/8" THICK ACRYLIC PLASTIC WITH 1/32" RAISED GRAPHIC AND LETTERS. COMPLY WITH ARTICLE 703 OF ADA STANDARD FOR ACCESSIBILITY DESIGN
2. ALL DOORS TO RECEIVE BRAILLE ROOM IDENTIFICATION. SEE DETAIL
3. REFER TO DETAIL A12/A10.81 FOR DOOR SIGNAGE HEIGHT.

E12 SIGNS - RESTROOMS - TACTILE - TYPE R1
3" = 1'-0"

NOTES:
1. ROOM SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE. SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAX. ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTER. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

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

3. SEE SIGNAGE SCHEDULE ON SHEETS 1-A9.1, 2-A9.2 AND 3-A9.1 FOR MORE INFORMATION



A12 IDENTIFYING DEVICES - DOOR SIGN & SYMBOL LOCATIONS
1/4" = 1'-0"

ARCHITECT:
Noel Roger Davidson, A.I.A. Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

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Project
ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:
SIGNAGE DETAILS

Project No: T80310 **Date:** 6/29/2020

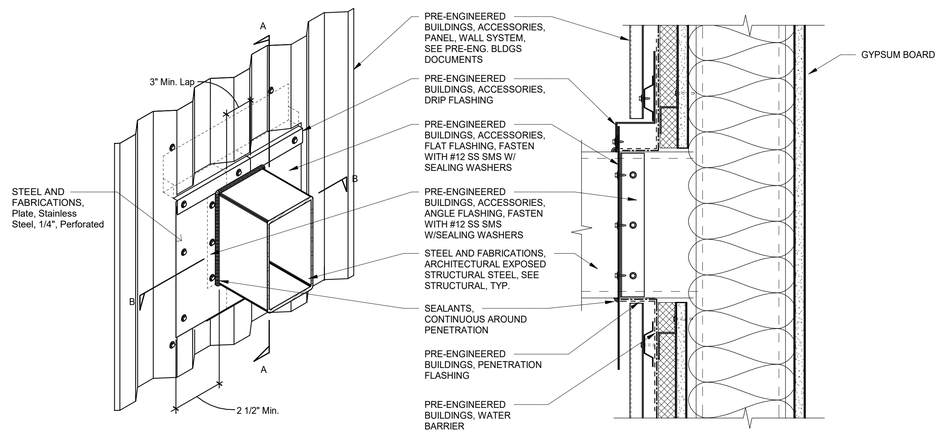
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:
A10.81

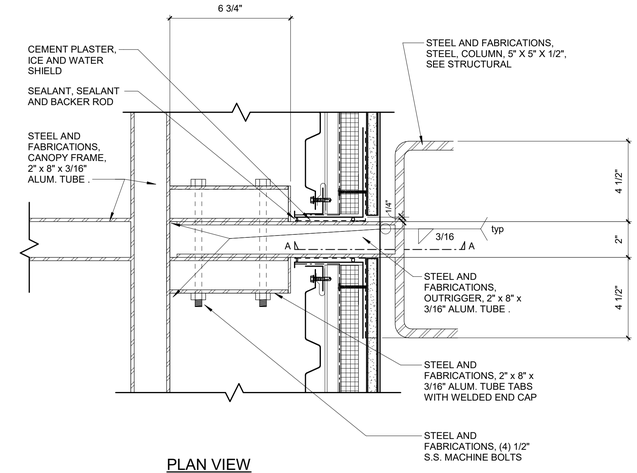
CONSTRUCTION DOCUMNENTS

Drawn by: AH Plotted on: 6/29/2020 12:48:08 PM



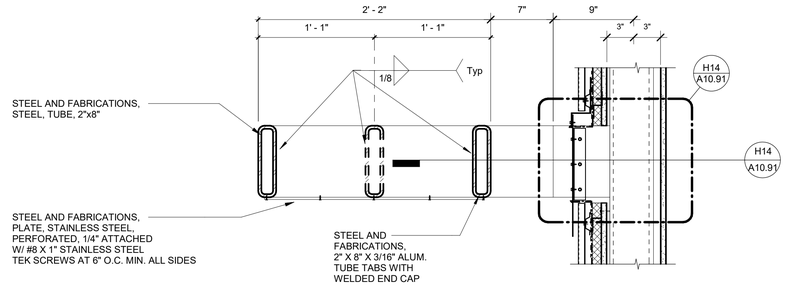
ISOMETRIC NTS

SECTION A-A

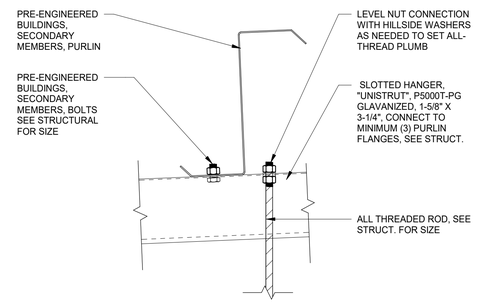


PLAN VIEW

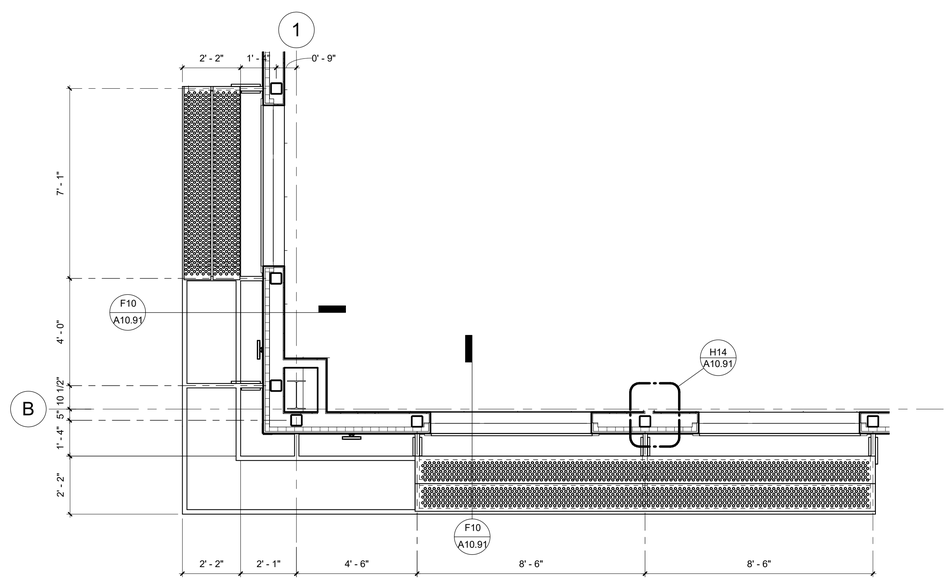
H14 | SUNSCREEN DETAILS
3" = 1'-0"



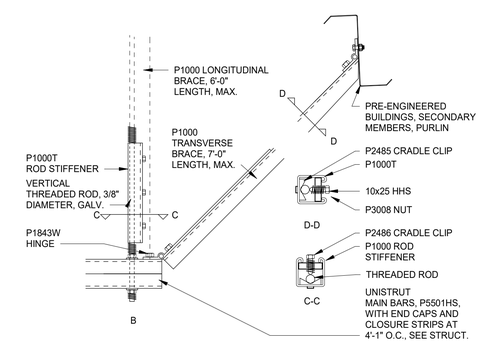
F10 | SUNSCREEN SECTION
1 1/2" = 1'-0"



D12 | MISC. SPECIALTIES, UNISTRUT TO PURLIN
3" = 1'-0"



A10 | SUNSCREEN PLAN
3/8" = 1'-0"



A12 | MISC. SPECIALTIES, UNISTRUT ,SEISMIC BRACING
1 1/2" = 1'-0"

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21

Fresno County Department of Public Works and Planning
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Project

ANIMAL CONTROL CENTER

190 W. DAN RONQUILLO DRIVE
FRESNO, CA

Sheet Content:

MISCELLANEOUS DETAILS

Project No: T80310 **Date:** 6/29/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

A10.91

CONSTRUCTION DOCUMNENTS

Drawn by: AH Plotted on: 6/29/2020 12:48:12 PM

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, and drawings.
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 procedures.
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, and drawings (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 1703.5.
    B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703.6.
16. 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.
17. 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.
18. 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.
19. Written dimensions shall have precedence over scaled dimensions.
20. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
21. 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.
22. The Contractor shall have a copy of the Project Geotechincal Investigation on the job site.
23. ASTM designation and all standards refer to the latest amendments.
24. These structural Construction Documents shall not be modified without prior written approval of the Engineer of Record.
25. 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 responsible for all work not performed in accordance with the "approved" drawings.
26. Refer to Architectural Drawings for all fire protection requirements.

SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW

1. Shop Drawings or Contractor Submittals should be provided for the fabrication (or proportioning) of the following (but not limited to) components or elements.
    A. Concrete mix designs
    B. Structural Steel
    C. Substitute or alternate materials
    D. Fire sprinklers
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, 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.

FOUNDATION

1. Unexpected soil conditions: Allowable values and foundation design are based upon soil conditions shown by test borings as presented in the project Geotechnical Investigation. 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.
5. 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.

REINFORCING BAR

1. All reinforcing bar shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 (f_y = 60 ksi), unless noted otherwise.
    A. Grade 40 (f_y = 40 ksi) may be used for #3 bars and smaller.
2. Reinforcing bar shall not be welded, unless noted or detailed otherwise.
3. 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.
6. 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.

STRUCTURAL STEEL AND WELDING

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

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

3. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17.
4. All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
5. All welding shall be performed by welders with current AWS certification for weld procedures used.
6. No field welding permitted, unless specifically noted otherwise.
7. Shop drawings for the fabrication of structural steel shall be submitted to Engineer of Record for their review, prior to fabrication.
8. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
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.
10. All bolts shall conform to ASTM A325, unless noted or detailed otherwise.
11. All welding shall conform to AWS D1.1 and D1.8 specifications for welding. (E-70XX Electrodes).
12. All headed studs (for concrete anchorage) shall be manufactured by Nelson or approved equal.
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.
14. All butt welds to be complete joint penetration, unless noted otherwise.
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 conform to CBC Sections 1705.2 and 2204.1.
16. Provide hot dip galvanizing or 3" minimum concrete cover around all structural steel below grade.
17. Structural steel embedded into concrete or masonry shall be unpainted.
18. ASTM A1852 bolts are an acceptable substitution for A325 bolts at concealed connections.

STRUCTURAL DESIGN VALUES

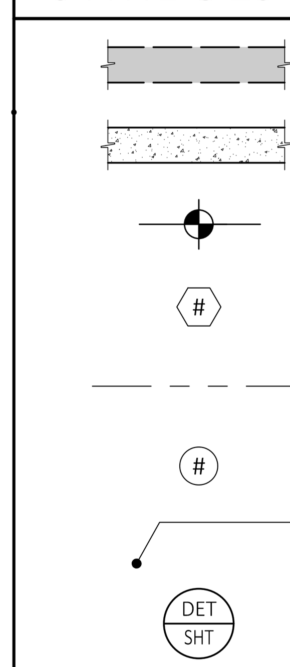
All values reported are unfactored and strength level, unless noted otherwise

Gravity Design Data	Value
Dead Loads:	
Roof Dead Load	By Others
Ceiling Dead Load	10 psf
Exterior Wall Dead Load	By Others
Interior Wall Dead Load	By Others
Live Loads:	
Roof Live Load (Reducible)	20 psf
Ceiling Live Load	20 psf
Snow Loads:	
Ground Snow Load, P_g	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	II
Exposure Category	C
Applicable Internal Pressure Coefficient	± 0.18
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	q_z = 17.4 psf
Earthquake Design Data	**Value**
Risk Category	II
Importance Factor, I_e	1.0
Mapped Spectral Response Accelerations	S_S= 0.63 g S_1= 0.24 g
Site Class	D
Spectral Response Coefficients	S_{DS}= 0.54 g S_{D1}= 0.34 g
Seismic Design Category	D
Geotechnical Design Data	**Value**
Preliminary Geotechnical Report prepared by: County of Fresno, Department of Public Works and Planning (Report No. T80310)	Dated: May 27, 2020
Allowable Soil Bearing Pressure (DL + LL, Continuous)	1680B + 3080D psf
Allowable Soil Bearing Pressure (DL + LL, Square)	1340B + 3080D psf
Design Active Pressure, P_a	32 pcf
Design At-Rest Pressure, P_a	75 pcf
Design Passive Pressure, P_p	475 pcf
Design Coefficient of Friction, f_f	0.48

ABBREVIATIONS

A.B.	Anchor Bolt
ABV.	Above
ACI	American Concrete Institute
ADD'L	Additional
ADJ.	Adjacent
AHJ	Authority Having Jurisdiction
AISC	American Institute of Steel Construction
AITC	American Institute of Timber Construction
AOR	Architect of Record
APA	American Plywood Association
APPROX.	Approximate(ly)
ASCE	American Society of Civil Engineers
ARCH.	Architect, Architecture
ASTM	American Society of Testing and Materials
ATR	All Thread Rod
AWS	American Welding Society
BLDG.	Building
BLK.	Block
BLKD.	Blocked
BLK'G	Blocking
BM.	Beam
B.O.	Bottom of _______
BOT.	Bottom
BRG.	Bearing
b/t	Between
CAC	California Administrative Code
CANT.	Cantilever
CBC	California Building Code
CIP	Cast-in-place
CJ	Control Joint
CJP	Complete Joint Penetration
℄	Centerline
CLG.	Ceiling
CLR.	Clear
CMU	Concrete Masonry Unit
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continue, Continuous
CSK.	Countersink
Ø	Diameter
d	Penny
DBL.	Double
DCW	Demand Critical Weld
DET.	Detail
DEMO	Demolition
DF	Douglas Fir
DIAG.	Diagonal
DL	Dead Load
DSA	Division of State Architect
DWGS.	Drawings
EA.	Each
E.F.	Each Face
ELEC.	Electric, Electrical
ELEV.	Elevation
EMBED.	Embedded, Embedment
E.N.	Edge Nailing
EOR	Engineer of Record
EQ.	Equal
EQUIP.	Equipment
E.S.	Each Side
E.W.	Each Way
(E)	Existing
EXP.	Expansion
EXT.	Exterior
FAB.	Fabricated
FDN.	Foundation
F.F.	Finish floor
FLR.	Floor
F.O.	Face of _______
FRMG.	Framing
FT.	Foot,Feet
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
GEOR	Geotechnical Engineer of Record
GLB	Glued-Laminated Beam
GYP. BD.	Gypsum Board
HDR.	Header
HD.	Holdown
HORIZ.	Horizontal
HSS	Hollow Steel Section
HT.	Height
IBC	International Building Code
ICC	International Code Council
ICF	Insulated Concrete Form
ID	Inside Diameter
IN.	Inch, Inches
INT.	Interior
JST.	Joist
ksi	Kips per Square Inch
LL	Live Load
LW	Lightweight
LSL	Laminated Strand Lumber
LVL	Laminated Veneer Lumber
MAX.	Maximum
MB	Machine Bolt
MBM	Metal Building Manufacturer
MECH.	Mechanical
MSE	Mechanically Stabilized Earth
MFR.	Manufactured, Manufacturer
MIN.	Minimum
MPH	Miles per Hour
MTL.	Metal
(N)	New
NDS	National Design Specification
N.T.S.	Not to Scale
o.c.	On Center
o/	Over
OD	Outside Diameter
OSB	Oriented Strand Board
OSHPD	Office of State Health Planning and Development
OWSJ	Open Web Steel Joist
PEN.	Penetration
PL.	Plate
PLYWD.	Plywood
PJP	Partial Joint Penetration
psi	Pounds per Square Inch
PSF	Pounds per Square Foot
PSL	Parallel Strand Lumber (Paralam)
PEMB	Pre-Engineered Metal Building
PERF.	Perforated
PTDF	Pressure Treated Douglas Fir
PW	Puddle Weld
Q.A.	Quality Assurance
Q.C.	Quality Control
RBS	Reduced Beam Section
RDWD	Redwood
REBAR	Reinforcing Bar
REINF.	Reinforcement
RET.	Retaining
REQ'D	Required
S.F.	Square Feet
SHT.	Sheet
SHT'G	Sheathing
SIM.	Similar
SIP	Structural Insulated Panel
SJI	Steel Joist Institute
SLRS	Seismic Load Resisting System
SMS	Sheet Metal Screw
SQ.	Square
SS	Select Structural
STAGG'D	Staggered
STD.	Standard
STL.	Steel
SW	Shearwall
SEOR	Structural Engineer of Record
T&B	Top and bottom
T&G	Tongue and Groove
THR'D	Threaded
T.O.	Top of _______
TRL.	Triple
TYP.	Typical
UNBLKD.	Unblocked
U.N.O.	Unless Noted Otherwise
URM	Unreinforced Masonry
VERT.	Vertical
VIF	Verify in Field
w/	With
w/c	Water/Cement Ratio
WD.	Wood
W.P.	Working Point
W.S.M.F.	Welded Steel Moment Frame
WSS	Welded Steel Stud
WT.	Weight
WWM	Welded Wire Mesh

SYMBOLS



Concrete Footing

Concrete Wall

Elevation Reference

Post, Column or Column Footing Reference
-Refer to Schedules

Building Match Line

Reference Note

Elevation Reference

Detail Number Reference
Sheet Number Reference

SSG Structural Engineers, LLP
805.439.2110 ssgse.com
811 El Capitan Way, Suite 240, San Luis Obispo, CA 93401
8405 N. Fresno Street, Suite 120, Fresno, CA 93720

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LICENSED ARCHITECT · NOEL ROGER DAVIDSON II · C-27818 · REN: 10-31-21 · STATE OF CALIFORNIA

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: N/A
Building No.: N/A

STRUCTURAL NOTES

Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

S1.0

STRUCTURAL NOTES (CONT.)

CONCRETE

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		

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.
5. Cement shall be Portland Cement Type II/V and shall conform to ASTM C150.
6. Aggregates shall conform to ASTM C33; provide aggregates from a single source.
7. Water shall conform to ASTM C94 and be potable.
8. 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	3"
Concrete placed against forms, but exposed to earth or weather	2"
Slabs, wall & joists, not exposed to earth or weather	¾"
Beams, girders & columns, not exposed to earth or weather	1½"

10. Reinforcing bars larger than #8 are not permitted unless noted otherwise.
11. Location of all construction joints, other than specified, shall be approved by Architect/Engineer of Record prior to pouring. 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 pouring.
12. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
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 pipe through footing.
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.
15. Formwork design and removal shall conform to ACI 318-14 Section 26.11. Remove forms in accordance with the following minimum schedule:

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

16. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
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 Engineer of Record.
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 Contractor.
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 roughly square.
    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 vertical.
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 305R-14.
28. Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
    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 unless the layout has been approved by the Engineer of Record
29. Architectural topping slabs shall be placed after concrete framing and/or concrete filled metal deck has reached the design compressive strength.
30. The depth of reveals in concrete walls shall not be greater than ⅜". Where reveals occur in concrete walls, add ⅜" of clear cover to values shown above.
31. It is recommended that the contractor employ a licensed surveyor to confirm the locations of embeds and anchor bolt settings prior to the placing of concrete.

METAL BUILDING SYSTEM

1. The metal building system as described within these notes, plans and details shall be designed and manufactured by a Metal Building Manufacturer, or equivalent as approved by the Engineer of Record.
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.
3. The metal building system shall consist of the following components (but not limited to):
    A. Structural steel rigid frames
    B. Lateral (wind/seismic bracing systems, perpendicular to steel rigid frames)
    C. Roof purlins/eaves
    D. Roof bracing systems
    E. Roof decking
    F. Wall framing systems
    G. Anchor bolts, and all other hardware required for assembly, bracing and securing.
4. The Contractor shall take care to coordinate between metal building system and other framing systems.
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.

LIGHT WEIGHT STRUCTURAL STEEL FRAMING

1. All studs, joists, and accessories shall be of the type, size, gauge and spacing shown on the drawings and shall be manufactured by an agency approved by the Steel Stud Manufacturer's Association.
    A. All studs, joists, accessories and components shall conform to CBC Section 2210 and have a minimum yield stress (F_y) of 50 ksi, unless noted otherwise.
2. All framing components shall be cut squarely for attachment to perpendicular members, or as required for an angular fit against abutting members.
3. All components shall be securely fastened together.
    A. Fastening shall be with self-drilling screws or welds as noted.
    B. Screw and weld size, type, location and spacing shall be as per manufacturer's requirements, except where noted or detailed otherwise.
    C. Wire tying of components shall not be permitted.
4. Welding shall comply with current AWS practice. All welds shall be touched up with zinc rich paint.
5. Studs shall be plumbed, aligned and securely attached to flanges of both upper and lower tracks.
6. Splices in studs shall not be permitted.
7. Joists shall be located directly over bearing studs.
8. Provide joist bridging per manufacturer's requirements.
9. Components shall be held firmly in position until properly fastened.
10. All joists and studs shall be braced at 48" o.c. (max.) unless noted or detailed otherwise. At studs, bracing may be omitted when both sides of the wall are sheathed with ⅝" gypsum wall board or plywood sheathing for the entire length and height of the wall.
11. Ceiling roof/soffit joists and studs shall have a min. of 10" unpunched steel at all end supports.

COLD FORMED STEEL FRAMING LEGEND

Sample : 600 S 162-54

Member Depth in 1/100 inches

Flange Width in 1/100 inches

Member Type:
S =Stud
T=Track
F =Furring (or Hat) Channel
U=Channel Section

Base Metal Thickness in mils:
33 mils = 20 gauge
43 mils = 18 gauge
54 mils = 16 gauge
68 mils = 14 gauge
1 mil = 1/1000 inch

WOOD

1. Minimum lumber grades, unless noted otherwise: Douglas Fir-Larch

2x studs, blocking & plates:	
bear walls	No. 2 or better
non-bearing walls	Construction or better
2x Joists	No. 2 or better
4x Beams	No. 2 or better
exposed (interior and exterior)	Select Structural
non-exposed	No. 2 or better
6x Beams:	
exposed (interior and exterior)	Select Structural
non-exposed	No. 1 or better
4x Post	No. 2 or better
6x Post	No. 1 or better

2. Foundation sill plates shall be preservative-treated Douglas Fir (per CBC Section 2303.1.9). Refer to Project shearwall schedule and/or foundation plan for anchor bolt size and spacing.
3. Rated sheathing shall be Structural I with exterior glue, as graded by the APA.
    A. Rated sheathing shall conform to CBC Section 2303.1.5
    B. OSB shall conform to United States Product Standard PS 1 OR PS 2.
4. All sawn lumber or timber shall conform to CBC Section 2303.1.1.
5. Maximum moisture content for all structural members shall not exceed 19%, unless noted otherwise.
6. Treat faces of all cut preservative treated lumber.

WOOD FASTENERS

1. Nailing for framing shall be with common nails, unless noted otherwise.
2. Lag screws shall be screwed into predrilled holes. Clearance hole for the shank portion and lead hole for threaded portion shall be drilled in accordance with NDS-18 Section 12.1.4.
3. Bolts (bolt head and nut) shall have standard cast iron malleable iron washers (unless used with metal side plates or angles).
4. Bolt holes through lumber shall be drilled with a measurement of 1/16" larger than bolt diameter.
5. All bolts shall conform to ASTM A307.
6. Bolt tightening: Take up snug and re-tighten at the latest practicable time during construction.
7. Nails shall not be driven closer than ½ of their length, not closer to the edge of the member than ¼ length, except for sheathing.
8. Sub-bore when nails tend to split wood. Sub-bore for 20d and larger nails. Drill diameter shall be 0.75 times nail diameter.
9. Fasteners in preservative-treated lumber shall be stainless steel, silicon bronze, copper or hot-dip galvanized steel fasteners.
10. Zinc-coated fasteners shall conform to ASTM A653, Type G185.

CARPENTRY/FRAMING

1. Carpentry and framing shall conform to CBC Section 2304.
    A. Refer to Fastener Schedule included in the Structural Notes
2. Metal framing angles, anchors, clips, straps, ties, holdowns, etc. shall be manufactured by Simpson Strong-Tie Co. or an approved equal.
3. Sheathing used in roofs, floors and decks, shall be placed with face grain perpendicular to supports. Sheathing sheets shall be staggered.
4. Face nail all double (and triple) 2x studs and joists together with 16d common @ 12" o.c., stagger nails.
5. Unless noted otherwise, minimum sill plate bolting shall be ⅝" diameter anchor bolt @ 48" o.c. There shall be a minimum of two bolts per plate with one bolt within 6" to 12" of each end of plate.
6. Interior non-bearing, non-shear, stud wall sill plates may be secured to concrete slabs with Hilti type X-U shot pins (with 1" minimum embedment) @ 16" o.c. with steel washers. Installation shall conform to ICC-ES ESR-2269.
7. In general, sheathing panel edges (for shearwalls, roofs, floors and decks) shall bear on framing members (2x minimum).
8. Place beams with natural camber upward.
9. Unless noted otherwise, provide continuous double 2x plates at top of all bearing walls and 2x sill or sole plate at bottom of wall. Plate material shall match the stud wall width.
10. Where wood stud walls abut concrete or masonry walls, a PTDF end stud shall be bolted to the concrete/masonry with ⅝" diameter anchor bolts. Locate anchor bolts 12" from top and bottom of stud, and at 48" o.c. The bolts shall be centered on the stud.
11. Provide solid blocking (2x min.) between all joists and rafters at all supports and under all partitions. Provide double joists directly below all interior partitions where framing is parallel. Provide 2x solid blocking (or approved bridging) at 8'-0" o.c. between 2x12 and larger joist and rafters. Blocking shall be full depth of joists and rafters.
12. No structural members (joists, plates, studs, beams, columns, girder, post, truss, etc.) shall be notched, cut or drilled, except for those holes required for bolting, unless noted otherwise, as outlined below, or with written approval from Engineer of Record.
13. Rated sheathing shear walls shall be constructed in accordance with CBC Section 2306.3. No openings are allowed in shear walls, unless specifically noted or detailed.
14. Provide 3"x3"x¼" steel plate washers at anchor bolts at all structural walls.
15. Framing around flues and chimneys shall conform to CBC Section 2304.5.
16. Pipes in walls shall conform to CBC Section 2308.5.8.

Holes and Notches in Plates and Sills:

Bored holes may be placed in plates and sills provided they are centered about member, spaced a minimum of 12" apart and hole diameter does not exceed 25% of the member width. When bored hole exceeds 25% of the member width, reinforce plate or sill as follows:
A. Plates: 1½" x ⅛" strap each side of plate nailed with 6-16d nails each side of hole. Holes over 40% of the plate width are not permitted in any plate. Any pipe or conduit requiring a hole larger than 40% of the plate width shall be brought to the attention of the engineer immediately.
B. Sills: Splice in a manner similar to plates above, at holes between 25% and 40% of sill width. Sills may be completely cut on each side of a pipe or conduit provided an additional anchor bolt or 6-16d is placed within 9" of the end of the sill, each side of the pipe or conduit.

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Project
ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:
Building Name: N/A
Building No.: N/A

STRUCTURAL NOTES

Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:
S1.1

STRUCTURAL NOTES (CONT.)

SPECIAL INSPECTION

GENERAL NOTES

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

SOILS[a]

Verification and Inspection	Cont.	Periodic
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		✓
2. Verify excavations are extended to proper depth and have reached proper material.		✓
3. Perform classification and testing of compacted fill materials.		✓
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	✓	b
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		✓

Notes: Soils

a. CBC Section 1705.6 and Table 1705.6

b. With the approval of the Authority Having Jurisdiction and the recommendation of the Geotechnical Engineer of Record, Special Inspection of grading operations may be periodic per CBC Section 1704.2, Exception 1.

SPECIAL CASES

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

CONCRETE CONSTRUCTION[ac]

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

Notes: Concrete Construction

a. Where applicable, see also CBC Section 1705.12, Special Inspections for seismic resistance

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 prior to the commencement of the work.

c. CBC Section 1705.3 and Table 1705.3

d. See Special Cases Special Inspection for more requirements

STEEL CONSTRUCTION[ab]

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

STEEL CONSTRUCTION, CONTINUED

Verification and Inspection	Cont.	Periodic
Inspection tasks after welding		
1. Welds cleaned		✓
2. Size, length and location of welds	✓	
3. Welds meet visual acceptance criteria: Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity	✓	
4. Arc strikes	✓	
5. k-Area[f]	✓	
6. Weld access holes in heavy shapes and built-up heavy shapes[h]	✓	
7. Backing removed and weld tabs removed (if required)	✓	
8. Repair activies	✓	
9. Document acceptance or rejection of welded joint or member	✓	
10. No prohibited welds have been added without the approval of the EOR		✓
Inspection tasks prior to bolting[g]		
1. Manufacturer's certifications available for fastener materials	✓	
2. Fasteners marked in accordance with ASTM requirements		✓
3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		✓
4. Proper bolting procedure selected for joint detail		✓
5. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		✓
6. Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used		✓
7. Proper storage provided for bolts, nuts, washer and other fastener components		✓
Inspection tasks during bolting		
1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required		✓
2. Joint brought to the snug-tight condition prior to the pretensioning operation		✓
3. Fastener component not turned by the wrench prevented from rotating		✓
4. Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below		✓
Inspection tasks after bolting		
1. Document acceptance or rejection of bolted connections	✓	

Notes: Steel Construction

a. CBC Section 1705.2 and Table 1705.2.2

b. CBC Section 1707.11.1

c. AWS D1.3

d. AWS D1.4, ACI 318: Section 3.5.2

e. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.

f. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches of the weld

g. All methods of installation for high strength bolts shall require verification of pre-tension by a Skidmore-Welhelm calibrator for each batch or source of bolts used (see minimum pre-tension chart below).

h. After rolled shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks

Minimum Bolt Pretension (kips)

Bolt size inches	Group A (A325, etc.)	Group B. (A490, etc.)
1/2" Diameter	12	15
5/8" Diameter	19	24
3/4" Diameter	28	35
7/8" Diameter	39	49
1" Diameter	51	64
1 1/8" Diameter	56	80
1 1/4" Diameter	71	102
1 3/8" Diameter	85	121
1 1/2" Diameter	103	148

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Sheet Content:
Building Name: N/A
Building No.: N/A
STRUCTURAL NOTES
Project No: S19447 **Date:** 6/10/2020

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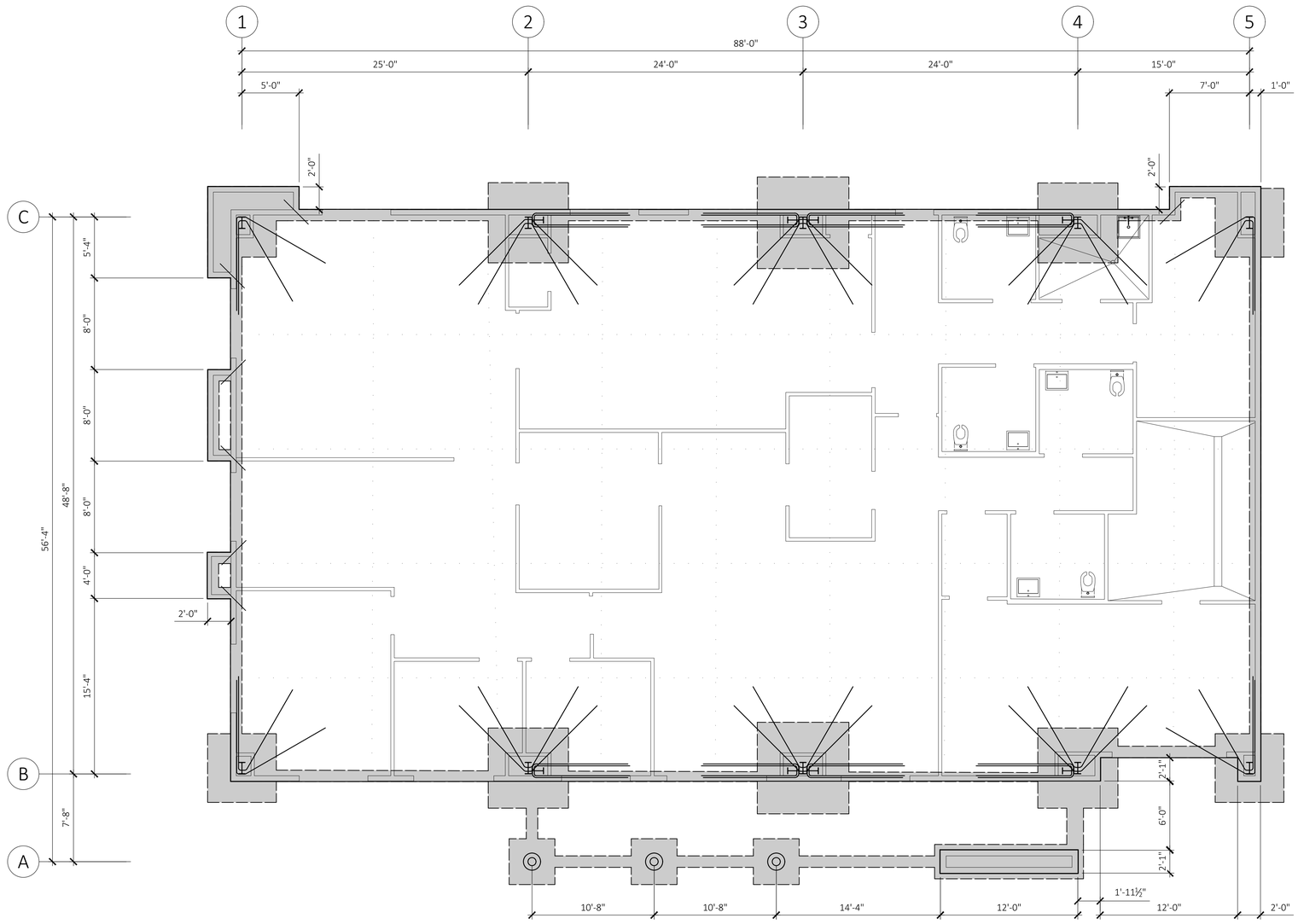
Sheet No:
S1.2



OVERALL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

GENERAL FOUNDATION NOTES:

A. See Structural Notes, Sheets S1.0 & S1.1

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 xx dated xx

D. Prior to the Contractor requesting a Building Department Foundation Inspection, the project Geotechnical Engineer shall advise the Building Official in writing that:
   1. The building pad was prepared in accordance with the approved construction documents and project Geotechnical Engineer's recommendations
   2. The utility trenches have been properly backfilled and compacted
   3. The foundation excavations comply with the project Geotechnical Engineer's recommendations and are founded into firm competent material
   4. The soils expansion index is verified

E. For depiction of building pad preparation, see detail xx

F. See Architectural Drawings for all embedded items and non-structural components associated with concrete work

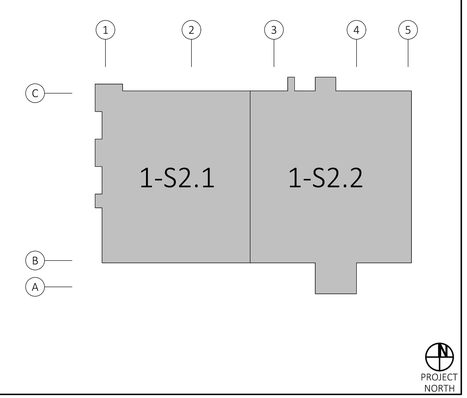
G. For typical rebar bends and laps, see details 21, 22, & 23 on sheet S4.0

H. For typical intersecting footing configuration, see detail 14/S4.0

I. For typical pipe through footing, see detail 11/S4.0

J. For typical pipe penetration in slab on grade, see detail 24/S4.0

KEY PLAN - BUILDING 1



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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

OVERALL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

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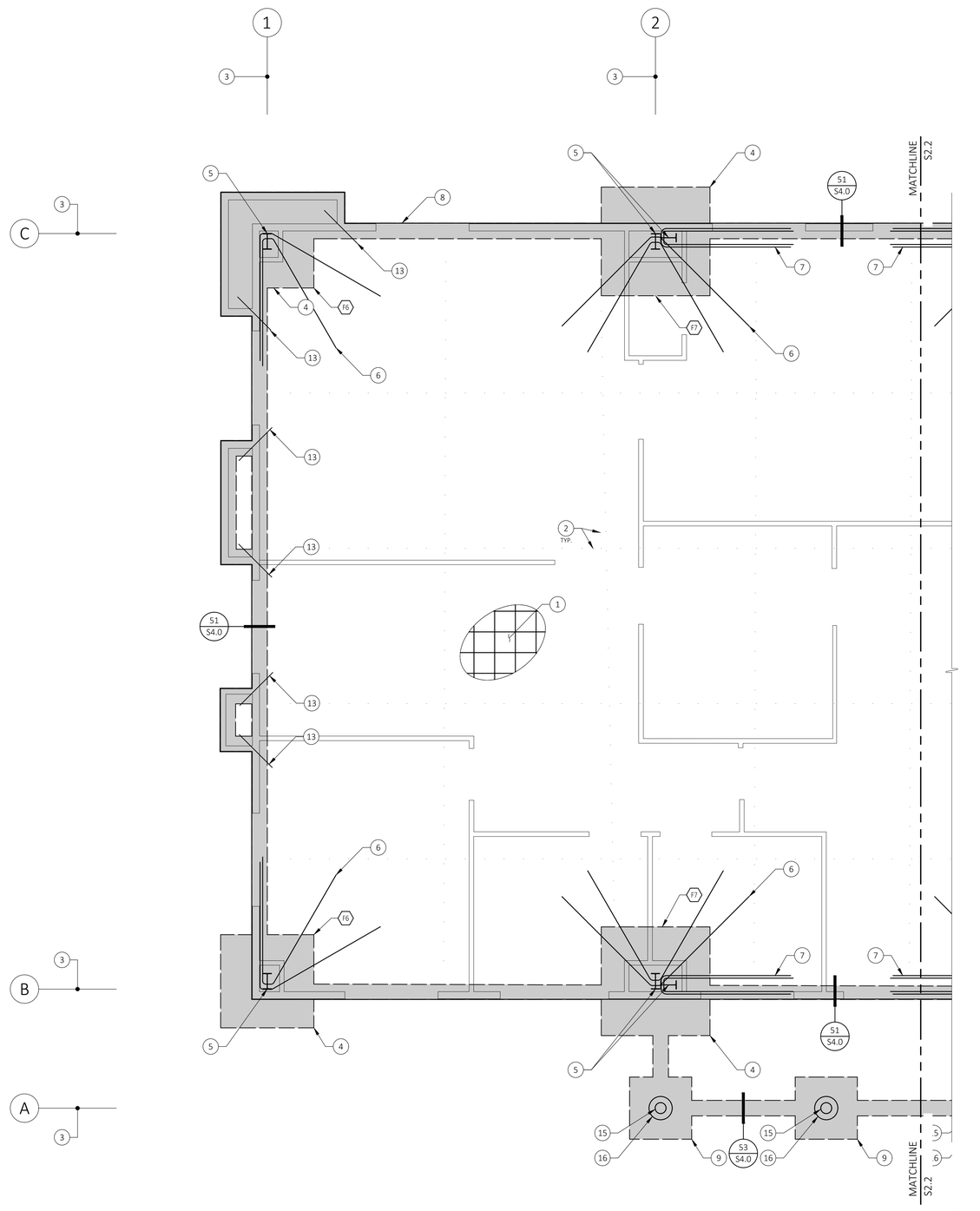
THE COUNTY OF FRESNO 1856

Sheet No:

1-S2.0



PARTIAL FOUNDATION PLAN

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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

FOUNDATION REFERENCE NOTES: (#)

(1.) 6" Thick concrete slab with #5 horizontal bars @ 18" o.c. each direction at mid-depth
- A. See detail 12/S4.0

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/S4.0

3. Centerline of Pre-Manufactured Metal Building frame column and pad footing

4. 30" deep square pad footing w/ #5 horizontal bars @ 9" o.c. each direction, 3" up from the bottom and 3" down from the top
- A. See plan and footing schedule for minimum footing size
- B. Centered on column bolt group
- C. U.N.O. on plan, see detail 11/S4.1

5. Steel frame column and bolt group per Metal Building Manufacturer (MBM)
- A. See anchor bolt plan by MBM for placement
- B. Embed anchor bolts 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 44/S4.0. Bolt diameters shall be as indicated on MBM Anchor Rod Plan
- D. Special inspection required, see Sheet S1.1
- E. See detail 43/S4.0 for thrust angle at typical metal building columns

6. 2 - #5 hairpins at column anchor bolt group, with 16'-0" legs
- A. See details 31/S4.0 & 32/S4.0

7. 2-#5 Hairpins at portal frame column anchor group, with 16'-0" legs
- A. See detail 33/S4.0

8. Edge of slab

9. 4'-0" Square x 24" 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. Centered on column bolt group
- B. See detail 14/S4.1

10. Plumbing fixture, refer to architectural drawings

11. Drain per plumbing drawings
- A. See details 24/S4.0 at slab penetration

12. Trench drain per plumbing drawings
- A. See details 34/S4.0

13. #5 x 36" long trim bar typical at interior slab corners

14. 4'-0" Square x 24" deep square pad footing w/ 6-#5 horizontal bars evenly spaced, 3" up from the bottom
- A. Centered on column
- B. See detail 12/S4.1

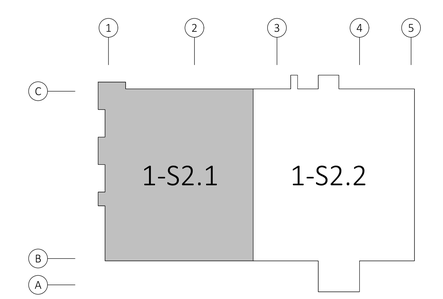
15. Steel frame column per Metal Building Manufacturer

16. Pedestal, see architectural drawings

Footing Size and Reinforcing			Allowable Reactions (Service)		
Mark	Dimensions	Reinforcing	Vertical [k]	Uplift [k] Exterior	Uplift [k] Corner
F6	6'-0" x 6'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	109.4	-	11.2
F7	7'-0" x 7'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	148.9	17.7	-
F8	8'-0" x 8'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	194.5	21.2	-

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.

KEY PLAN - BUILDING 1



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REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PARRA No. 94 STRUCTURAL STATE OF CALIFORNIA
FOR REVIEW

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

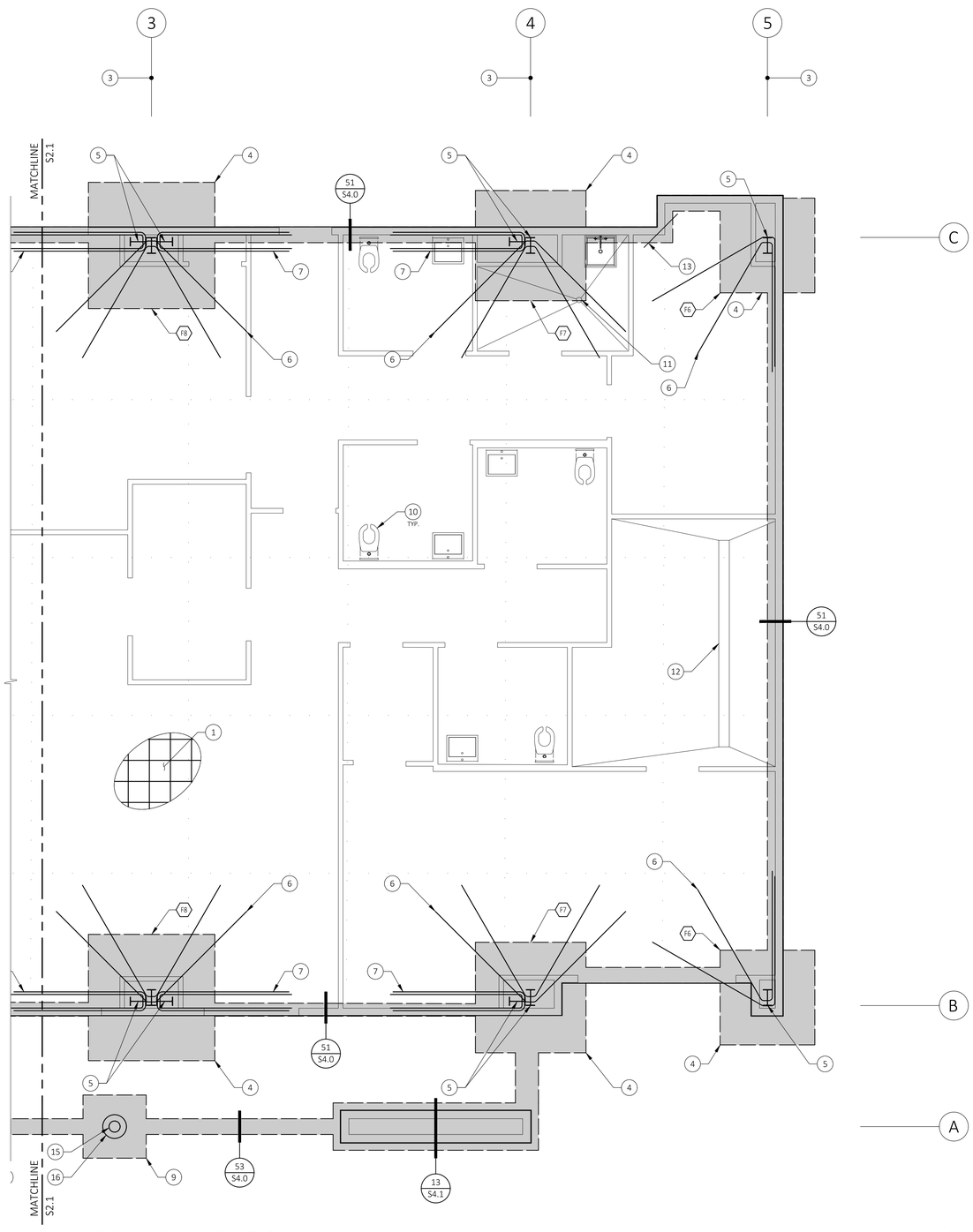
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

1-S2.1



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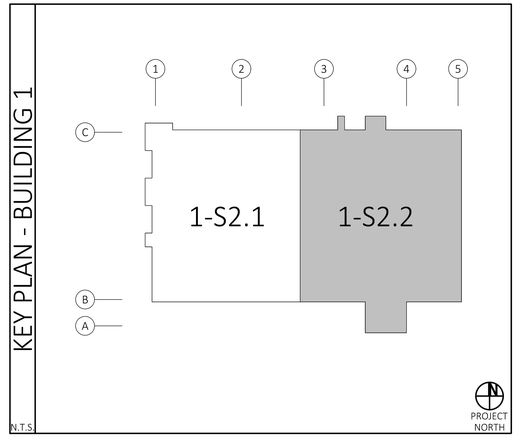

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

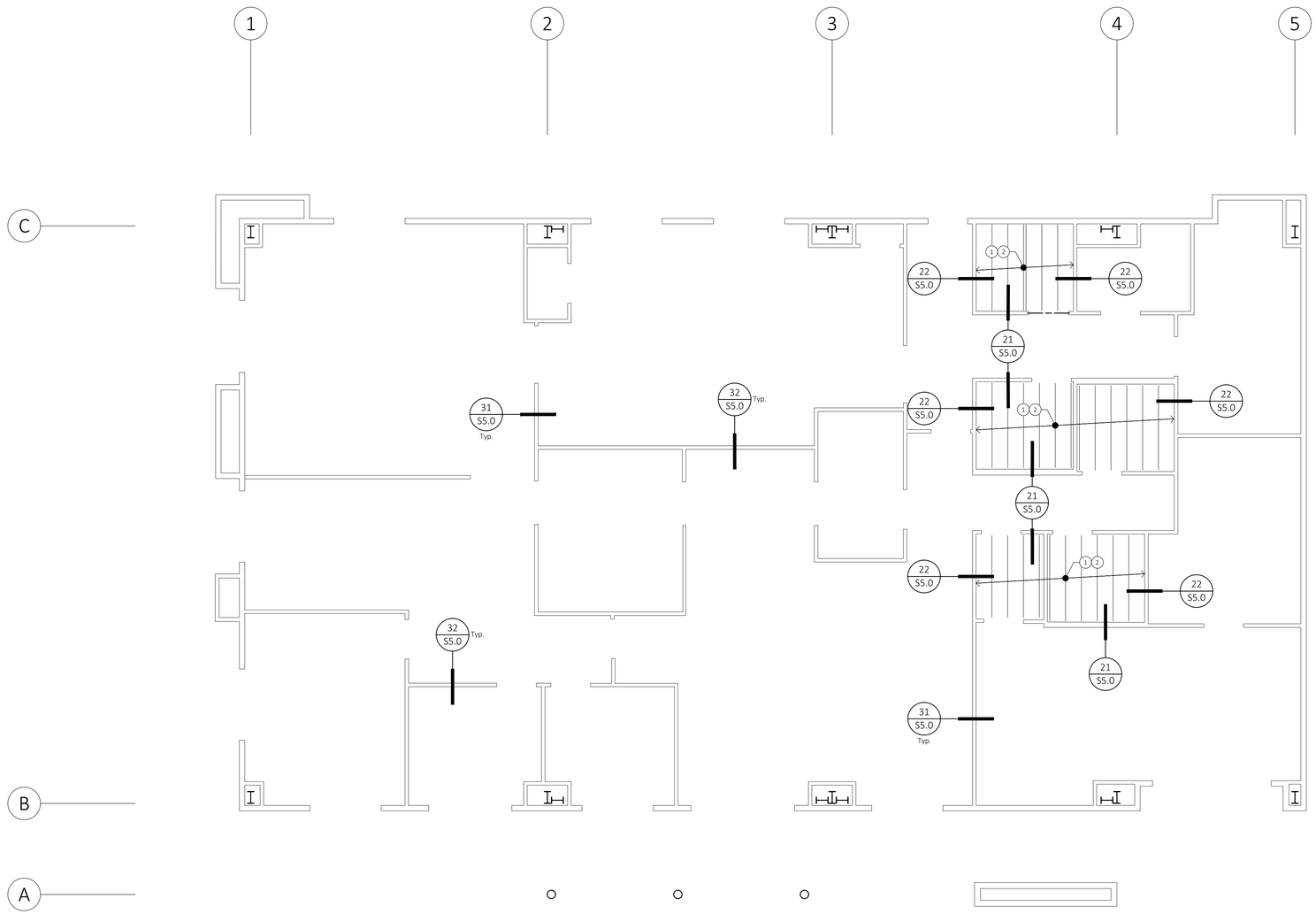
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

1-S2.2



CEILING FRAMING PLAN

SCALE: 3/16" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

FLOOR FRAMING REFERENCE NOTES: #

1. General Typical Notes: See Structural Notes, Sheets S1.0, S1.1, and S1.2
   A. See Architectural and Metal Building Drawings for all embedded items and non-structural components.
   B. Refer to typical light gage steel stud framing details 11, 12, 13, and 14 on Sheet S5.0

2. Typical Ceiling Joist: 600S162-43 @ 16" o.c.
   A. Provide 362S162-33 flat strong-back across tops of joists at mid-span. Attach with 2-#8 SMS per joist flange.

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Project No: S19447 **Date:** 6/10/2020

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Sheet No:

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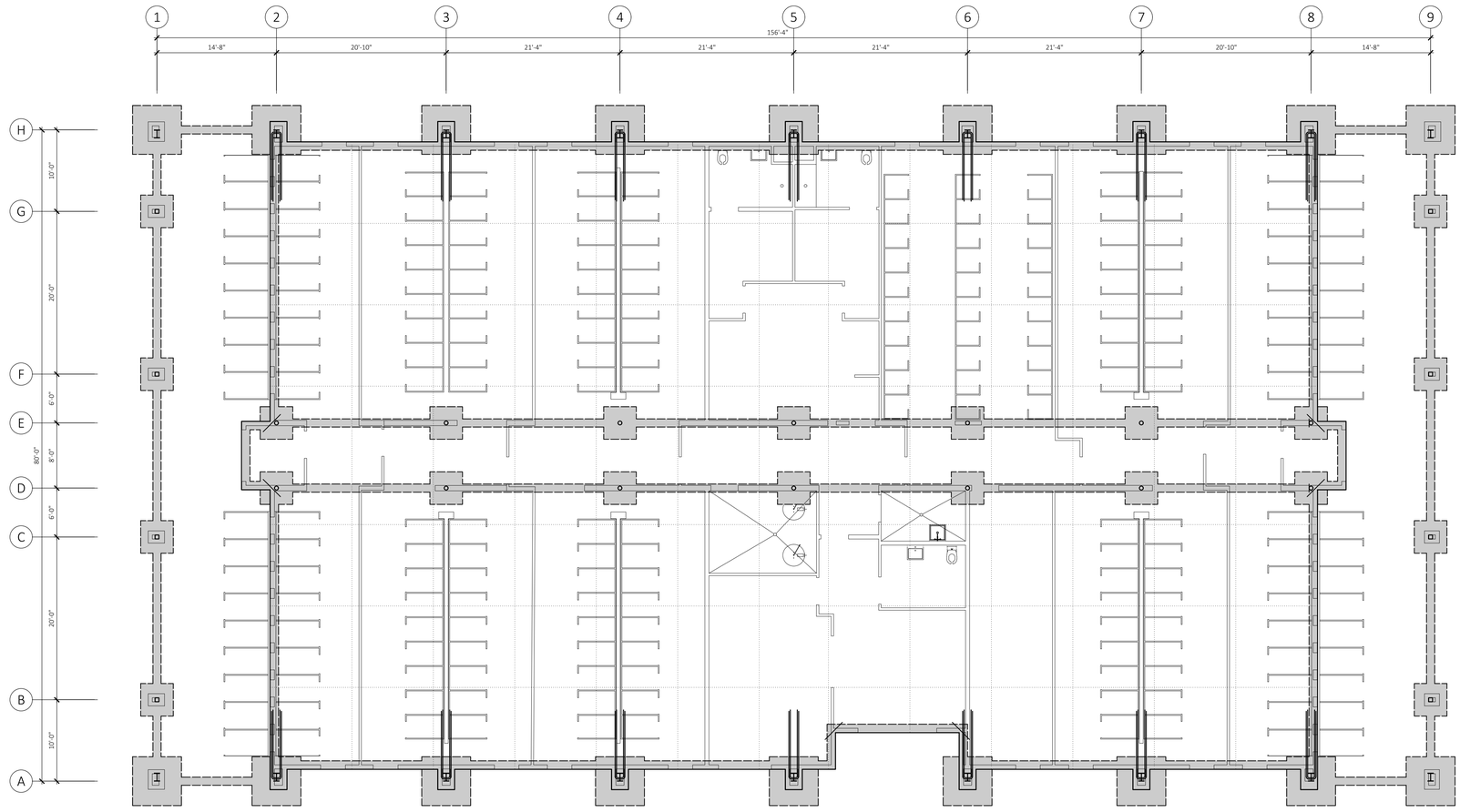


OVERALL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

GENERAL FOUNDATION NOTES:

A. See Structural Notes, Sheets S1.0 & S1.1

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 xx dated xx

D. Prior to the Contractor requesting a Building Department Foundation Inspection, the project Geotechnical Engineer shall advise the Building Official in writing that:
   1. The building pad was prepared in accordance with the approved construction documents and project Geotechnical Engineer's recommendations
   2. The utility trenches have been properly backfilled and compacted
   3. The foundation excavations comply with the project Geotechnical Engineer's recommendations and are founded into firm competent material
   4. The soils expansion index is verified

E. For depiction of building pad preparation, see detail xx

F. See Architectural Drawings for all embedded items and non-structural components associated with concrete work

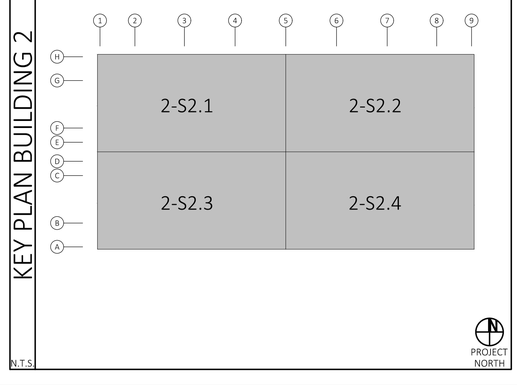
G. For typical rebar bends and laps, see details 21, 22, & 23 on sheet S4.0

H. For typical intersecting footing configuration, see detail 14/S4.0

I. For typical pipe through footing, see detail 11/S4.0

J. For typical pipe penetration in slab on grade, see detail 24/S4.0

KEY PLAN BUILDING 2



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REN: 10-31-21
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

OVERALL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

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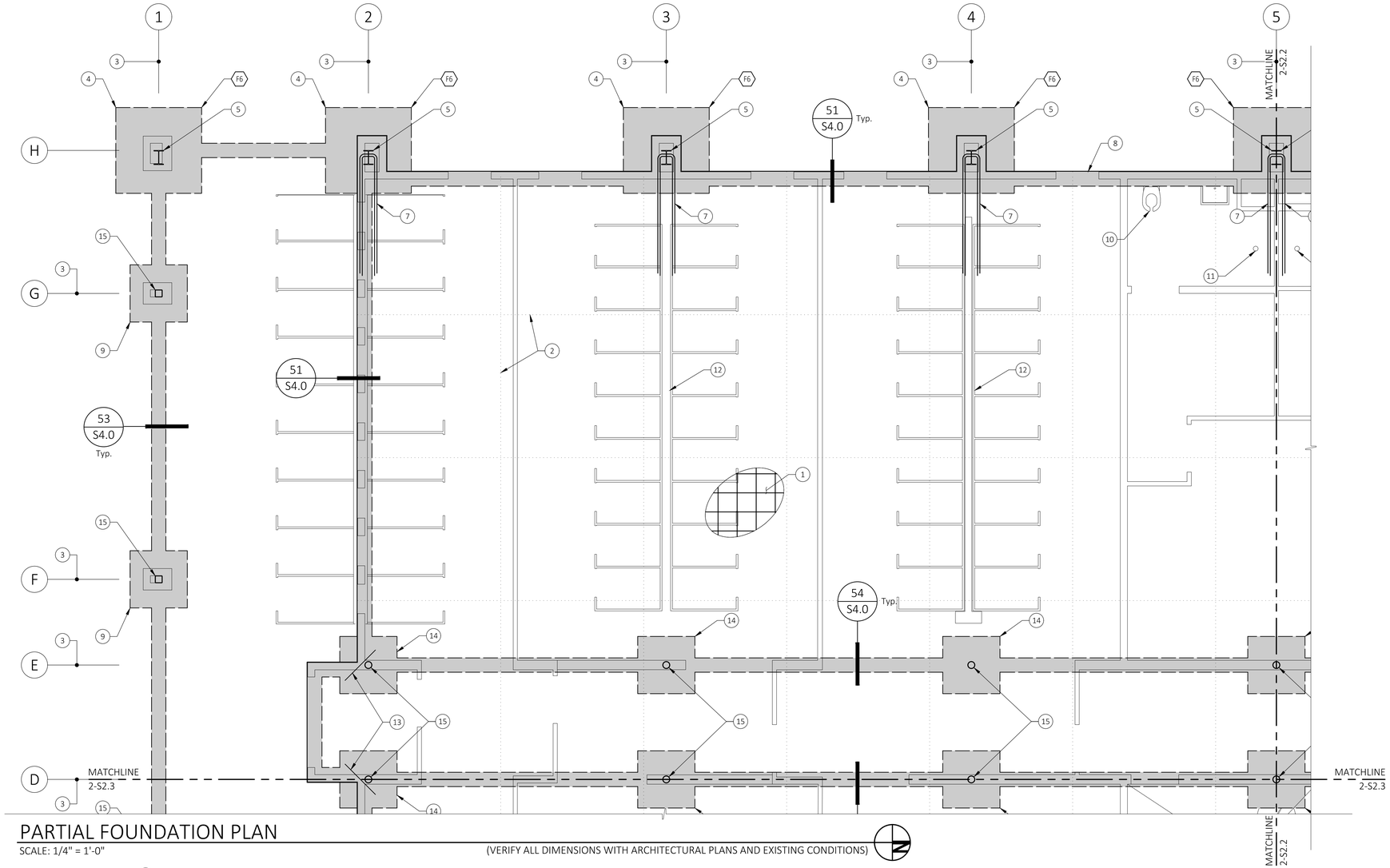

PARTIAL FOUNDATION PLAN

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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

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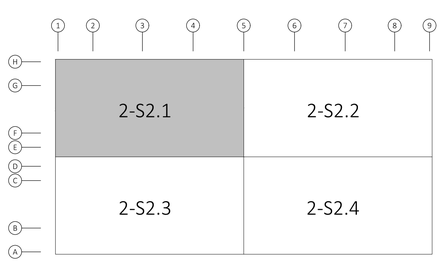

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2220 TULARE STREET
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Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

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Sheet No:

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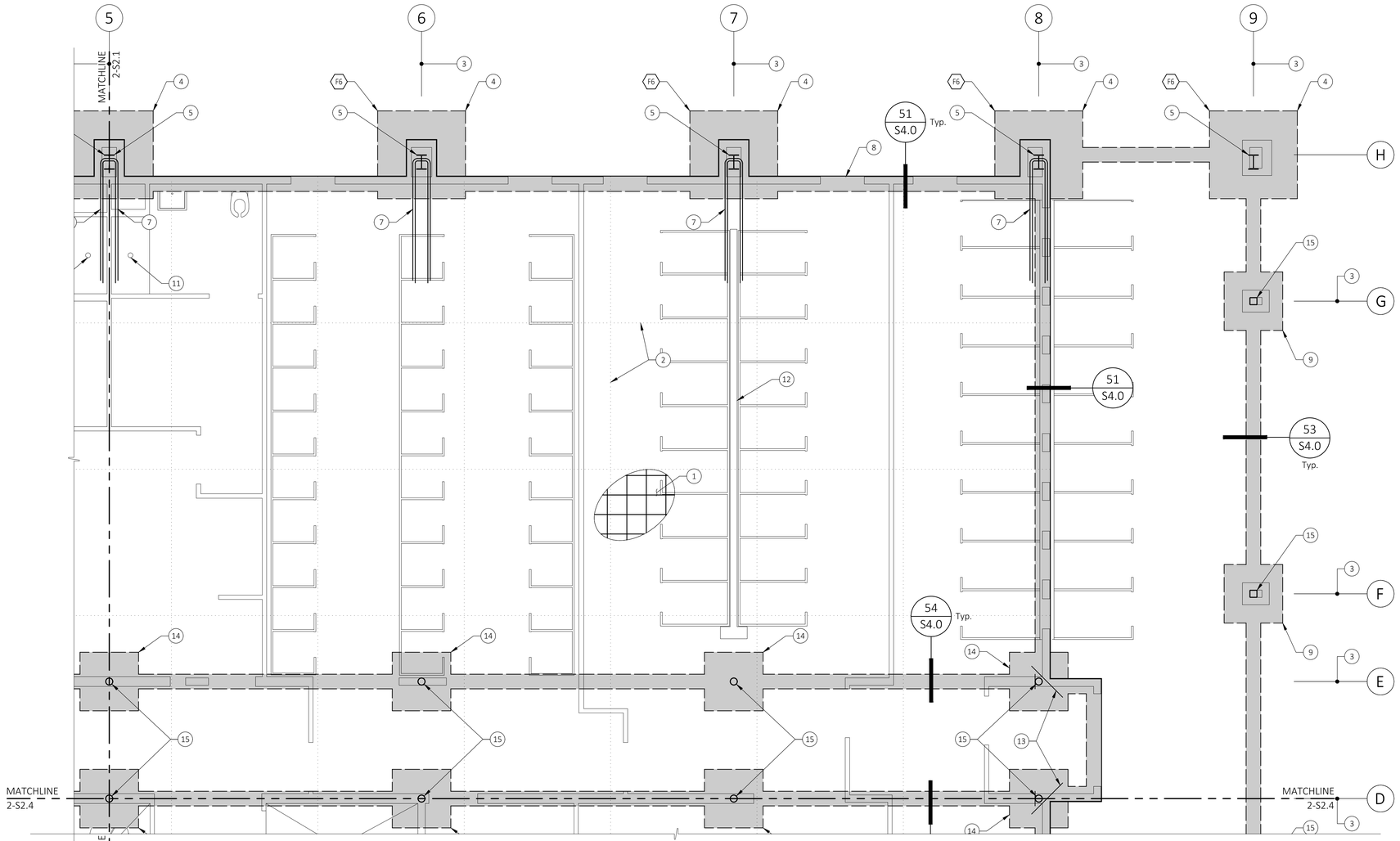

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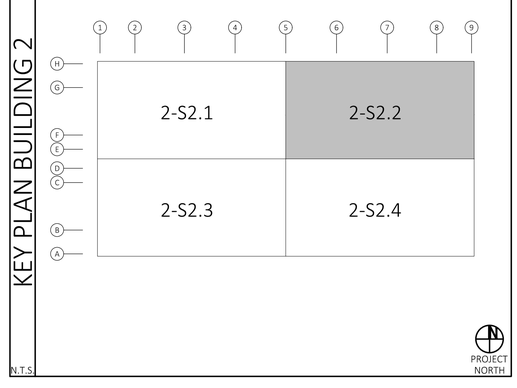
   A. See details 24/S4.0 at slab penetration
12. Trench drain per plumbing drawings
   A. See details 34/S4.0
13. #5 x 36" long trim bar typical at interior slab corners
14. 4'-0" Square x 24" deep square pad footing w/ 6-#5 horizontal bars evenly spaced, 3" up from the bottom
   A. Centered on column
   B. See detail 12/S4.1

Footing Size and Reinforcing			Allowable Reactions (Service)		
Mark	Dimensions	Reinforcing	Vertical [k]	Uplift [k] Exterior	Uplift [k] Corner
F6	6'-0" x 6'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	109.4	14.5	11.2

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.

KEY PLAN BUILDING 2



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Development Services and Capital Projects Division
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

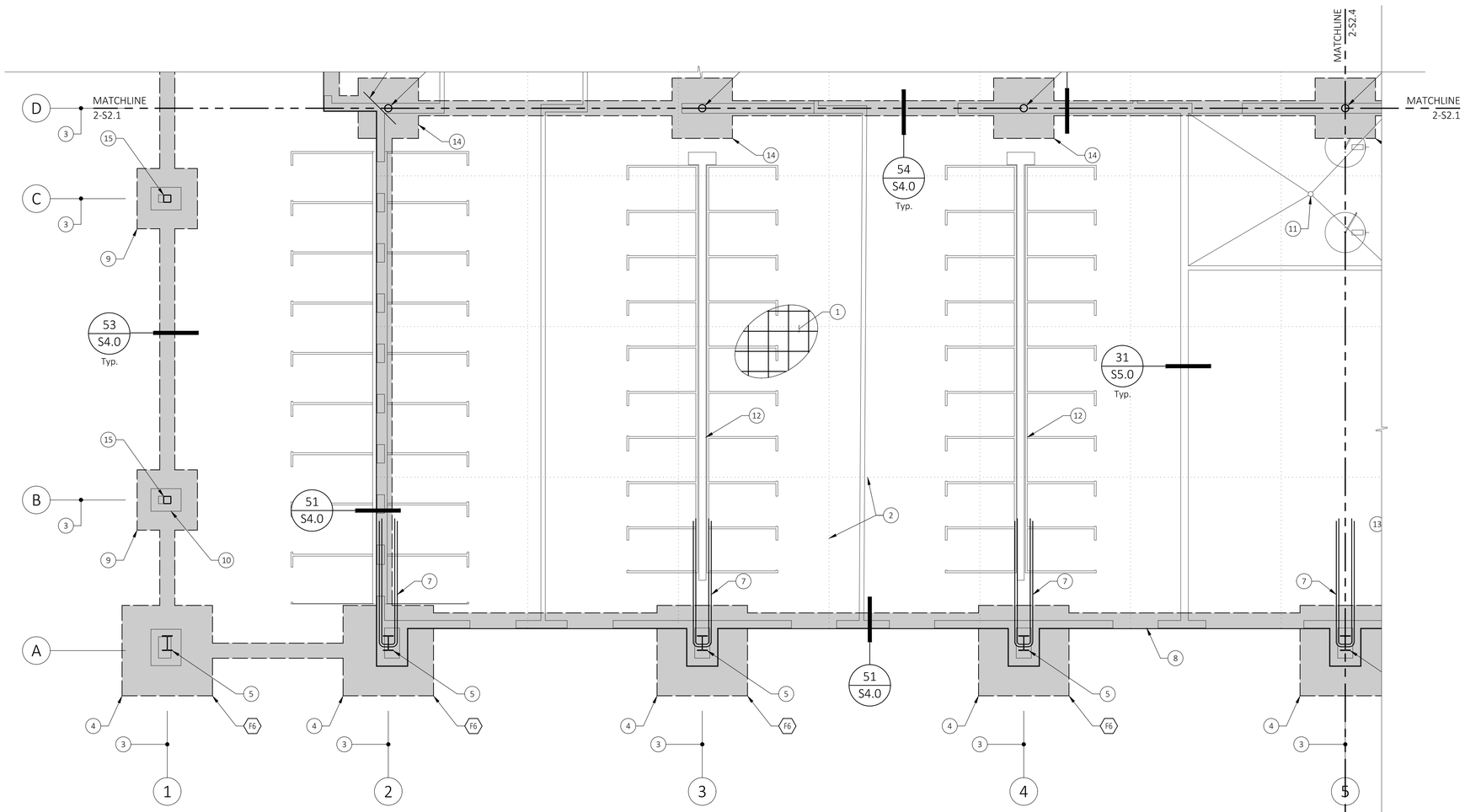
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

2-S2.2



PARTIAL FOUNDATION PLAN

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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

FOUNDATION REFERENCE NOTES: (#)

1. 6" Thick concrete slab with #5 horizontal bars @ 18" o.c. each direction at mid-depth
   A. See detail 12/S4.0
2. Concrete Control Joint
   A. Joints shall be spaced at 10'-0" o.c. max. each direction
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   A. See plan and footing schedule for minimum footing size
   B. Centered on column bolt group
   C. U.N.O. on plan, see detail 11/S4.1
5. Steel frame column and bolt group per Metal Building Manufacturer (MBM)
   A. See anchor bolt plan by MBM for placement
   B. Embed anchor bolts 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 44/S4.0. Bolt diameters shall be as indicated on MBM Anchor Rod Plan
   D. Special inspection required, see Sheet S1.1
   E. See detail 43/S4.0 for thrust angle at typical metal building columns
6. 2 - #5 hairpins at column anchor bolt group, with 16'-0" legs
   A. See details 31/S4.0 & 32/S4.0
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   A. See detail 33/S4.0
8. Edge of slab
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Footing Size and Reinforcing			Allowable Reactions (Service)		
Mark	Dimensions	Reinforcing	Vertical [k]	Uplift [k] Exterior	Uplift [k] Corner
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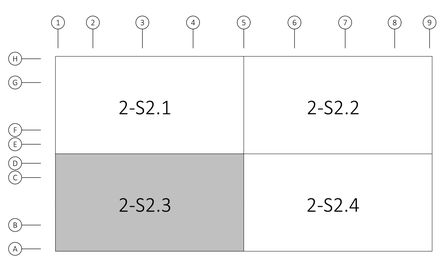
KEY PLAN BUILDING 2



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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

PARTIAL FOUNDATION PLAN

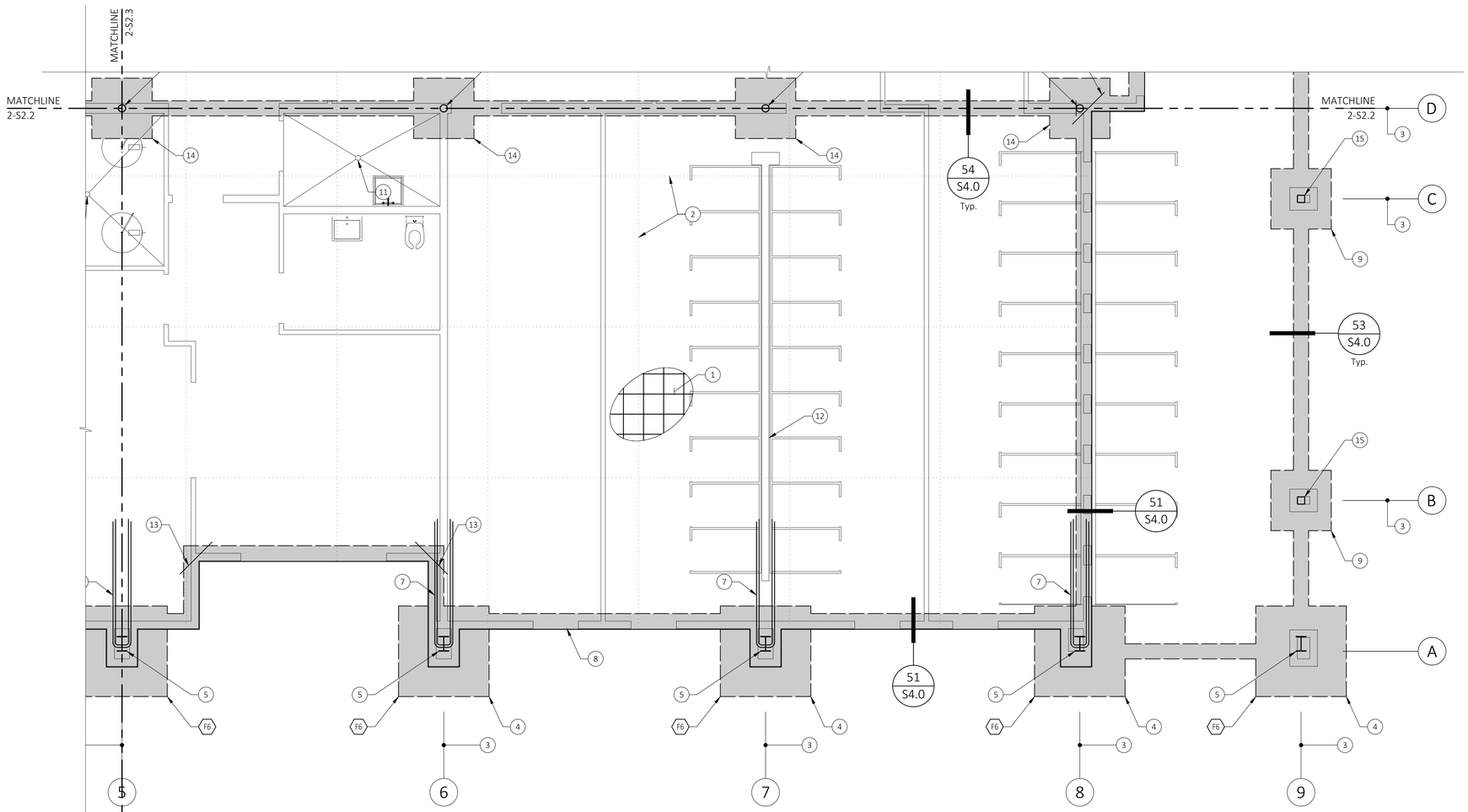
Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

2-S2.3



PARTIAL FOUNDATION PLAN

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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

FOUNDATION REFERENCE NOTES: (#)

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Mark	Dimensions	Reinforcing	Vertical [k]	Uplift [k]	
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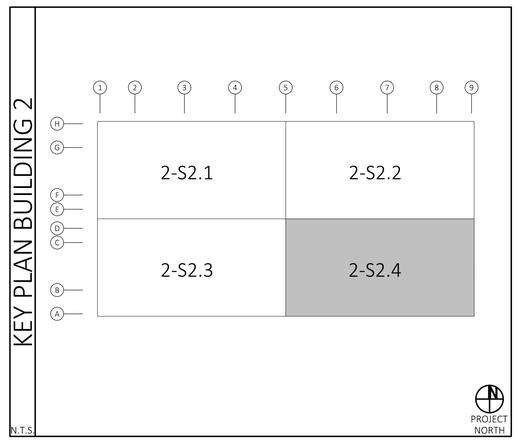
KEY PLAN BUILDING 2



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FOR REVIEW

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

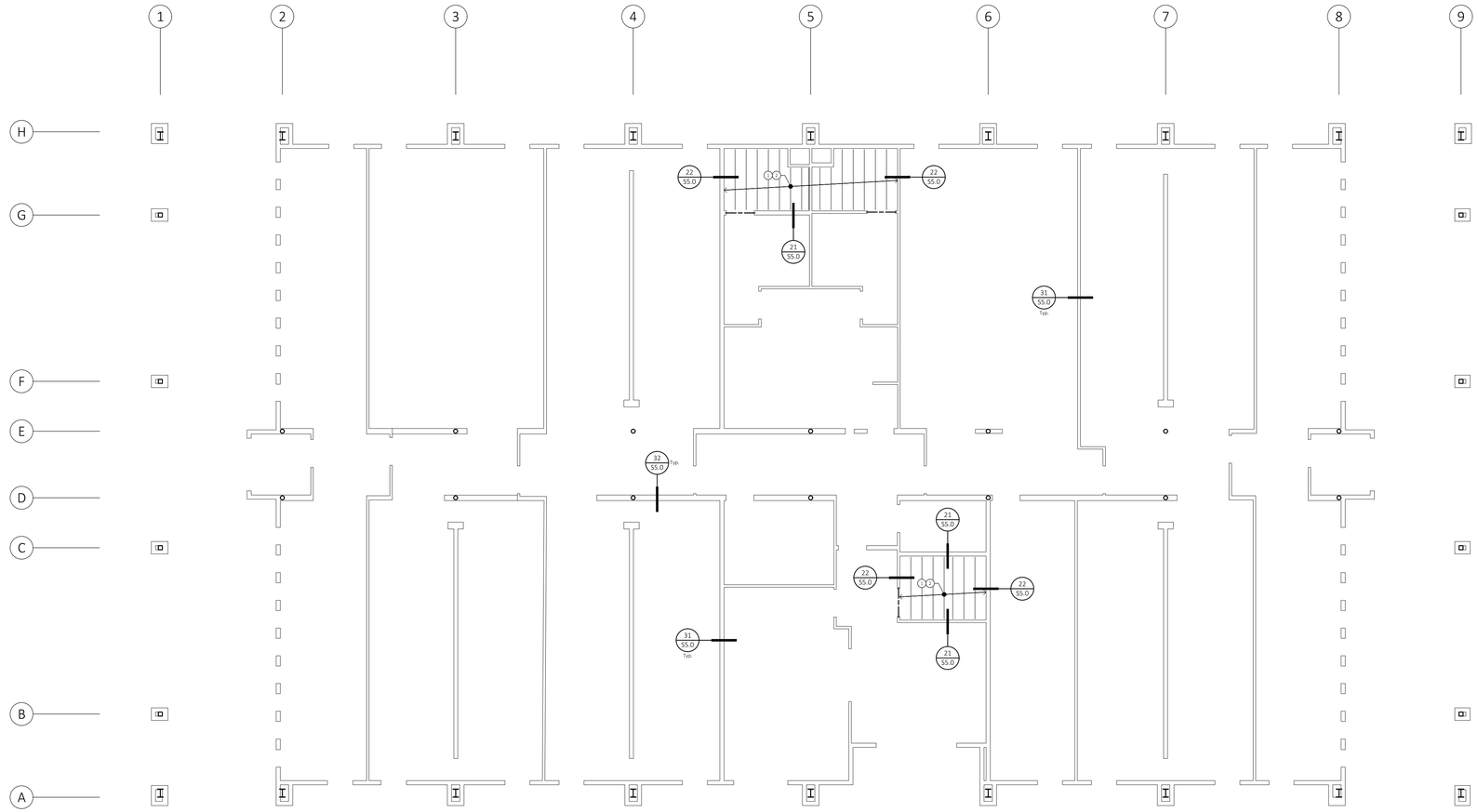
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

2-S2.4



CEILING FRAMING PLAN

SCALE: 1/8" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

FLOOR FRAMING REFERENCE NOTES: #

1. General Typical Notes: See Structural Notes, Sheets S1.0, S1.1, and S1.2
   A. See Architectural and Metal Building Drawings for all embedded items and non-structural components.
   B. Refer to typical light gage steel stud framing details 11, 12, 13, and 14 on Sheet S5.0
2. Typical Ceiling Joist: 600S162-43 @ 16" o.c.
   A. Provide 362S162-33 flat strong-back across tops of joists at mid-span. Attach with 2-#8 SMS per joist flange.

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS / MEET & GREET
Building No.: 2

CEILING FRAMING PLAN

Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

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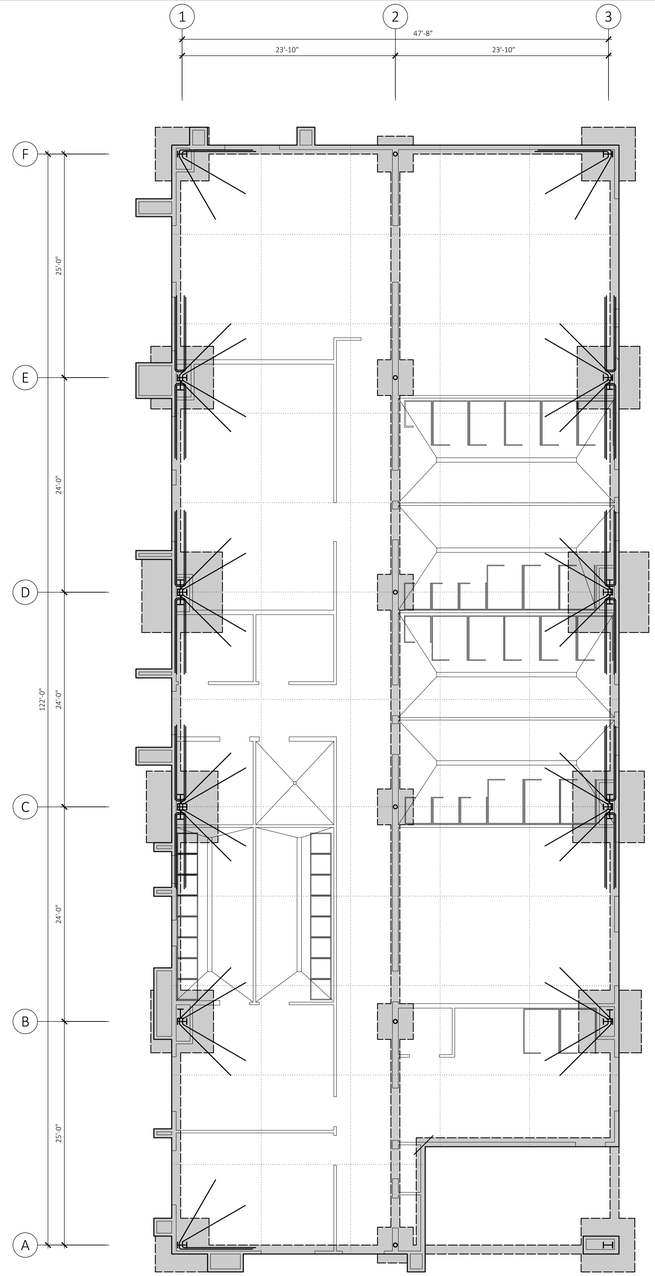
THE COUNTY OF FRESNO 1856

Sheet No:

2-S3.1



OVERALL FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

GENERAL FOUNDATION NOTES:

A. See Structural Notes, Sheets S1.0 & S1.1

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 xx dated xx

D. Prior to the Contractor requesting a Building Department Foundation Inspection, the project Geotechnical Engineer shall advise the Building Official in writing that:
   1. The building pad was prepared in accordance with the approved construction documents and project Geotechnical Engineer's recommendations
   2. The utility trenches have been properly backfilled and compacted
   3. The foundation excavations comply with the project Geotechnical Engineer's recommendations and are founded into firm competent material
   4. The soils expansion index is verified

E. For depiction of building pad preparation, see detail xx

F. See Architectural Drawings for all embedded items and non-structural components associated with concrete work

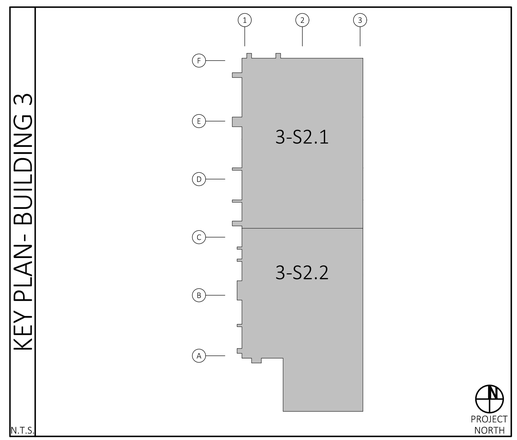
G. For typical rebar bends and laps, see details 21, 22, & 23 on sheet S4.0

H. For typical intersecting footing configuration, see detail 14/S4.0

I. For typical pipe through footing, see detail 11/S4.0

J. For typical pipe penetration in slab on grade, see detail 24/S4.0

KEY PLAN- BUILDING 3



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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

OVERALL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

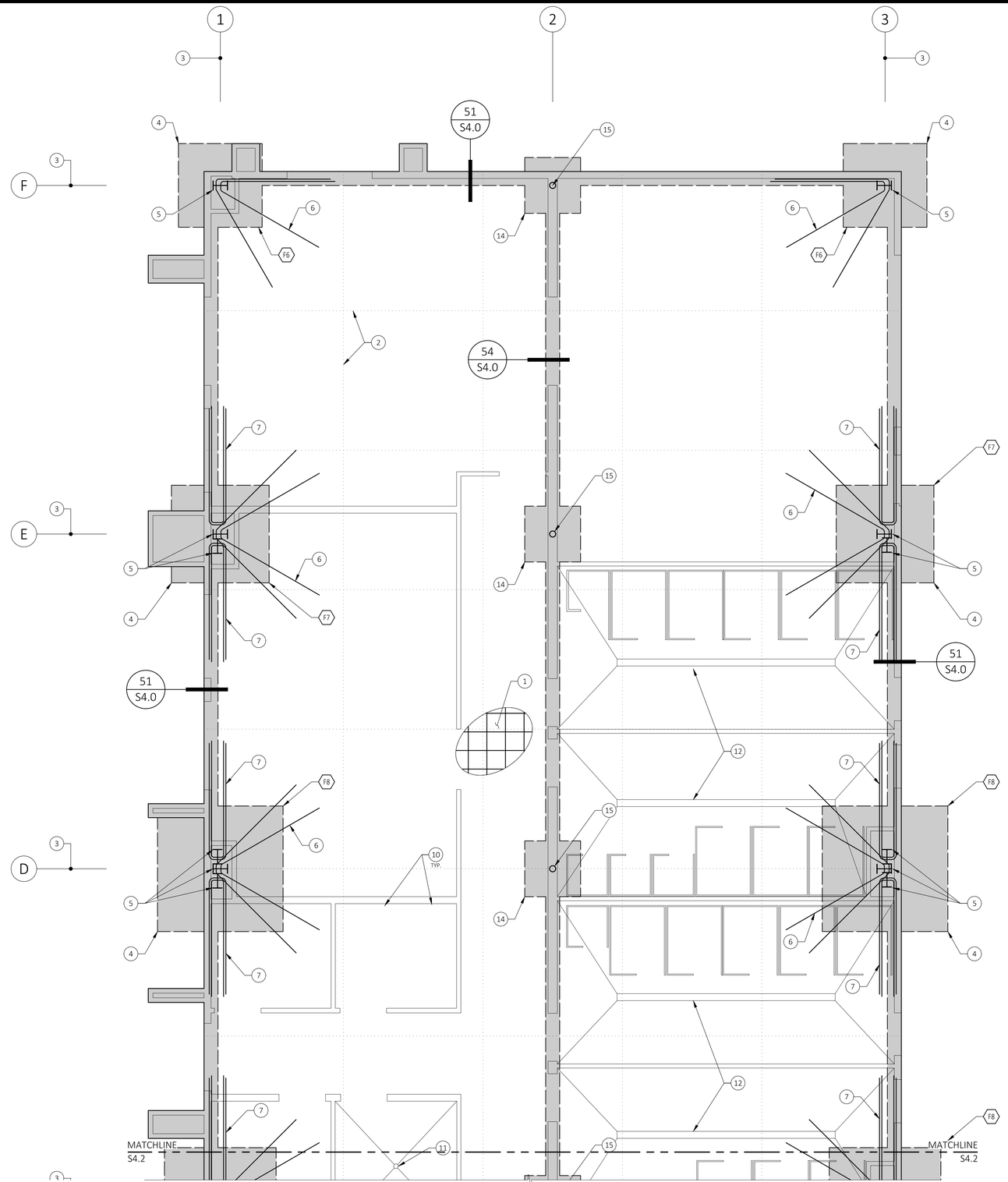
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

3-S2.0



PARTIAL FOUNDATION PLAN

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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

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F8	8'-0" x 8'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	194.5	21.2	-

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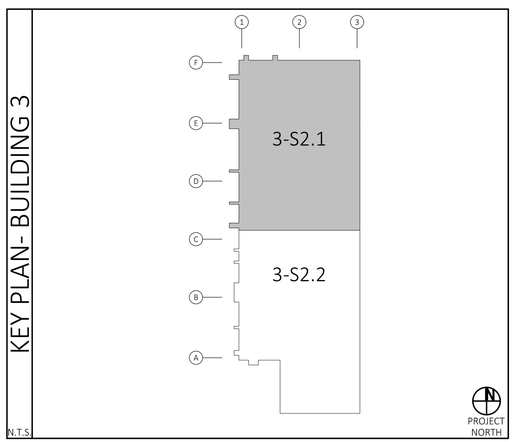

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FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

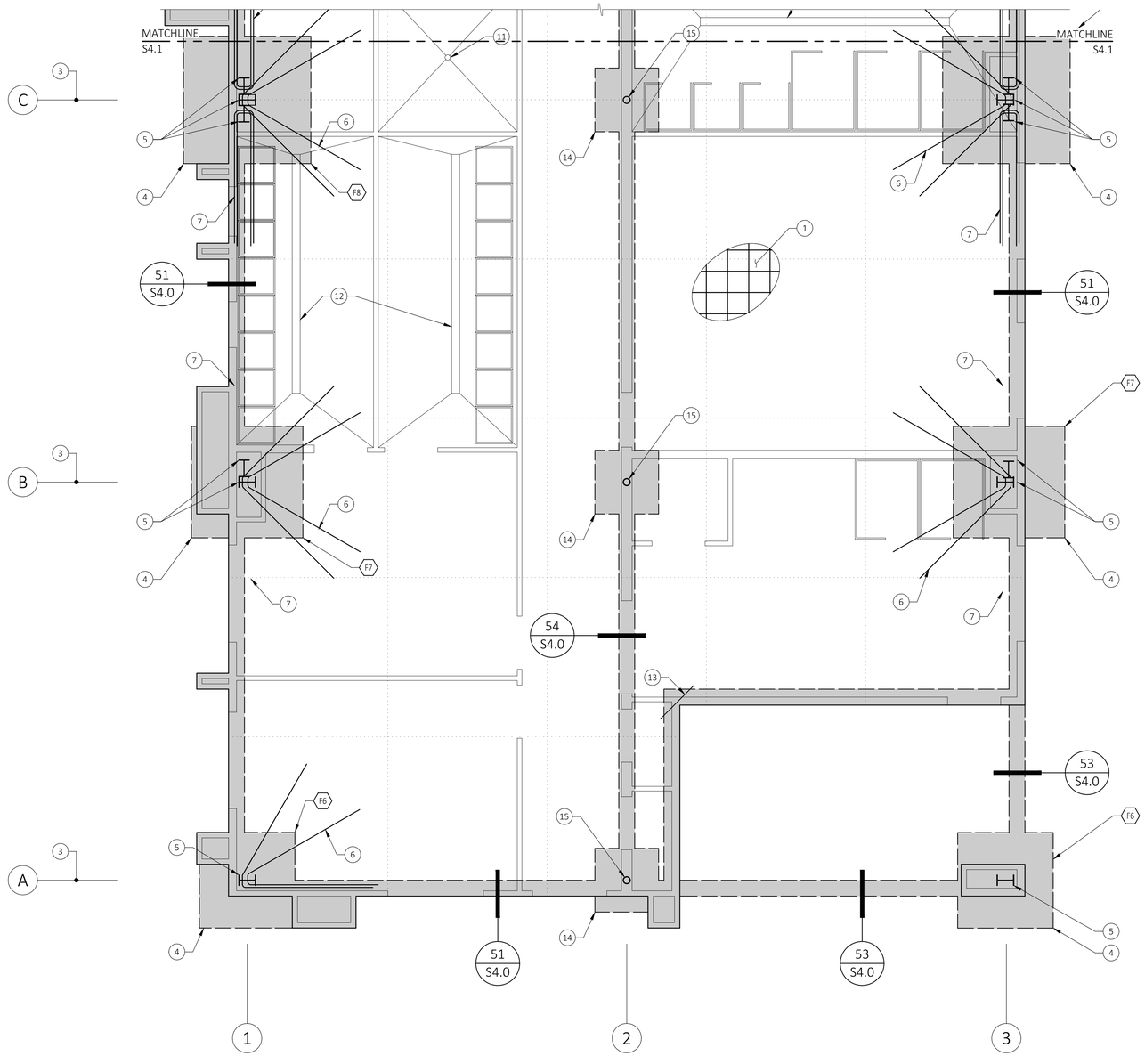
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

3-S2.1



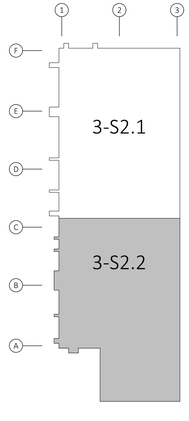
FOUNDATION REFERENCE NOTES: (#)

1. 6" Thick concrete slab with #5 horizontal bars @ 18" o.c. each direction at mid-depth
   A. See detail 12/S4.0
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/S4.0
3. Centerline of Pre-Manufactured Metal Building frame column and pad footing
4. 30" deep square pad footing w/ #5 horizontal bars @ 9" o.c. each direction, 3" up from the bottom and 3" down from the top
   A. See plan and footing schedule for minimum footing size
   B. Centered on column bolt group
   C. U.N.O. on plan, see detail 11/S4.1
5. Steel frame column and bolt group per Metal Building Manufacturer (MBM)
   A. See anchor bolt plan by MBM for placement
   B. Embed anchor bolts 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 44/S4.0. Bolt diameters shall be as indicated on MBM Anchor Rod Plan
   D. Special inspection required, see Sheet S1.1
   E. See detail 43/S4.0 for thrust angle at typical metal building columns
6. 2 - #5 hairpins at column anchor bolt group, with 16'-0" legs
   A. See details 31/S4.0 & 32/S4.0
7. 2-#5 Hairpins at portal frame column anchor group, with 16'-0" legs
   A. See detail 33/S4.0
8. Edge of slab
9. Not Used
10. Plumbing fixture, refer to architectural drawings
11. Drain per structural drawings
    A. See details 24/S4.0 at slab penetration
12. Trench drain per structural drawings
    A. See details 34/S4.0
13. #5 x 36" long trim bar typical at interior slab corners
14. 4'-0" Square x 18" deep square pad footing w/ 6-#5 horizontal bars evenly spaced, 3" up from the bottom
    A. Centered on column
    B. See detail 12/S4.1

Footing Size and Reinforcing			Allowable Reactions (Service)		
				Uplift [k]	
Mark	Dimensions	Reinforcing	Vertical [k]	Exterior	Corner
F6	6'-0" x 6'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	109.4	-	11.2
F7	7'-0" x 7'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	148.9	17.7	-
F8	8'-0" x 8'-0" x 2'-6"	#5 BARS @ 9" o.c., EACH DIRECTION, TOP & BOTT.	194.5	21.2	-

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.

KEY PLAN- BUILDING 3



N.T.S.

PROJECT NORTH

PARTIAL FOUNDATION PLAN

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

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

SSG Structural Engineers, LLP
805.439.2110 ssgse.com
811 El Capitan Way, Suite 240, San Luis Obispo, CA 93401
8405 N. Fresno Street, Suite 120, Fresno, CA 93720

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REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

PARTIAL FOUNDATION PLAN

Project No: S19447 **Date:** 6/10/2020

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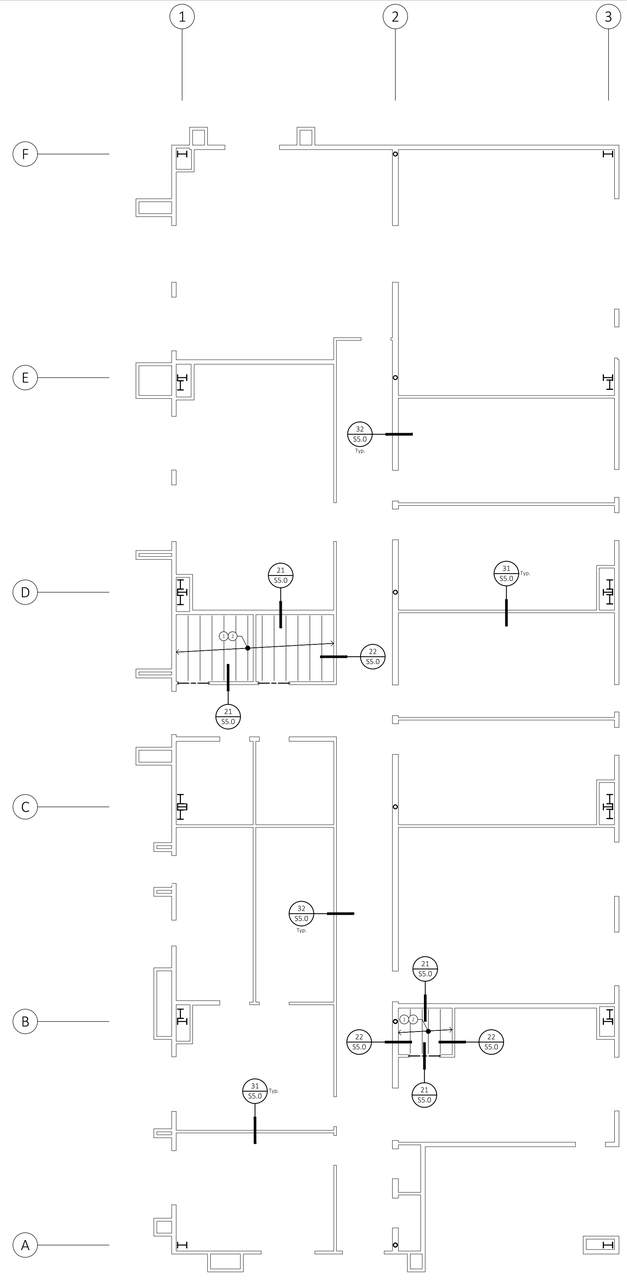
THE COUNTY OF FRESNO 1856

Sheet No:

3-S2.2



FLOOR FRAMING REFERENCE NOTES: (#)

(1.) General Typical Notes: See Structural Notes, Sheets S1.0, S1.1, and S1.2
- A. See Architectural and Metal Building Drawings for all embedded items and non-structural components.
- B. Refer to typical light gage steel stud framing details 11, 12, 13, and 14 on Sheet S5.0

2. Typical Ceiling Joist: 600S162-43 @ 16" o.c.
- A. Provide 362S162-33 flat strong-back across tops of joists at mid-span. Attach with 2-#8 SMS per joist flange.

CEILING FRAMING PLAN

SCALE: 1/8" = 1'-0"

(VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

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FOR REVIEW

LICENSED ARCHITECT NOEL ROGER DAVIDSON C -27818 REN: 10-31-21 STATE OF CALIFORNIA

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Project

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Building No.: 3

CEILING FRAMING PLAN

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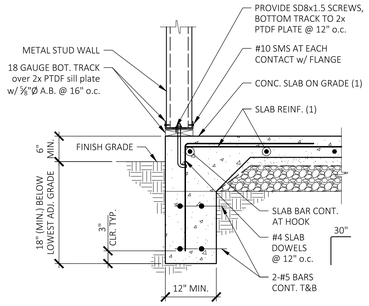
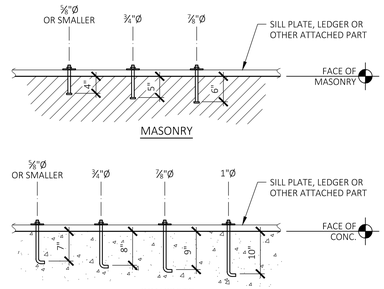


NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

CONT. EXTERIOR FTG. (51)

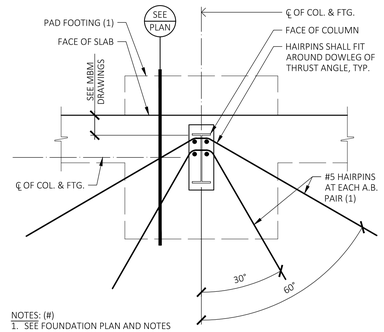
N.T.S.



NOTES: (#)
1. EMBEDMENT DEPTHS LISTED ARE TYPICAL, UNLESS NOTED OTHERWISE

TYPICAL A.B. EMBEDMENT (41)

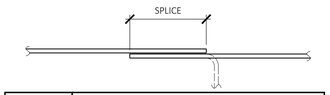
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

FLARED HAIRPIN (31)

N.T.S.

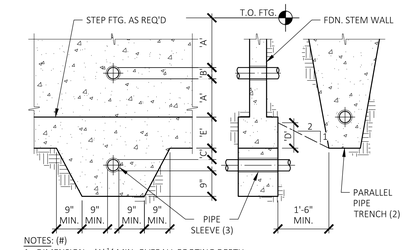


Bar Size	Concrete Reinforcing Splices (1)(2) f'_c = 3,000 psi		
	Class A Splice (3)(4)	Class B Splice (3)	f_y (Min.)
#3	15"	19"	40 ksi
#4	29"	38"	60 ksi
#5	36"	47"	60 ksi
#6	43"	56"	60 ksi
#7	63"	81"	60 ksi

NOTES: (#)
1. LAP LENGTHS LISTED APPLY TO ALL LOCATIONS: VERTICAL, HORIZONTAL, TOP, BOTTOM, AND SITE WALLS
2. WHERE BARS OF A DIFFERENT SIZE ARE LAPPED, THE LAP LENGTH SHALL BE THE LENGTH REQUIRED BY THE LARGER BAR
3. ALL SPLICES SHALL BE CONSIDERED CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE
4. SPLICES OF SLAB ON GRADE REINFORCEMENT MAY UTILIZE CLASS A SPLICE LENGTHS

TYPICAL LAP SPLICES (21)

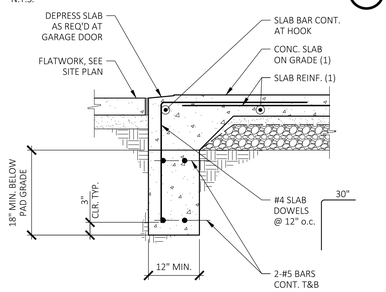
N.T.S.



NOTES: (#)
1. DIMENSION - 'A' ½ MIN. OVERALL FOOTING DEPTH
   'B' ½ MAX. OVERALL FOOTING DEPTH
   'C' 4" MIN.
   'D' 9" MIN.
   'E' NO PIPE TO BE PLACED IN THIS AREA
2. PIPE TRENCHES PARALLEL TO FOOTING NOT PERMITTED BETWEEN LINES ON EACH SIDE OF FOOTING
3. G.I.S.M. OR EQUIVALENT PIPE SLEEVE, WITH ½" CLEAR ALL AROUND PIPE

PIPE THROUGH FOOTING (11)

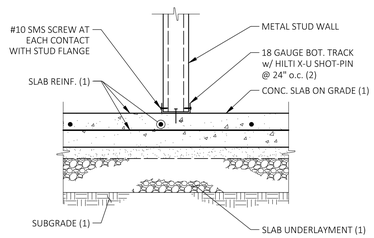
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

FTG. AT OPENING (52)

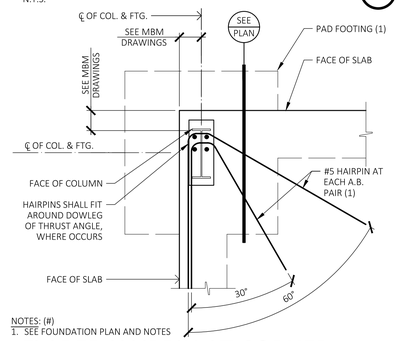
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. INSTALL PER MANUFACTURERS RECOMMENDATION AND ICC-ES ESR-2269. 1" MIN. PENETRATION AT SLAB

WALL ANCHORAGE (42)

N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

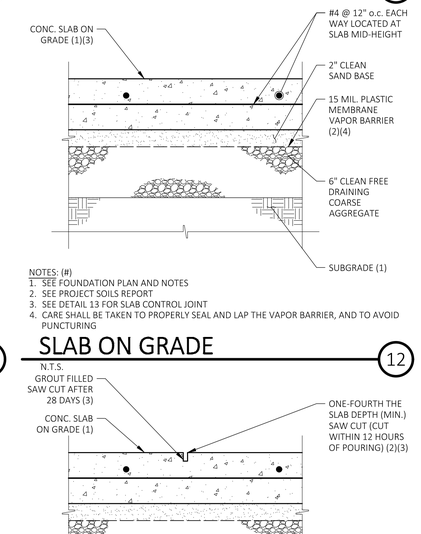
FLARED HAIRPIN AT CORNER (32)

N.T.S.

Bar Size	Dimension of Standard Hooks and Bends			
	D	J	B ($4d_b$) [2½" min.]	C ($12d_b$)
#3	1½"Ø	2¼"	2½"	4½"
#4	2"Ø	3"	2½"	6"
#5	2½"Ø	3¾"	2½"	7½"
#6	4½"Ø	6"	3"	9"
#7	5½"Ø	7"	3½"	10½"
#8	6"Ø	8"	4"	12"
#9	9"Ø	11¼"	4½"	13½"
#10	10"Ø	12½"	5"	15"

REBAR HOOKS & BENDS (22)

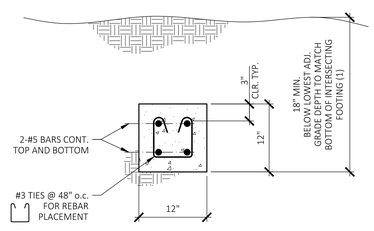
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE PROJECT SOILS REPORT
3. SEE DETAIL 13 FOR SLAB CONTROL JOINT
4. CARE SHALL BE TAKEN TO PROPERLY SEAL AND LAP THE VAPOR BARRIER, AND TO AVOID PUNCTURING

SLAB ON GRADE (12)

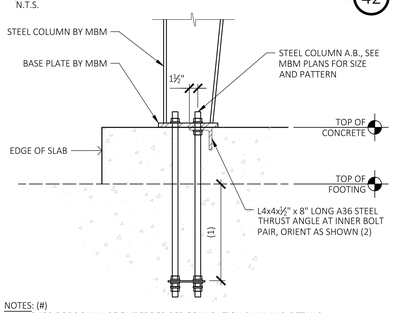
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

CONCRETE TIE BEAM (53)

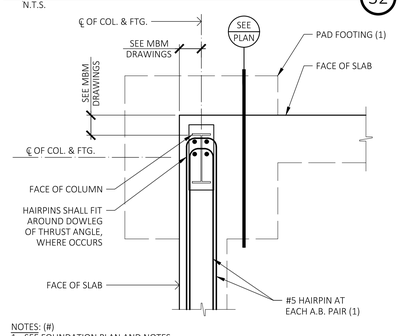
N.T.S.



NOTES: (#)
1. ANCHOR RODS SHALL BE EMBEDDED PER FOUNDATION PLAN AND DETAILS INTO FIRST POUR
2. PROVIDE HEX NUT AT BASE OF THRUST ANGLE

THRUST ANGLE (43)

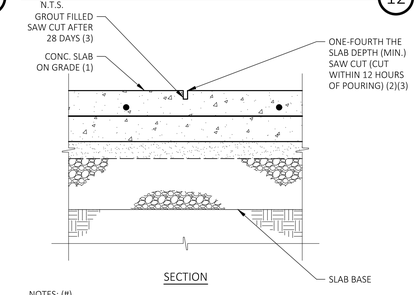
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

STRAIGHT HAIRPIN (33)

N.T.S.



Bar Size	Dimension of Standard Bends		
	D	E	F ($6d_b$) [3" min.]
#3	1½"Ø	2¼"	3"
#4	2"Ø	3"	3"
#5	2½"Ø	3¾"	3¾"

TIE AND STIRRUP BENDS (23)

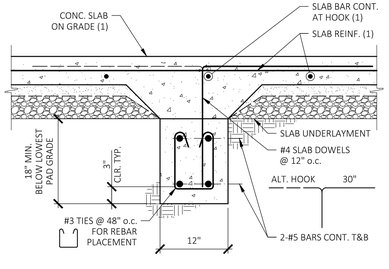
N.T.S.

SECTION

NOTES: (#)
1. SEE TYPICAL SLAB SECTION FOR SLAB CONSTRUCTION AND REINFORCEMENT
2. PROVIDE JOINTS @ 10" o.c. (MAX.) UNLESS OTHERWISE NOTED ON PLANS
3. CONTRACTOR OPTION: A PLASTIC 'ZIP STRIP' OR 'QUICK-JOINT' MAY BE USED IN LIEU OF SAW CUT

SLAB CONTROL JOINT (13)

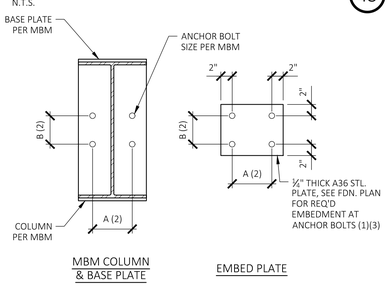
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

CONCRETE TIE BEAM (54)

N.T.S.



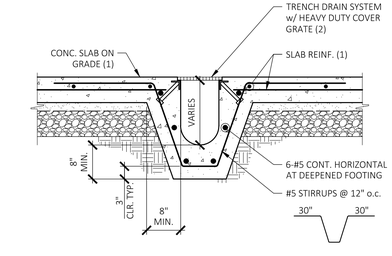
MBM COLUMN & BASE PLATE

EMBED PLATE

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. DIMENSIONS 'A' AND 'B' PER METAL BUILDING MANUFACTURER
3. PROVIDE DOUBLE NUT ABOVE AND BELOW PLATE

COLUMN A.B. GAGE PLATE (44)

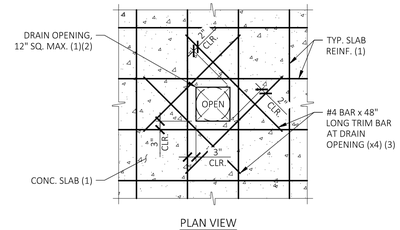
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE ARCHITECTURAL PLANS FOR SPECIFIC PRODUCT INFORMATION

TRENCH DRAIN (34)

N.T.S.

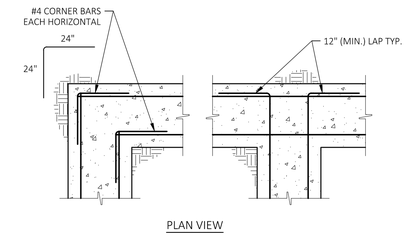


PLAN VIEW

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE ARCHITECTURAL PLAN
3. OR 1" WITHIN FACE OF CURB AT WALL

OPENING IN S.O.G. (24)

N.T.S.



PLAN VIEW

NOTES: (#)
1. TYPICAL HORIZONTAL FOOTING STEEL SHOWN
2. VERTICAL STEEL NOT SHOWN FOR CLARITY
3. SEE SPECIFIC DETAILS FOR STEEL SIZE, NUMBER, AND SPACING

TYP. FOOTING CORNER (14)

N.T.S.

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California Licensed Architect No. C-27818
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Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: N/A
Building No.: N/A

FOUNDATION DETAILS

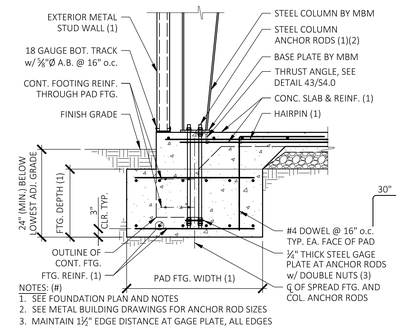
Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

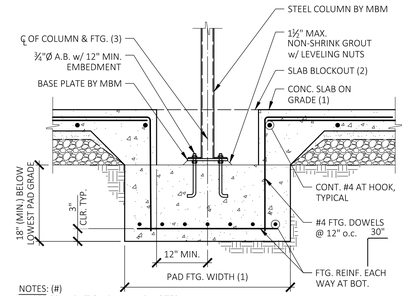
S4.0



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE METAL BUILDING DRAWINGS FOR ANCHOR ROD SIZES
3. MAINTAIN 1½" EDGE DISTANCE AT GAGE PLATE, ALL EDGES

EXTERIOR PAD FOOTING (11)

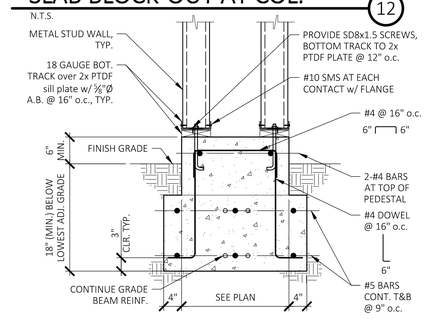
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. POUR REMAINDER OF SLAB AFTER COLUMN HAS BEEN PLACED AND SECURED
3. CENTER COLUMN FOOTING ON BUILDING LINE

SLAB BLOCK-OUT AT COL. (12)

N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

EXTERIOR PEDESTAL FTG. (13)

N.T.S.

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N.T.S. (52) N.T.S. (42) N.T.S. (32) N.T.S. (22)

N.T.S. (53) N.T.S. (43) N.T.S. (33) N.T.S. (23)

N.T.S. (54) N.T.S. (44) N.T.S. (34) N.T.S. (24) N.T.S. (14)

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8405 N. Fresno Street, Suite 120, Fresno, CA 93720

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REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PARRA No. 5[illegible] STRUCTURAL STATE OF CALIFORNIA — FOR REVIEW

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
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California Licensed Architect No. C-27818
Ren. 10-31-21
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: N/A
Building No.: N/A

OVERALL FOUNDATION PLAN

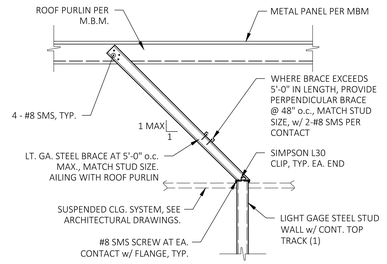
Project No: S19447 **Date:** 6/10/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

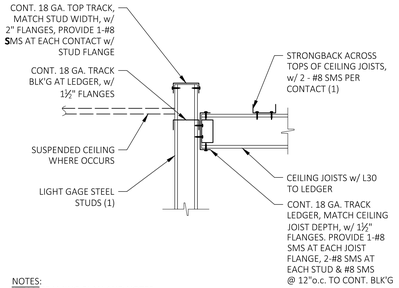
S4.1



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

PARTITION WALL BRACING

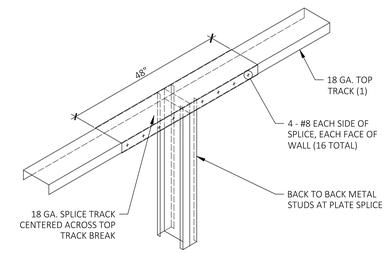
N.T.S. 31



NOTES:
1. SEE FRAMING PLAN AND NOTES

JOIST AT STUD WALL

N.T.S. 21



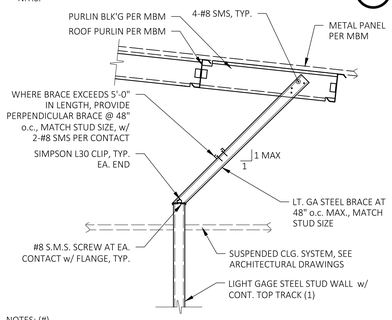
NOTES:
1. SEE FRAMING PLAN AND NOTES

TYP. TOP TRACK SPLICE

N.T.S. 11

N.T.S. 41

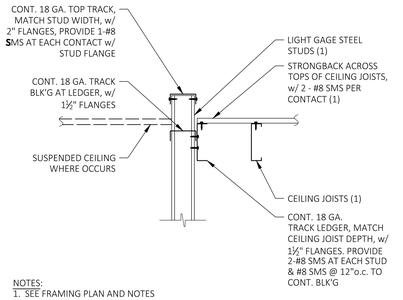
N.T.S. 51



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

PARTITION WALL BRACING

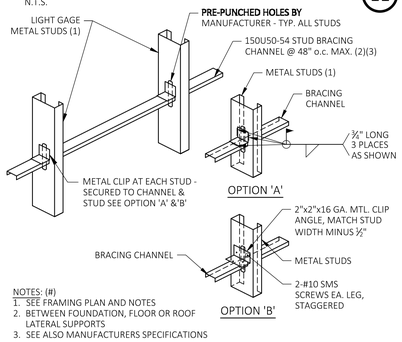
N.T.S. 32



NOTES:
1. SEE FRAMING PLAN AND NOTES

JOIST AT STUD WALL

N.T.S. 22



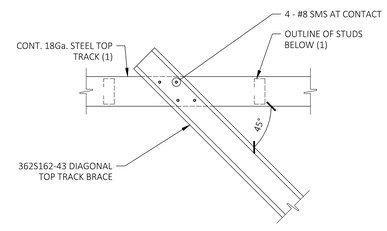
NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. BETWEEN FOUNDATION, FLOOR OR ROOF LATERAL SUPPORTS
3. SEE ALSO MANUFACTURERS SPECIFICATIONS

MTL. STUD WALL BRACING

N.T.S. 12

N.T.S. 42

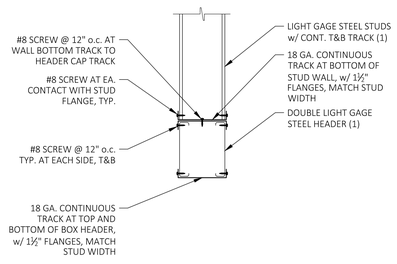
N.T.S. 52



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

TOP TRACK BRACING

N.T.S. 23



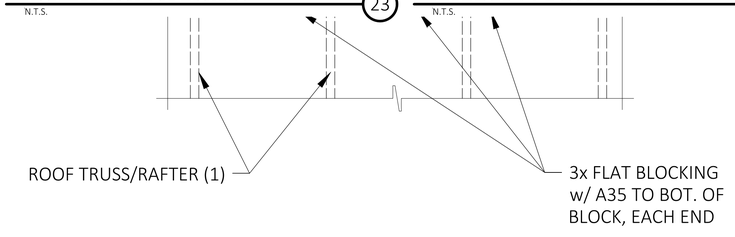
NOTES:
1. SEE FRAMING PLAN AND NOTES

TYP. STEEL BOX HEADER

N.T.S. 13

N.T.S. 43

N.T.S. 53



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. TYPICAL EACH SIDE OF PENETRATION

ROOF PENETRATION

N.T.S. 14

N.T.S. 34

N.T.S. 44

N.T.S. 54

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REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PARRA No. 94 STRUCTURAL STATE OF CALIFORNIA
FOR REVIEW

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: N/A
Building No.: N/A

FRAMING DETAILS

Project No: S19447 **Date:** 6/10/2020

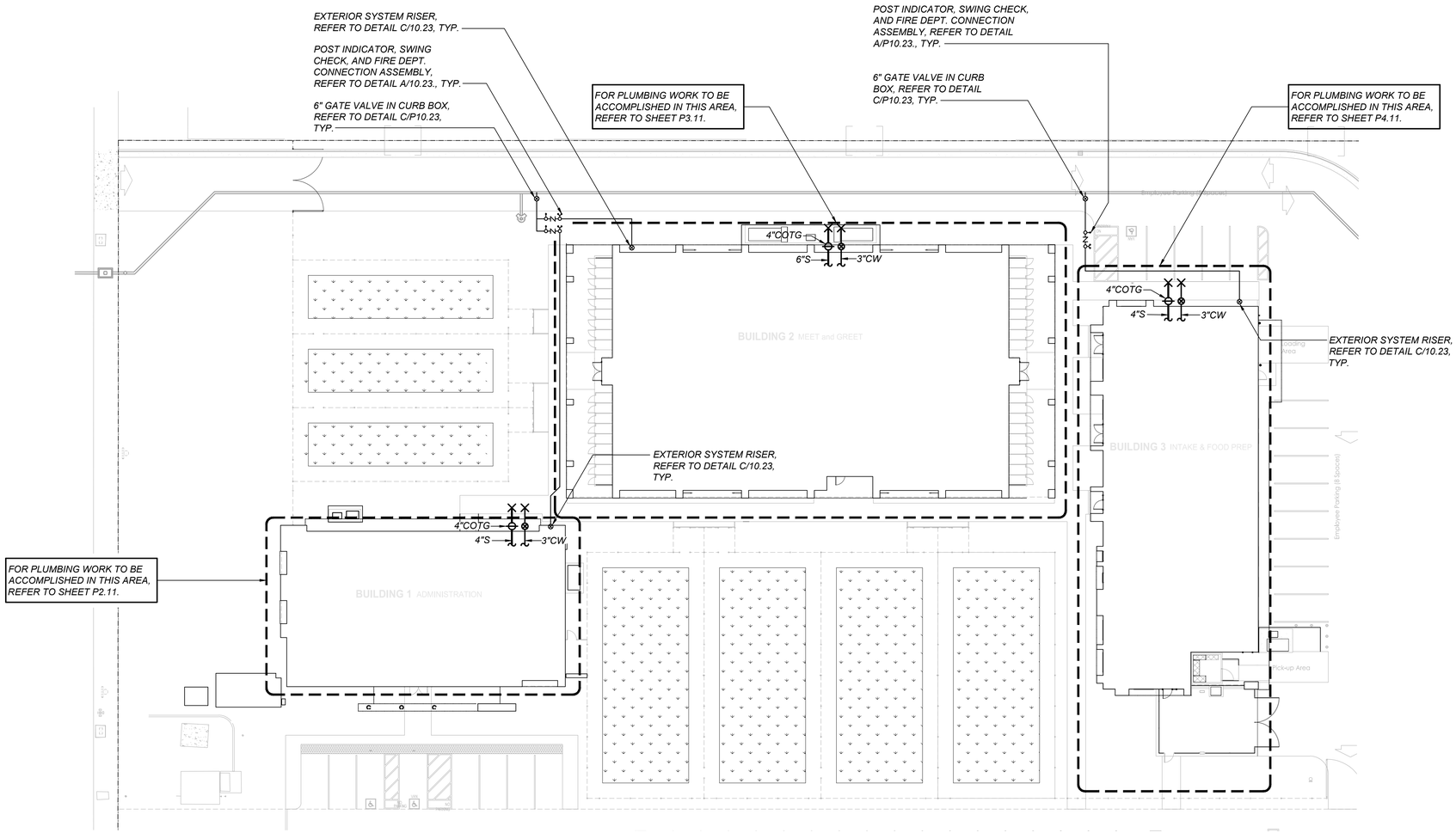
Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

S5.0



PLUMBING SITE PLAN

SCALE: 1" = 20'-0"

GENERAL PLUMBING NOTES:

1. THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

   CALIFORNIA CODE OF REGULATIONS
   TITLE 8, INDUSTRIAL RELATIONS
   TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
   TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS
   2019 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
   2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
   2019 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
   2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR

   NFPA 101 2015 EDITION
   OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

2. 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.

3. PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED.

4. ALL PIPING AND CONDUIT REQUIRING SEISMIC BRACE AND SUPPORT SHALL BE SUPPORTED PER MASON WEST, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED DISTRIBUTION SYSTEMS", 1ST EDITION, 2013, OSHPD PRE-APPROVED ANCHORAGE OPM-0043-13, OR OTHER OSHPD PRE-APPROVED SYSTEM.

5. 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.

6. FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.

7. INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.

8. 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.

9. BACKFLOW PREVENTER SHALL BE INSTALLED AT THE MINIMUM HEIGHT ABOVE FINISH GRADE AS ALLOWED BY GOVERNING AUTHORITY.

10. 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.

11. ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.

	PLUMBING LEGEND	
SYMBOL	ITEM	ABBR
	SOIL or WASTE	S or W
	VENT	V
	VENT RISER	VR
	VENT THRU ROOF	VTR
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
2#G	2 PSI GAS	2#G
5#G	5 PSI GAS	5#G
LPG	LIQUIFIED PETROLEUM GAS	LPG
GSM	GAS SERVICE MAIN BY THE LOCAL GAS UTILITY	GSM
C	CONDENSATE DRAIN	CD
RWL	RAIN WATER LEADER	RWL
OD	OVERFLOW DRAIN	OD
SD	STORM DRAIN	SD
IW	INDIRECT WASTE	IW
AW	ACID WASTE	AW
AV	ACID VENT	AV
	ACID VENT RISER	AVR
	ACID VENT THRU ROOF	AVTR
A	COMPRESSED AIR	A
O_2	OXYGEN	O_2
VAC	VACUUM	VAC
MA	MEDICAL AIR	MA
F	FIRE PROTECTION LINE	F
	EXISTING PIPING	(E)
(E)	EXISTING	
(N)	NEW	
	ABOVE CEILING	ABV CLG
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
BFF	BELOW FINISH FLOOR	BFF
	INVERT ELEVATION	I.E.
	TYPICAL	TYP
	CONTINUATION	CONT
	DOWN	DN
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	PIPING TURN UP	
	PIPING TURN DOWN	
	POINT OF CONNECTION	POC
	SHUT-OFF VALVE IN BOX	SOV
	SHUT-OFF VALVE	SOV
	SHUT-OFF VALVE IN RISER	-
	SHUT-OFF VALVE IN DROP	-
	GATE VALVE	-
	BUTTERFLY VALVE	-
	GLOBE VALVE	-
	GAS PRESSURE REGULATOR	GPR
	CHECK VALVE	-
	PLUG VALVE	-
	BALL VALVE	-
	BALANCE COCK	-
	REDUCER	-
	MANHOLE	MH
	FLOW LINE	FL
	UNION	-
	RELIEF VALVE	-
	BALANCING VALVE	-
	PRESSURE GAUGE	-
	THERMOMETER	-
	FIRE HYDRANT	FH
	POST INDICATOR VALVE	PIV
	FIRE DEPT. CONNECTION	FDC

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. CONTICHINI M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

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Legend

Keynotes

Key Plan

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ARCHITECT:
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

PLUMBING SITE PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

P1.1

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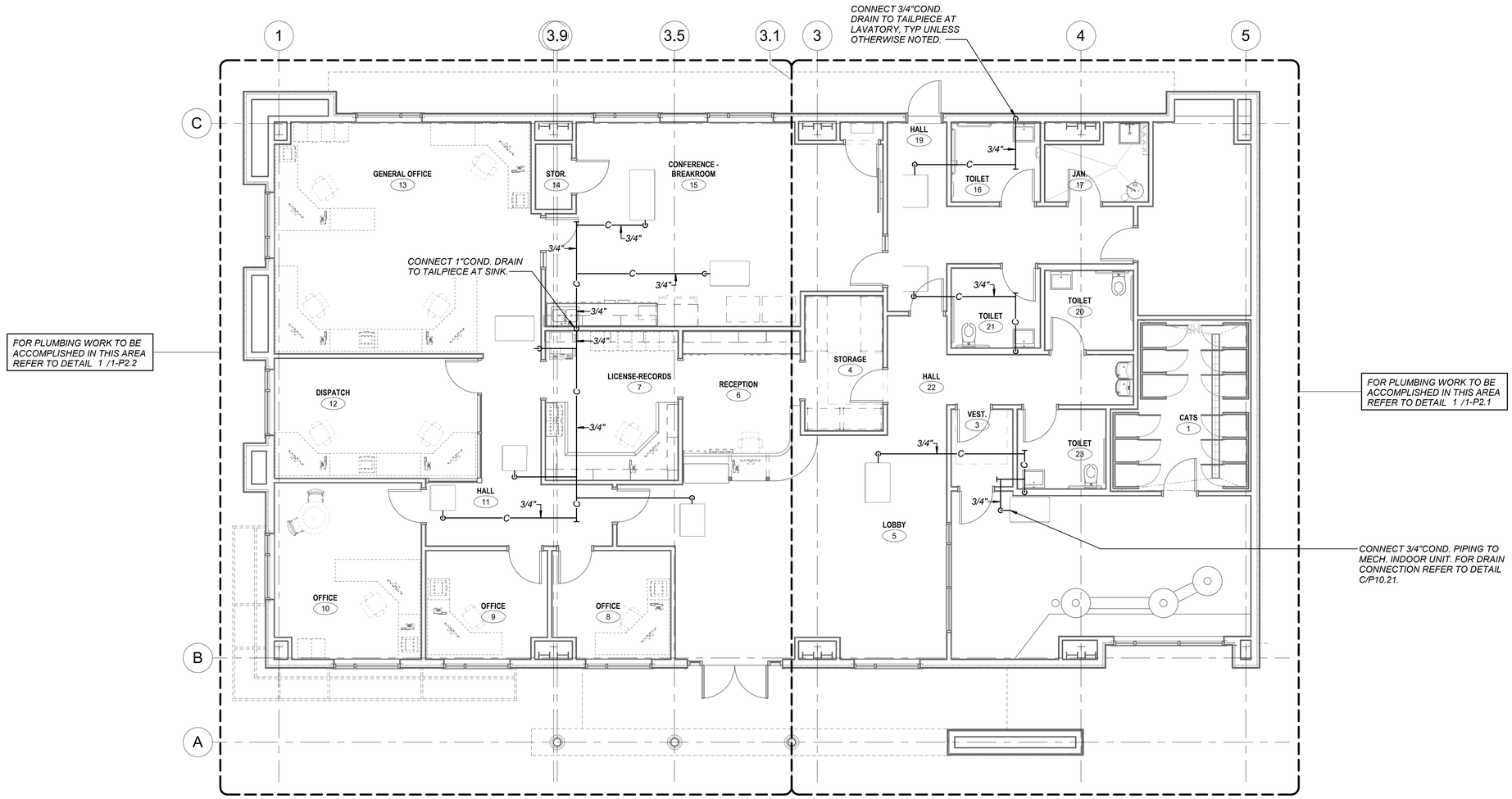

1 OVERALL PLUMBING PLAN
3/16" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. CANTELMI No. M23588 REN. 9-30-21 MECHANICAL STATE OF CALIFORNIA

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Project

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Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-P2.0

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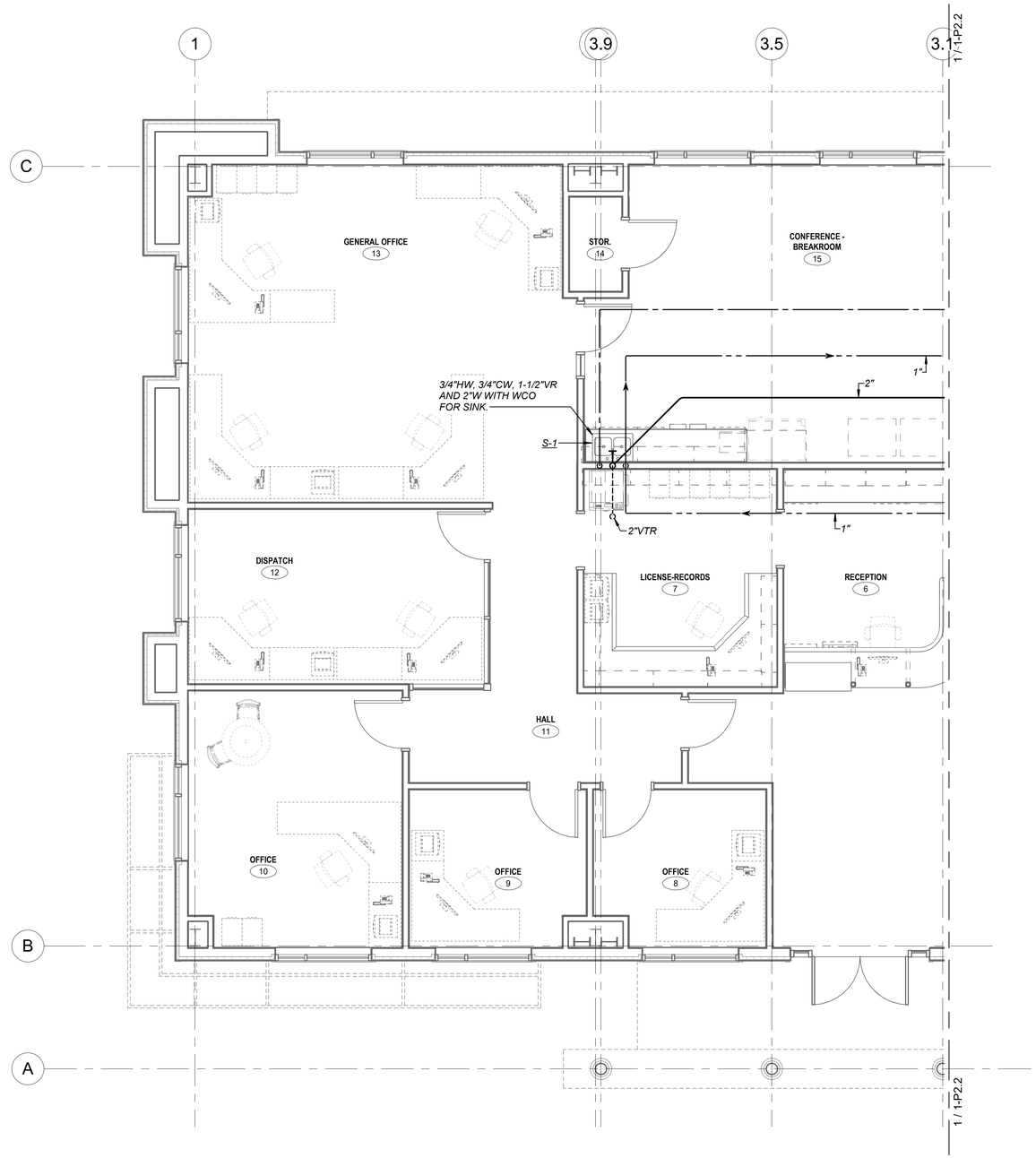

1 ENLARGED PLUMBING PLAN
1/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
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REN. 9-30-21
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Project

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ENLARGED PLUMBING PLAN

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2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

1-P2.1

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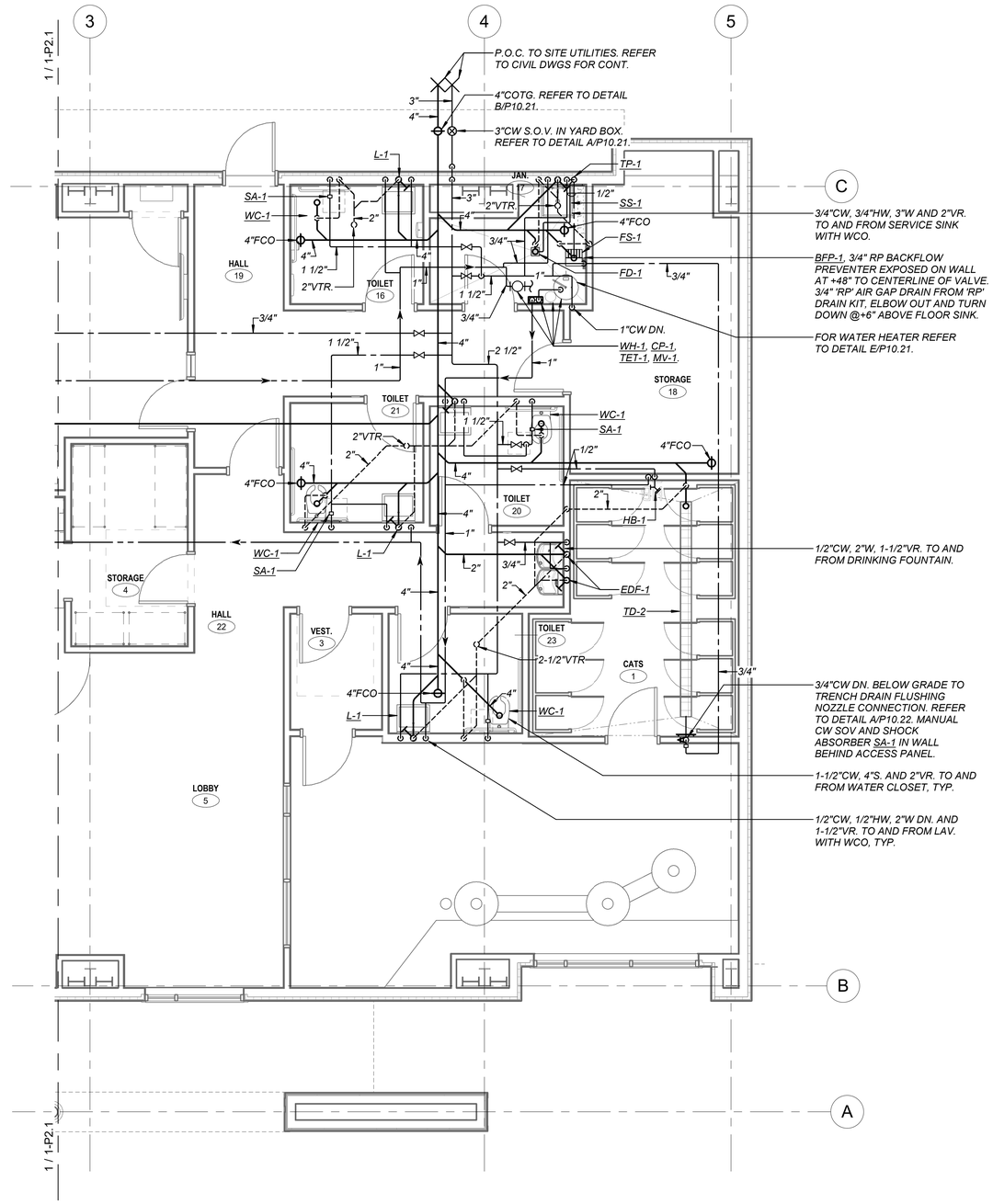

1 ENLARGED PLUMBING PLAN
1/4" = 1'-0"

Legend

ARCHITECT:
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Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTRAM
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Sheet No:

1-P2.2

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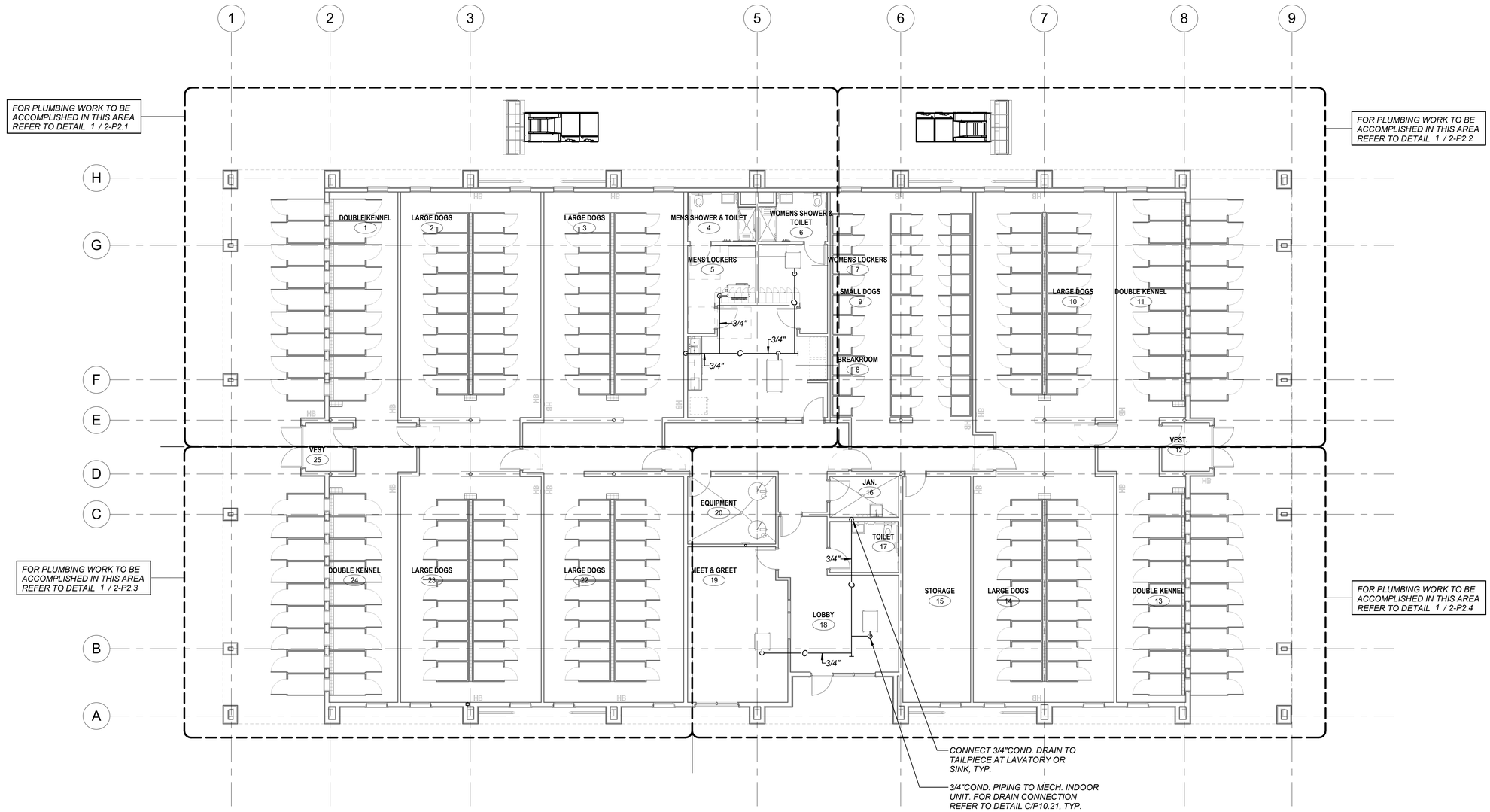

1 OVERALL PLUMBING PLAN
1/8" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
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REN. 9-30-21
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OVERALL PLUMBING PLAN

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2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

2-P2.0

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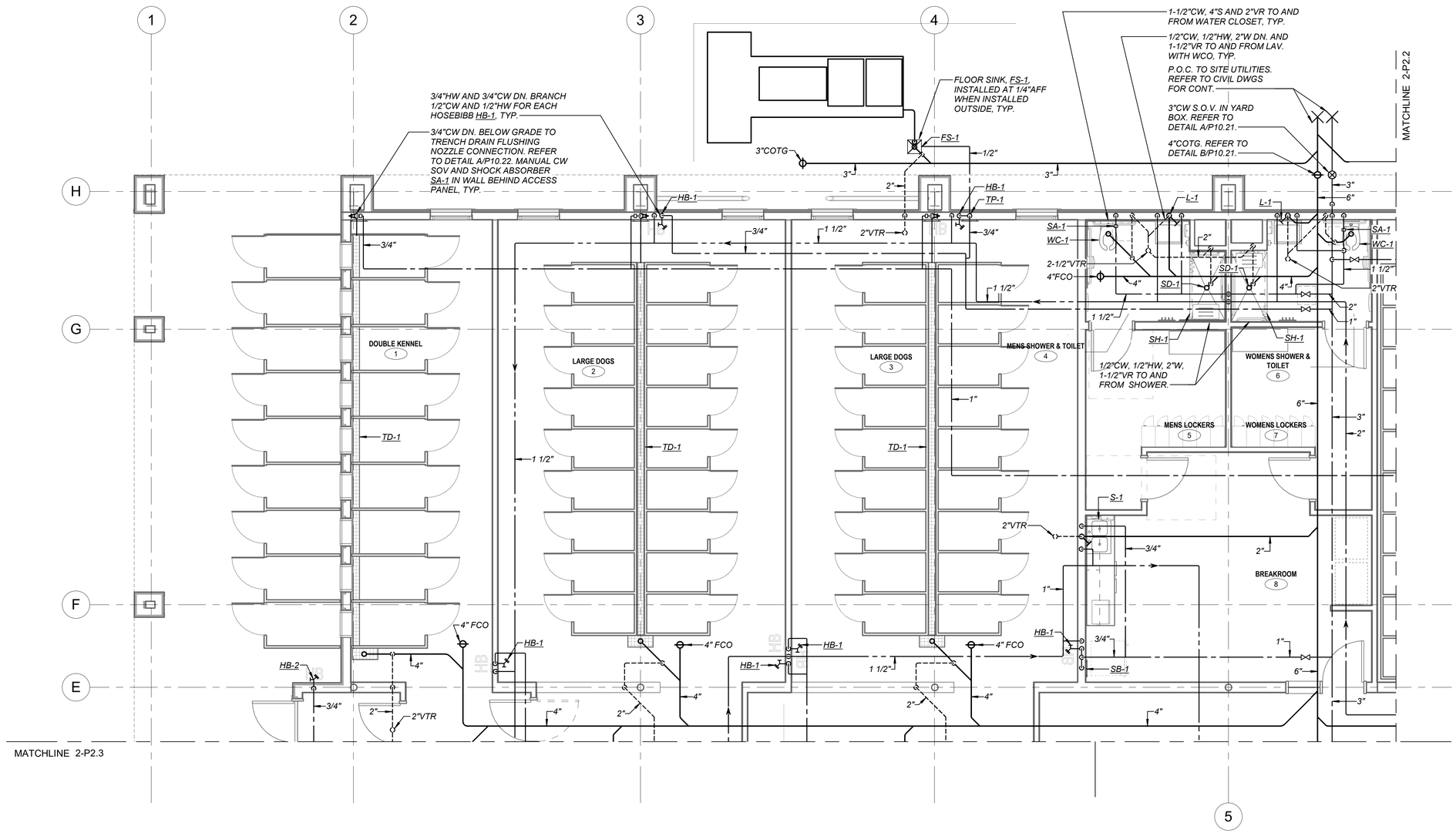

1 ENLARGED PLUMBING PLANS
1/4" = 1'-0"

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2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

2-P2.1

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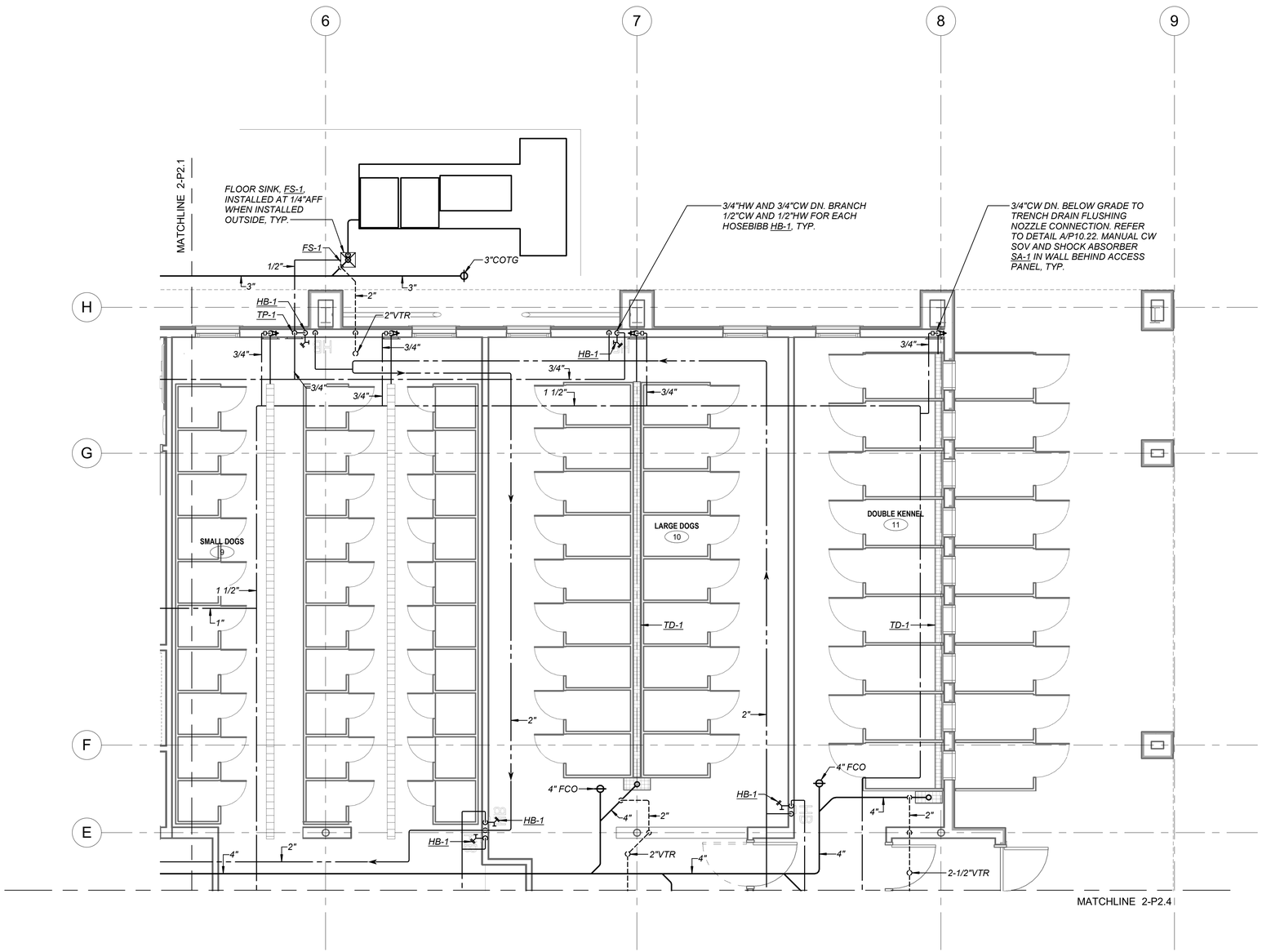

1 ENLARGED PLUMBING PLANS
1/4" = 1'-0"

Legend

ARCHITECT:
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Project

Sheet Content:

Building Name:
Building No.:

ENLARGED PLUMBING PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

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Sheet No:

2-P2.2

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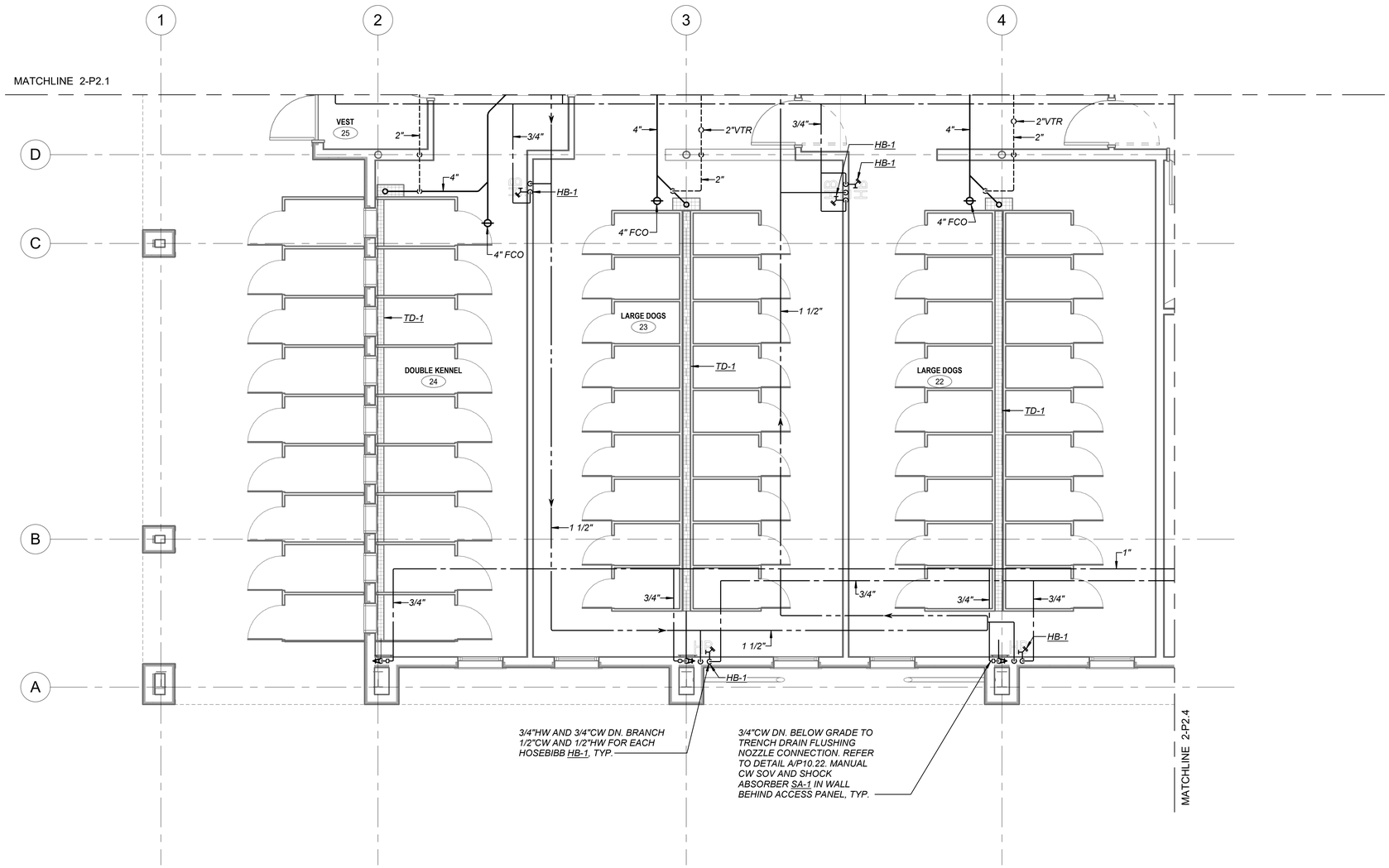

1 ENLARGED PLUMBING PLANS
1/4" = 1'-0"

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Fresno, Cailifornia 93721

Sheet No:
2-P2.3

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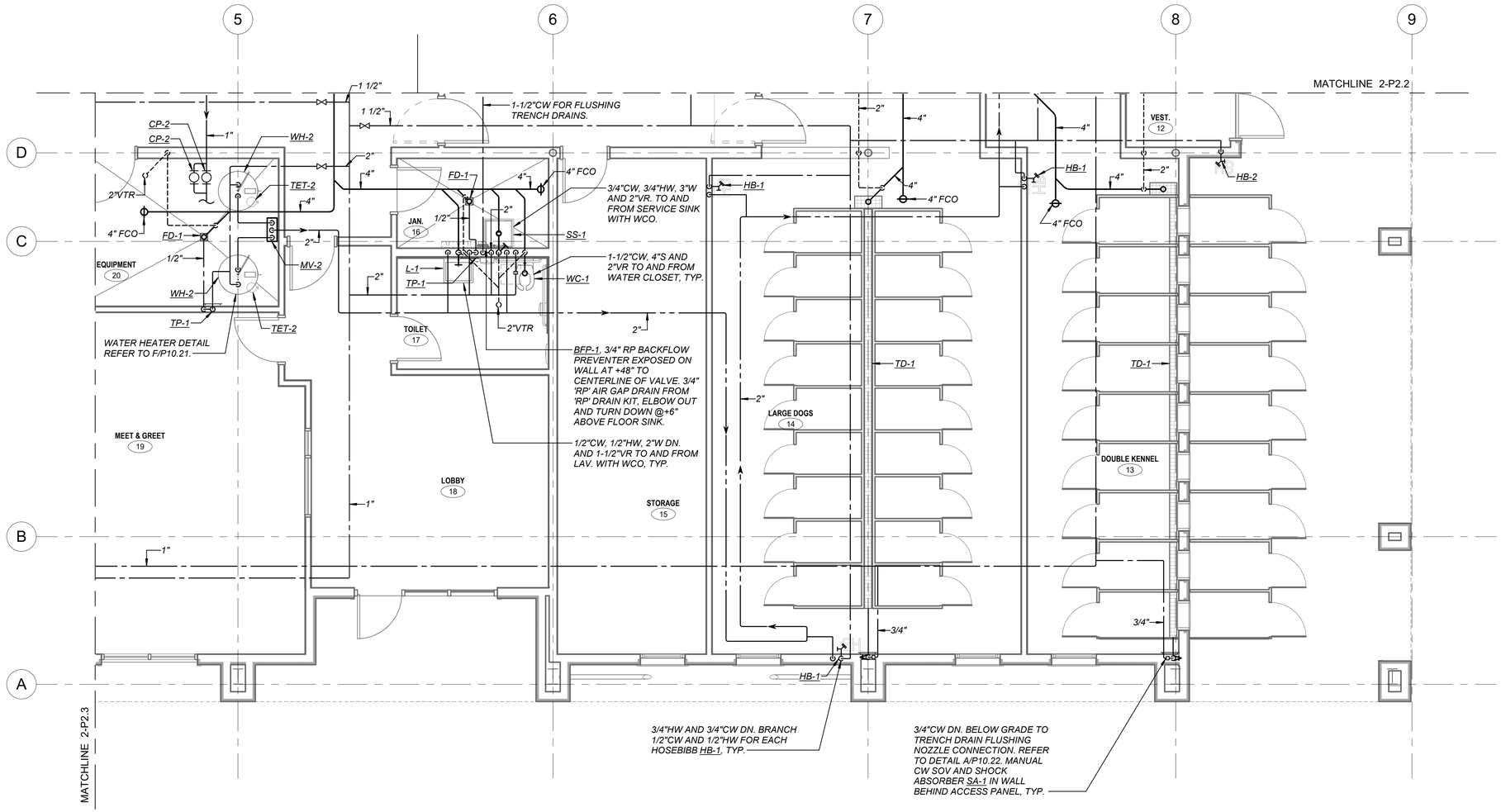

1 ENLARGED PLUMBING PLANS
1/4" = 1'-0"

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2-P2.4

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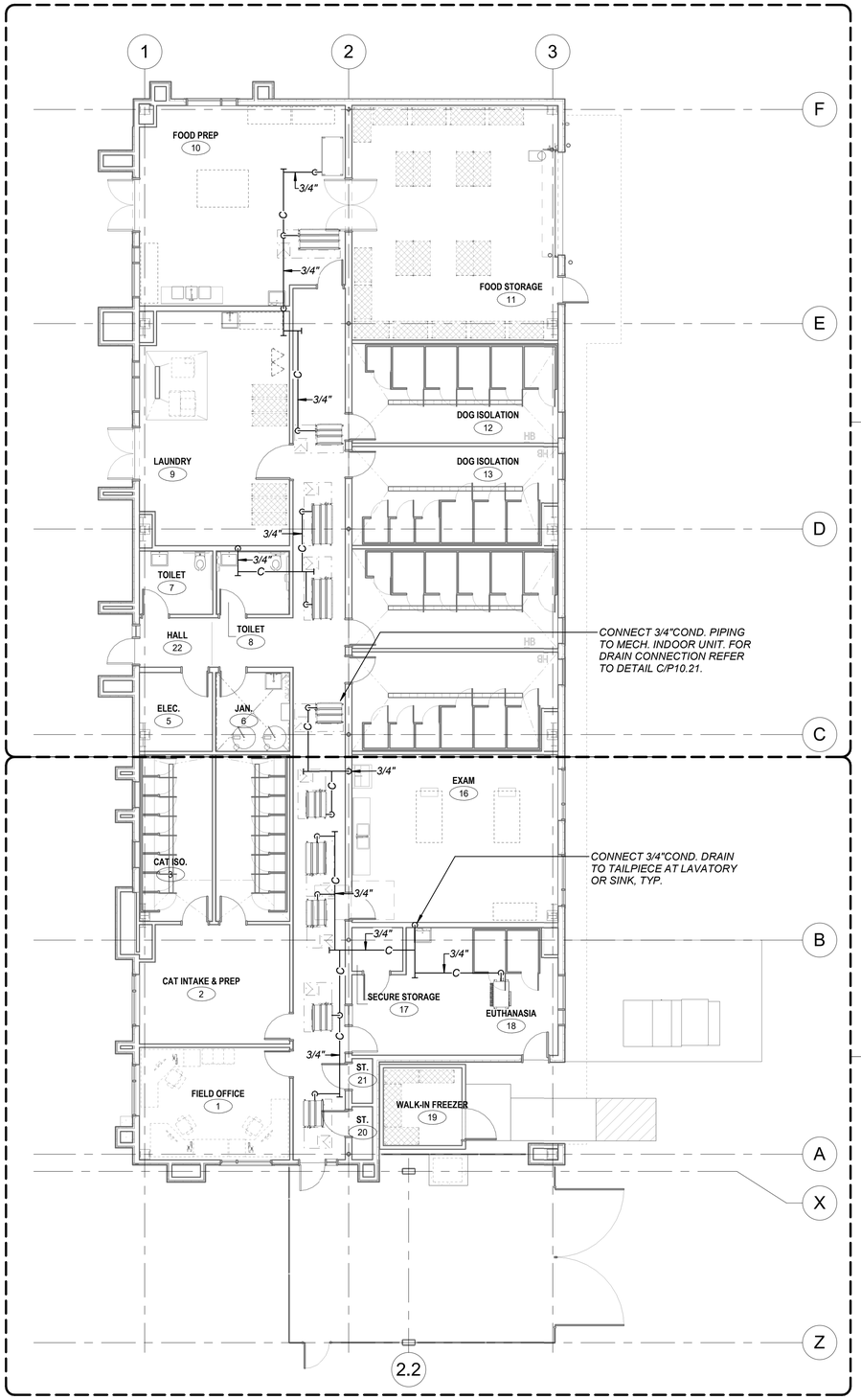

FOR PLUMBING WORK TO BE ACCOMPLISHED IN THIS AREA REFER TO DETAIL 1 / 3-P2.1

FOR PLUMBING WORK TO BE ACCOMPLISHED IN THIS AREA REFER TO DETAIL 1 / 3-P2.2

1 OVERALL PLUMBING PLAN
1/8" = 1'-0"

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Legend

Keynotes

Key Plan

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

OVERALL PLUMBING PLAN

Project No: T80310 **Date:** 3/14/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

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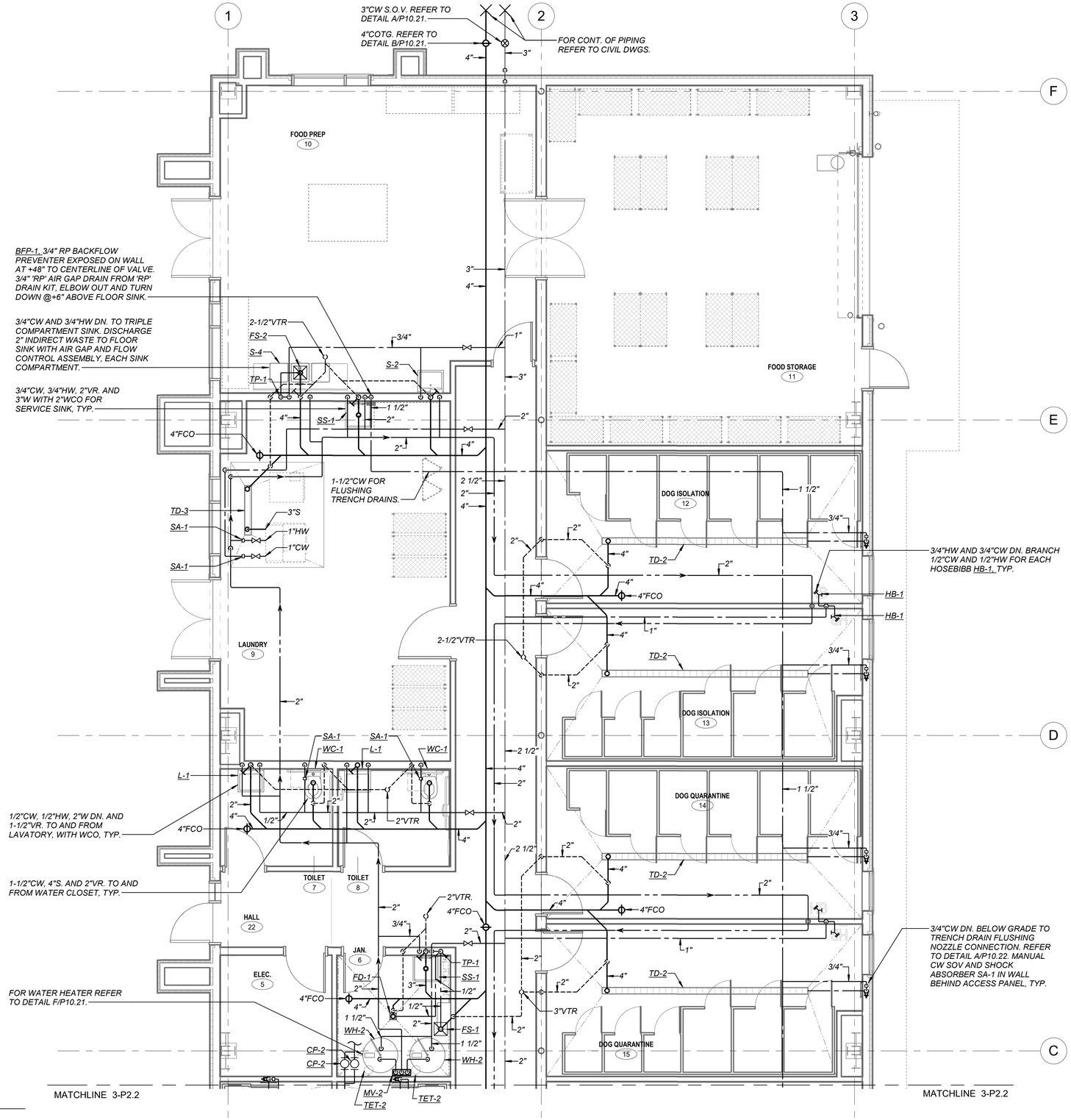

1 ENLARGED PLUMBING PLAN
1/4" = 1'-0"

Legend

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

ENLARGED PLUMBING PLAN

Project No: T80310 **Date:** 3/14/2020

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

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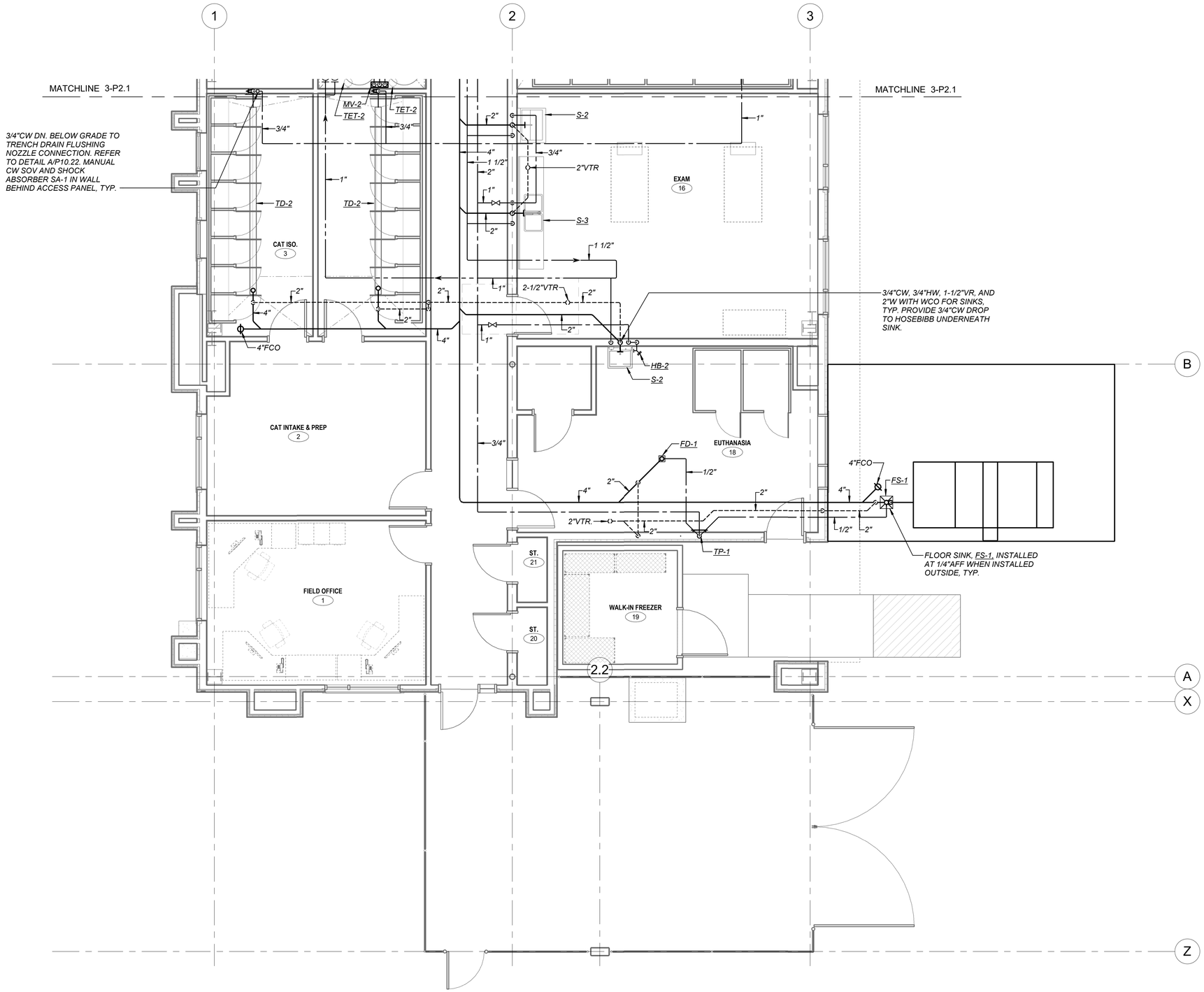

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

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Building No.: 3

ENLARGED PLUMBING PLAN

Project No: T80310 **Date:** 3/14/2020

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Sheet No:

3-P2.2

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PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
EDF-1	ELECTRIC DRINKING FOUNTAIN	2"	1-1/2"	1/2"	-	ELKAY "HI-LO" #EZSTL8SC, (OR HALSEY-TAYLOR EQUAL) CBC ACCESS COMPLIANT, WALL-MOUNT DUAL HEIGHT FOUNTAINS WITH STAINLESS STEEL CABINET AND PUSH-BAR OPERATION-EASY TOUCH CONTROLS ON FRONT RIGHT AND LEFT SIDES. PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL A/P5.0. ELECTRICAL REQUIRED: 4 FLA, 120V/1Ø.
FS-1	FLOOR SINK	-	-	-	-	JAY R. SMITH #3140-12, (OR MIFAB OR ZURN EQUAL) 12"x12"x6"DEEP WITH ANCHOR FLANGE, DOME BOTTOM STRAINER & NICKEL BRONZE RIM WITH HALF GRATE. SEE DWGS. FOR OUTLET SIZE. INSTALL FLUSH WITH FINISH FLOOR. PROVIDE TRAP PRIMER CONNECTION WHERE APPLICABLE.
FS-2	FLOOR SINK	4"	2"	-	-	JAY R. SMITH #3200-12, (OR MIFAB OR ZURN EQUAL) 16-1/2"x 16-1/2"x 12" DEEP WITH ANCHOR FLANGE, DOME BOTTOM STRAINER & NICKEL BRONZE RIM WITH HALF GRATE. INSTALL FLUSH WITH FINISH FLOOR.
SA-1	SHOCK ABSORBER	-	-	1"	-	JAY R. SMITH #5010, (OR ZURN EQUAL) STAINLESS STEEL CONSTRUCTION, P.D.I. SYMBOL "B" FOR UP TO 32 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
SB-1	SUPPLY BOX	-	-	1/2"	-	SPECIALTY PRODUCTS #OB-509, METAL RECESSED REFRIGERATOR WATER SUPPLY BOX WITH WHITE FINISH, INTEGRAL SHUT-OFF VALVE AND MINI-WATER HAMMER ARRESTER.
HB-1	HOSE BIBB	-	-	1/2"	1/2"	ZURN #Z1348-BFP CHROME EXPOSED NON-FREEZE ANTI-SIPHON DUAL HOT/COLD WALL FAUCET WITH AUTOMATIC DRAINING HOSE CONNECTION BACKFLOW PREVENTER.
HB-2	HOSE BIBB	-	-	3/4"	-	ZURN Z1341 ROUGH BRONZE WALL HOSE VALVE, ANTI-SIPHON FAUCET WITH Z1399-VB EXTERNAL VACUUM BREAKER , AND OPTIONAL LOOSE TEE KEY HANDLE.
FD-1	FLOOR DRAIN	2"	1-1/2"	1/2"	-	JAY R. SMITH #2005-P050-HP (OR MIFAB OR ZURN EQUAL) DUCO CAST IRON BODY WITH 5" SQUARE NICKEL BRONZE STRAINER AND TRAP PRIMER CONNECTION.
TP-1	TRAP PRIMER	-	-	1/2"	-	PRECISION PLUMBING PRODUCTS MODEL #P-1 (OR MIFAB EQUAL) VALVE W/ DISTRIBUTION UNITS AS REQUIRED FOR UP TO 4 DRAINS PER DISTRIBUTION UNIT.
BP-1	BACKFLOW PREVENTER	-	-	-	-	WILKINS #975XL2U-AG (OR FEBCO EQUAL) REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY W/ BALL VALVES, UNION CONNECTIONS AND WITH #AG AIR GAP DRAIN. SEE PLAN FOR SIZE, PIPE A 1" DRAIN LINE FROM AIR GAP TO NEAREST RECEPTACLE.
TD-1	TRENCH DRAIN FRAME AND GRATE	4"	2"	-	-	TRENCH DRAIN: ZURN #Z886-P6-FG 6"WIDE HIGH DENSITY POLYETHYLENE SLOPED TRENCH DRAIN WITH GALVANIZED STEEL FABRICATED SLOTTED GRADE WITH ZURN# P886-E1-79 END CAP WITH FLUSHING NOZZLE. TRENCH DRAIN CATCH BASIN: ZURN# Z887-12"x20"-Z-U4-Y-CATCH BASIN WITH PG-P6 PERFORATED GALVANIZED HEEL PROOF, LIGHT WEIGHT GRADE WITH SEDIMENT BUCKET AND 4"BOTTOM OUTLET.
TD-2	TRENCH DRAIN FRAME AND GRATE	4"	2"	-	-	TRENCH DRAIN: ZURN #Z886-P6-FG 6"WIDE HIGH DENSITY POLYETHYLENE SLOPED TRENCH DRAIN WITH GALVANIZED STEEL FABRICATED SLOTTED GRADE WITH ZURN# P886-E1-79 END CAP WITH FLUSHING NOZZLE. TRENCH DRAIN CATCH BASIN: ZURN# Z887-6"x20"-Z-U4-Y-CATCH BASIN WITH PG-P6 PERFORATED GALVANIZED HEEL PROOF, LIGHT WEIGHT GRADE WITH SEDIMENT BUCKET AND 4"BOTTOM OUTLET.
TD-3	TRENCH DRAIN FRAME AND GRATE (WASHING MACHINE)	4"	2"	-	-	ZURN (OR EQUAL) #Z895-91-U6-K-CUSTOM FABRICATED WITH TYPE 316 S.S., 12" WIDE STAINLESS STEEL TRENCH DRAIN WITH PRE-ENGINEERED CHANNELS, MINIMUM CHANNEL DEPTH OF 17.25". SOLID STAINLESS STEEL REMOVABLE TOP GRATE WITH 6" NO-HUB BOTTOM OUTLET, TRENCH DRAIN SHALL BE CUSTOM WITH (2) REMOVABLE VERTICAL PERFORATED LINT STRAINERS THROUGH THE FULL CROSS SECTIONAL AREA OF THE TRENCH DRAIN. THE VERTICAL PERFORATED REMOVABLE STRAINERS SHALL BE LOCATED NEAR THE DRAIN OPENING PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS. SUBMIT SHOP DRAWING. PROVIDE WAX TAPE COATING AWWA 217 COMPLIANT, ON ENTIRE BOTTOM SIDE OF TRENCH DRAIN. PROVIDE REMOVABLE SECTION OF TRENCH DRAIN COVER TO ACCESS AND CLEAN LINT SCREEN.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
SS-1	SERVICE SINK	3"	2"	1/2"	1/2"	AMERICAN STANDARD "AKRON" #7695.008, 24"x20-1/2" ENAMELED CAST IRON WITH RIM GUARD, DRILLED BACK 2 HOLES ON 8" CENTERS, #7798.030 CAST IRON P-TRAP TO WALL AND STRAINER FOR 3" IRON PIPE. ZURN #Z841L1 (OR CHICAGO OR T&S BRASS EQUAL) POLISHED CHROME FAUCET WITH VACUUM BREAKER AND STOPS. PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL A/P5.0.
SH-1	SHOWER FITTINGS	-	-	1/2"	1/2"	BRADLEY #559-2005 THERMOSTATIC MIXING SHOWER VALVE. ADA COMPLIANT, ASSE 1016 COMPLIANT WITH CHECKSTOPS AND LEVER HANDLE. SPEAKMAN #VS-1001-ADA-PC POLISHED CHROME HAND SHOWER, 60" METAL HOSE WITH VACUUM BREAKER, 24" COMBINATION SLIDE/GRAB BAR.
SD-1	SHOWER DRAIN	2"	1-1/2"	-	-	ZURN #ZS880-40 STAINLESS STEEL LINEAR SHOWER DRAIN, VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, SLOTTED HEEL-PROOF GRATE. INSTALL ZURN #Z1023 TRAP PRIMER CONNECTION ADAPTOR, 2" PIPE WITH 1/2" TRAP PRIMER CONNECTION.
WH-1	WATER HEATER	-	-	3/4	3/4"	BRADFORD WHITE #LE240S3-3 (OR A.O.SMITH EQUAL) 20"Ø x48"HIGH, 40 GALLON STORAGE CAPACITY, WITH TWO 2500W ELEMENTS, 13 GPH RECOVERY RATE AT 80 DEG. F. TEMP. RISE, & P&T RELIEF VALVE. OPERATING WEIGHT = 450 LBS. PROVIDE ON-SITE FACTORY STARTUP AND TRAINING.
CP-1	CIRCULATING PUMP	-	-	-	-	B&G/XYLEM LEAD-FREE WET ROTOR CIRCULATOR NBF-25, (OR GRUNDFOS OR TACO EQUAL) BRONZE IN-LINE CENTRIFUGAL PUMP WITH B&G/XYLEM FLANGED CONNECTIONS FLANGE SIZE TO MATCH THE HWR PIPE SIZE, PROVIDE WITH STRAP ON AQUASTAT AND 7 DAY WEEK TIMECLOCK 5 GPM @ 16' TDH. ELEC: 120V, SINGLE PHASE, 270 WATTS, 2.30 FLA WEIGHT: 13.1 LBS
MV-1	THERMOSTATIC MIXING VALVE	-	-	-	-	BRADLEY, #S59-3045-R-H-B-P-0 HIGH LOW THERMOSTATIC MIXING VALVE, 19 GPM @ 10 PSI PD, ROUGH BRASS, HIGH RANGE THERMOSTAT, SET AT 120 DEGREES F., WALL MOUNTING BRACKET, PIPED ASSEMBLY WITH INLET AND OUTLET SHUTOFF.
TET-1	THERMAL EXPANSION TANK	-	-	3/4"	-	AMTROL "THERM-X-TROL" #ST-5-C, 2.1 GALLON ASME RATED WITH IN- LINE CONNECTIONS AND WITH FDA APPROVED BLADDER FOR POTABLE WATER USE.
WH-2	WATER HEATER	-	-	1-1/2"	1-1/2"	BRADFORD WHITE #CEHD120(A)183"CF (OR A.O.SMITH EQUAL) 30-1/4"Ø x65"HIGH, 119 GALLON STORAGE CAPACITY, WITH THREE 18kW ELEMENTS, 93 GPH RECOVERY RATE AT 80 DEG. F. TEMP. RISE, & P&T RELIEF VALVE. OPERATING WEIGHT = 1500 LBS. PROVIDE ON-SITE FACTORY STARTUP AND TRAINING.
MV-2	THERMOSTATIC MIXING VALVE	-	-	-	-	BRADLEY, #S59-3130 R-H-B-P-0 HIGH LOW THERMOSTATIC MIXING VALVE, 38.1 GPM @ 5 PSI PD, ROUGH BRASS, HIGH RANGE THERMOSTAT, SET AT 120 DEGREES F., WALL MOUNTING BRACKET, PIPED ASSEMBLY WITH INLET AND OUTLET SHUTOFF.
CP-2	CIRCULATING PUMP	-	-	-	-	B&G/XYLEM LEAD-FREE WET ROTOR CIRCULATOR NBF-36, (OR GRUNDFOS OR TACO EQUAL) BRONZE IN-LINE CENTRIFUGAL PUMP WITH B&G/XYLEM FLANGED CONNECTIONS FLANGE SIZE TO MATCH THE HWR PIPE SIZE, PROVIDE WITH STRAP ON AQUASTAT AND 7 DAY WEEK TIMECLOCK 5 GPM @ 17' TDH. REFER TO DETAIL A/P22. ELEC: 120V, SINGLE PHASE, 270 WATTS, 2.30 FLA WEIGHT: 13.1 LBS
TET-2	THERMAL EXPANSION TANK	-	-	3/4"	-	AMTROL "THERM-X-TROL" #ST-12-C, 6.4 GALLON ASME RATED WITH IN- LINE CONNECTIONS AND WITH FDA APPROVED BLADDER FOR POTABLE WATER USE.

NOTE:
ALL PLUMBING FIXTURES SHALL MEET 2019 CAL GREEN MANDATORY MEASURES. MAXIMUM FLOW RATE AT 20 PERCENT REDUCTION PER TABLE 5.303.2.3.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
WC-1	WATER CLOSET	4"	2"	1-1/2"	-	AMERICAN STANDARD WALL MOUNTED AFWALL 1.6/1.1GPF DUAL FLUSH EVERCLEAN TOILET CBC ACCESS AND CAL GREEN COMPLIANT WITH SELECTRONIC EXPOSED BATTERY FLUSH VALVE SYSTEM, OLSONITE #95CC/SS OPEN FRONT HEAVY DUTY SEAT WITH STAINLESS STEEL HINGES AND FASTENERS. PROVIDE MIFAB FIXTURE SUPPORT SERIES (OR JR SMITH OR ZURN EQUAL).REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
L-1	LAVATORY	2"	1-1/2"	1/2"	-	AMERICAN STANDARD "DECORUM" WALL-HUNG SINK #9024.000EC, (OR KOHLER OR ZURN EQUAL) CBC ACCESS COMPLIANT, 20"x18-1/4", VIT. CHINA WITH NO FAUCET HOLES, McGUIRE #155A GRID DRAIN. AMERICAN STANDARD "SERIN" WALL-MOUNT SENSOR OPERATED FAUCET #T064.345 (OR T&S BRASS OR ZURN EQUAL), 0.5 GPM, LAMINAR SPRAY, PWRX 10 YEAR BATTERY POWER, #605XTMV1070 THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP. TRUEBRO "LAV SHIELD" #20181 PROTECTIVE LAVATORY ENCLOSURE. FIELD CUT STANDARD LAV SHIELD TO MATCH LAVATORY CONTOUR. FACTORY PRE-CUT LAV SHIELD ACCEPTABLE WHERE AVAILABLE. JAY R. SMITH #723 CONCEALED ARMS, AND A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL C/10.1. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
S-1	SINK	2"	1-1/2"	1/2"	1/2"	ELKAY #LRAD292265, 6-1/2" DEEP (OR JUST EQUAL) ADA COMPLIANT, DOUBLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 11-1/2"x16"x6-1/2" DEEP EACH BOWL SIZE WITH TWO #J-35GS BASKET STRAINERS, AND CHICAGO #2300-8E34ABCP (OR T&S BRASS OR ZURN EQUAL) SINGLE LEVER MIXING FAUCET, 1.5 GPM AERATOR, 10" SWING SPOUT. ZURN #ZW3870XLT-4P, 4-PORT THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP.
S-2	SINK	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "DECORUM" WALL-HUNG SINK #9024.000EC, (OR KOHLER OR ZURN EQUAL) CBC ACCESS COMPLIANT, 20"x18-1/4", VIT. CHINA WITH NO FAUCET HOLES, McGUIRE #155A GRID DRAIN. AMERICAN STANDARD "SERIN" WALL-MOUNT SENSOR OPERATED FAUCET #T064.345 (OR T&S BRASS OR ZURN EQUAL), 0.5 GPM, LAMINAR SPRAY, PWRX 10 YEAR BATTERY POWER, #605XTMV1070 THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP. TRUEBRO "LAV SHIELD" #20181 PROTECTIVE LAVATORY ENCLOSURE. FIELD CUT STANDARD LAV SHIELD TO MATCH LAVATORY CONTOUR. FACTORY PRE-CUT LAV SHIELD ACCEPTABLE WHERE AVAILABLE. JAY R. SMITH #723 CONCEALED ARMS, AND A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL C/10.11. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
S-3	SINK	2"	1-1/2"	1/2"	1/2"	ELKAY #LRAD292265, 6-1/2" DEEP (OR JUST EQUAL) ADA COMPLIANT, DOUBLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 11-1/2"x16"x6-1/2" DEEP EACH BOWL SIZE WITH TWO #J-35GS BASKET STRAINERS, AND CHICAGO #1100-GN8AE35-317AB WITH 1.5 GPM LAMINAR FLOW CONTROL SWIVEL GOOSENECK FAUCET & 4" WRIST BLADE HANDLES. ZURN #ZW3870XLT-4P, 4-PORT THERMOSTATIC MIXING VALVE SET FOR 110°F OUTLET TEMP.
S-4	TRIPLE COMPARTMENT SINK	2"	1-1/2"	1/2"	1/2"	JUST #NSFB-345-24RL-12/12 15 GAUGE TRIPLE COMPARTMENT SINK WITH RIGHT AND LEFT DRAINBOARD AND 12" HIGH BACKSPLASH. FAUCET HOLES TO BE CENTERED OVER SINK PARTITION. FOR SINK BULLET FEET ANCHORAGE REFER TO DETAIL B/10.21. TWO (2) JUST #J-35LAC-2 TWIST HANDLE DRAINS WITH REMOVABLE STRAINER, (1) CHICAGO 540-LDL12E35XKABCP BACKSPLASH MOUNT SINK FAUCET, (1) 510-GVB613L12XKCAB BACKSPLASH MOUNT PRE-RINSE FAUCET, BOTH FAUCETS TO HAVE CHICAGO HCJK-AB-CP SUPPLY ARMS WITH INTEGRAL STOP ARMS.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. CONTRERAS M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

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Legend

Keynotes

Key Plan

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E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

PLUMBING SCHEDULE

Project No: Date:

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO 1856

Sheet No:

P10.11

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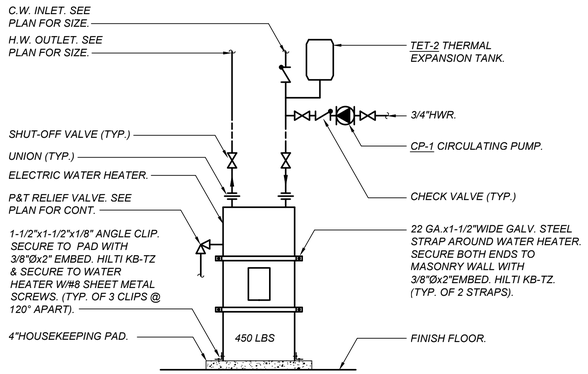


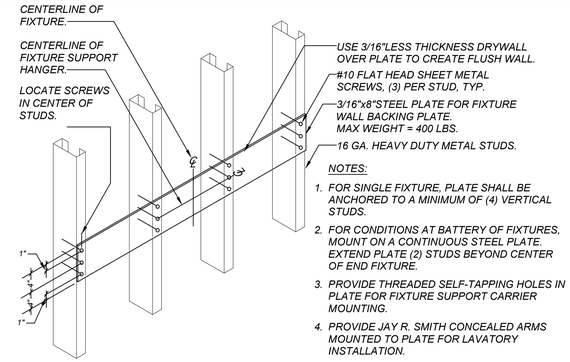
WATER HEATER DETAIL - WH-1

SCALE: NONE

CONC WALL

P071

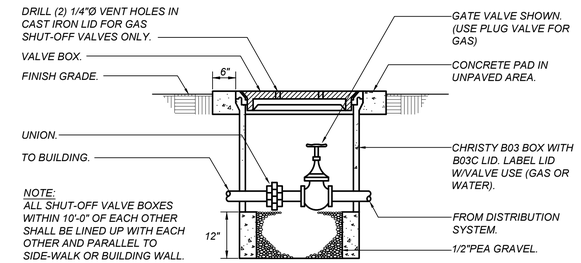
E / P10.21



FIXTURE SUPPORT BACKING PLATE DETAIL

SCALE: NONE

D / P10.21

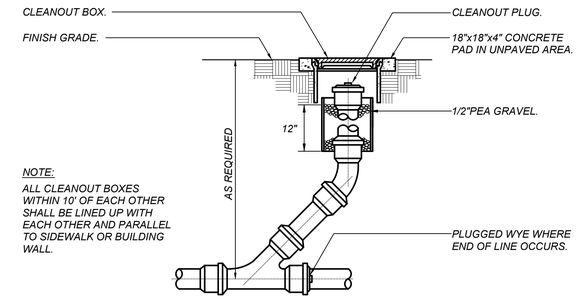


SHUT-OFF VALVE IN BOX DETAIL

SCALE: NONE

P159

A / P10.21

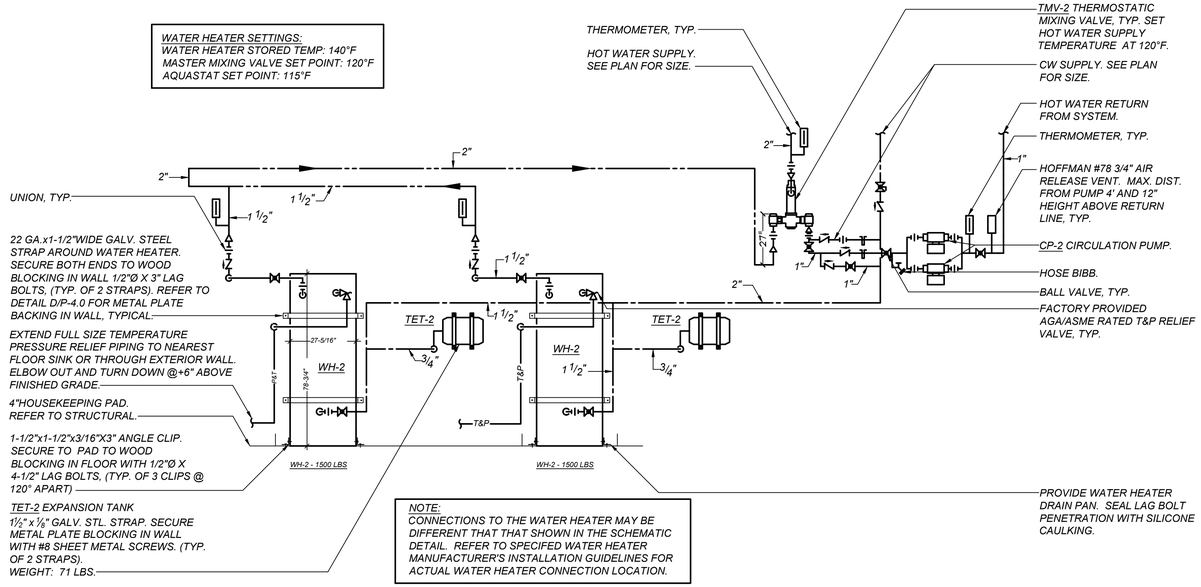


CLEANOUT TO GRADE DETAIL

SCALE: NONE

P114

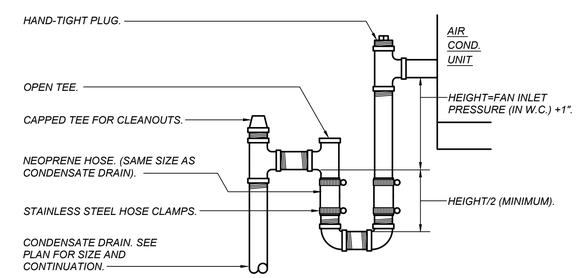
B / P10.21



WATER HEATER DETAIL

SCALE: NONE

F / P10.21



CONDENSATE DRAIN CONNECTION DETAIL

SCALE: NONE

P020

C / P10.21

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. CONTERAT M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

7084 N. Maple Ave., Suite 101 Fresno, CA 93720
(559) 431-0101 20040 FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
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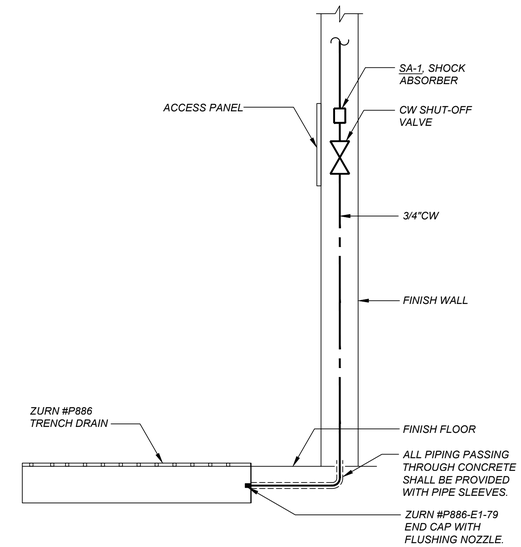
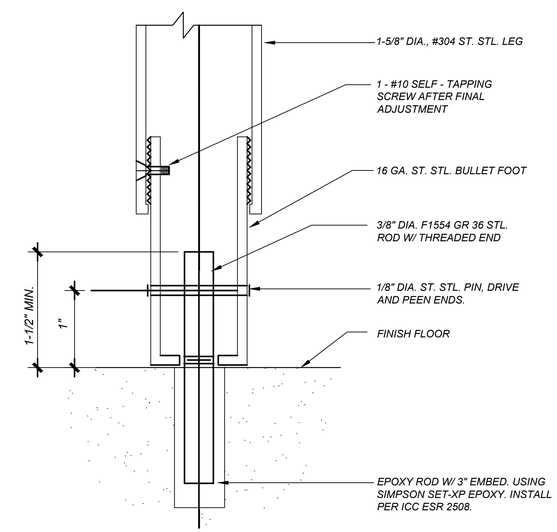


FLUSHING TRENCH DRAIN DETAIL

A / P10.22

SCALE: NONE



BULLET FOOT

B / P10.22

SCALE: NONE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTERAY
M23588
REN. 9-30-2021
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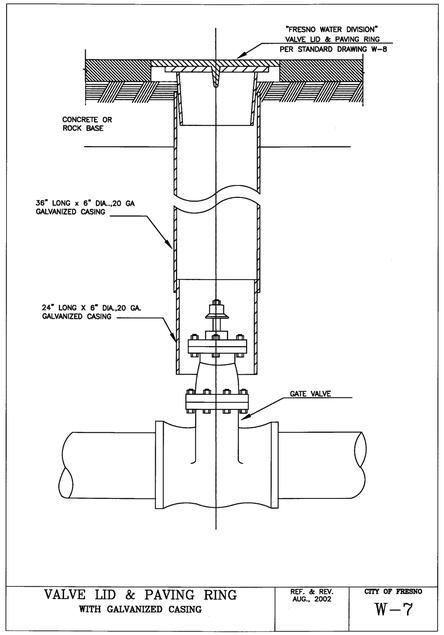
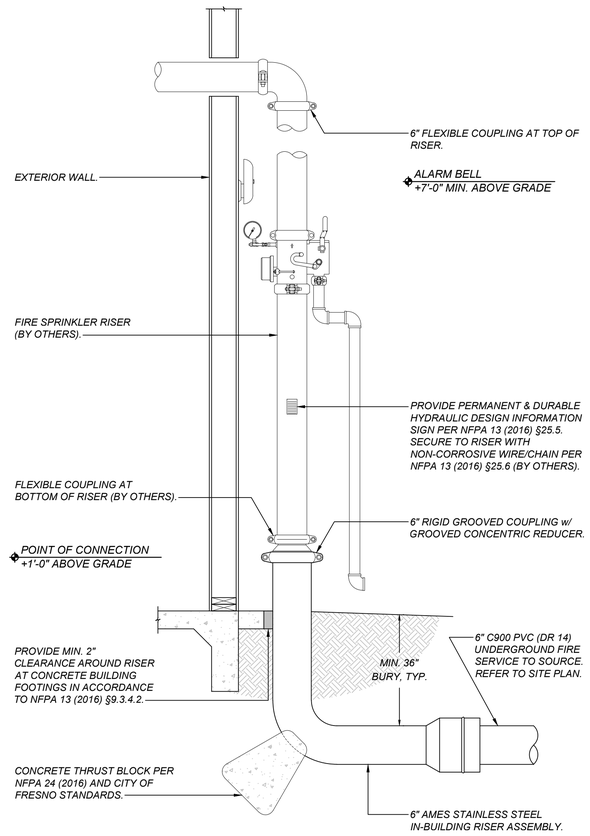


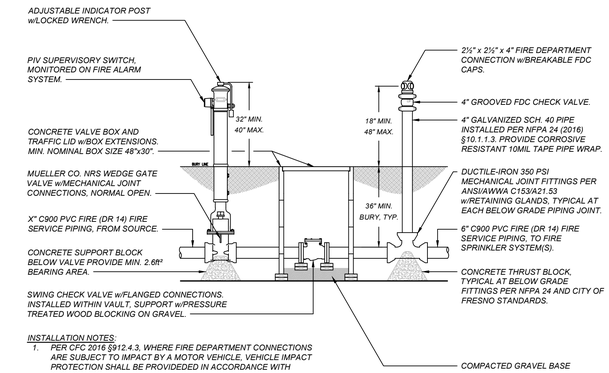
STANDARD DETAIL - FRESNO

C 10.23

SCALE: NONE

FSSXXX





INSTALLATION NOTES:

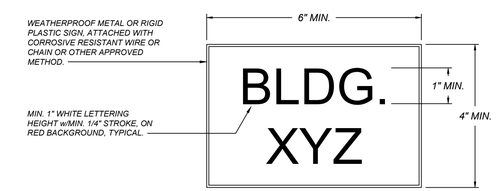
1. PER CFC 2016 §912.4.3. WHERE FIRE DEPARTMENT CONNECTIONS ARE SUBJECT TO IMPACT BY A MOTOR VEHICLE, VEHICLE IMPACT PROTECTION SHALL BE PROVIDEDED IN ACCORDANCE WITH SECTION 312.
2. PER NFPA 13 (2016) TABLE A.6.9 & CFC §912.5 SIGNAGE OF APPARATUS SHALL HAVE IDENTIFICATION SIGNAGE, REFER TO DETAIL B/P10.23.

POST INDICATOR - CHECK VALVE - FDC ASSEMBLY

A P10.23

SCALE: NONE

FSS101



INSTALLATION NOTES:

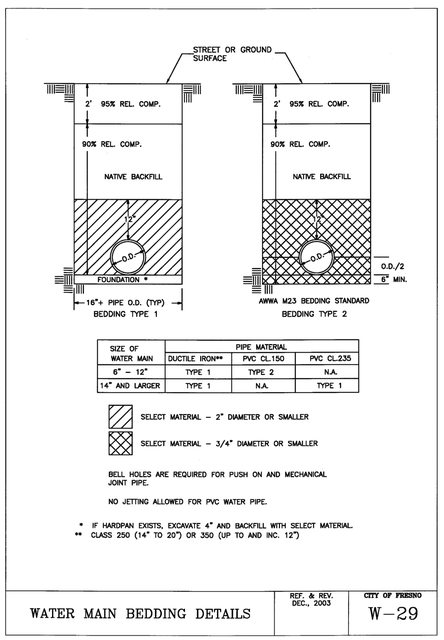
A. PER NFPA 13 (2016) TABLE A.6.9 SPRINKLER SYSTEM SIGNAGE SUMMARY, SYSTEM CONTROL VALVES AND FIRE DEPARTMENT CONNECTIONS SHALL HAVE IDENTIFICATION SIGNAGE. IDENTIFICATION SIGNS SHALL BE INSTALLED AT A MINIMUM 18" ABOVE FINISH GRADE MEASURED FROM THE BOTTOM EDGE OF THE SIGN.
B. PER NFPA 13 (2016) §8.16.1.1.8 IDENTIFICATION SIGNS ON CONTROL VALVES SHALL BE PROVIDED AT EACH VALVE TO INDICATE ITS FUNCTION AND WHAT IT CONTROLS.
C. PER NFPA 13 (2016) §8.17.2.4.7 (CFC 2016 §912.5) EACH FIRE DEPARTMENT CONNECTION TO SPRINKLER SYSTEMS SHALL BE DESIGNATED BY A SIGN HAVING RAISED OR ENGRAVED LETTERS AT LEAST 1-INCH IN HEIGHT ON PLATE OR FITTING READING SERVICE DESIGN.
D. WHEN SYSTEM DEMANDS ARE GREATER THAN 150PSI, THE SIGN SHALL INDICATE THE PRESSURE REQUIRED AT THE INLETS TO DELIVER THE GREATEST SYSTEM DEMAND.
E. WHERE LOCAL JURISDICTION REQUIRES ADDRESS OR BUILDING IDENTIFICATION ON POST INDICATOR VALVES AND/OR FIRE DEPARTMENT CONNECTIONS, IDENTIFICATION MARKING CAN BE PAINTED DIRECTLY ON THE APPARATUS IN LIEU OF SIGNAGE. VERIFY REQUIREMENT WITH CITY OF FRESNO FIRE DEPARTMENT REGARDING MINIMUM LETTERING HEIGHT AND PAINT COLOR REQUIREMENTS.

SITE APPARATUS SIGNAGE

B P10.23

SCALE: NONE

FSS101



SIZE OF WATER MAIN	PIPE MATERIAL		
	DUCTILE IRON**	PVC CL.150	PVC CL.235
6" – 12"	TYPE 1	TYPE 2	N.A.
14" AND LARGER	TYPE 1	N.A.	TYPE 1

STANDARD DETAIL - FRESNO

D 10.23

SCALE: NONE

FSSXXX

RISER NOTES:

1. 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.

RISER DETAIL:
6" SYSTEM RISER ON 8" IN-BUILDING RISER (INT)

C 10.23

SCALE: NONE

FSSXXX

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. GRIFFITH
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REN. 9-30-2021
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Legend

Keynotes

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REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
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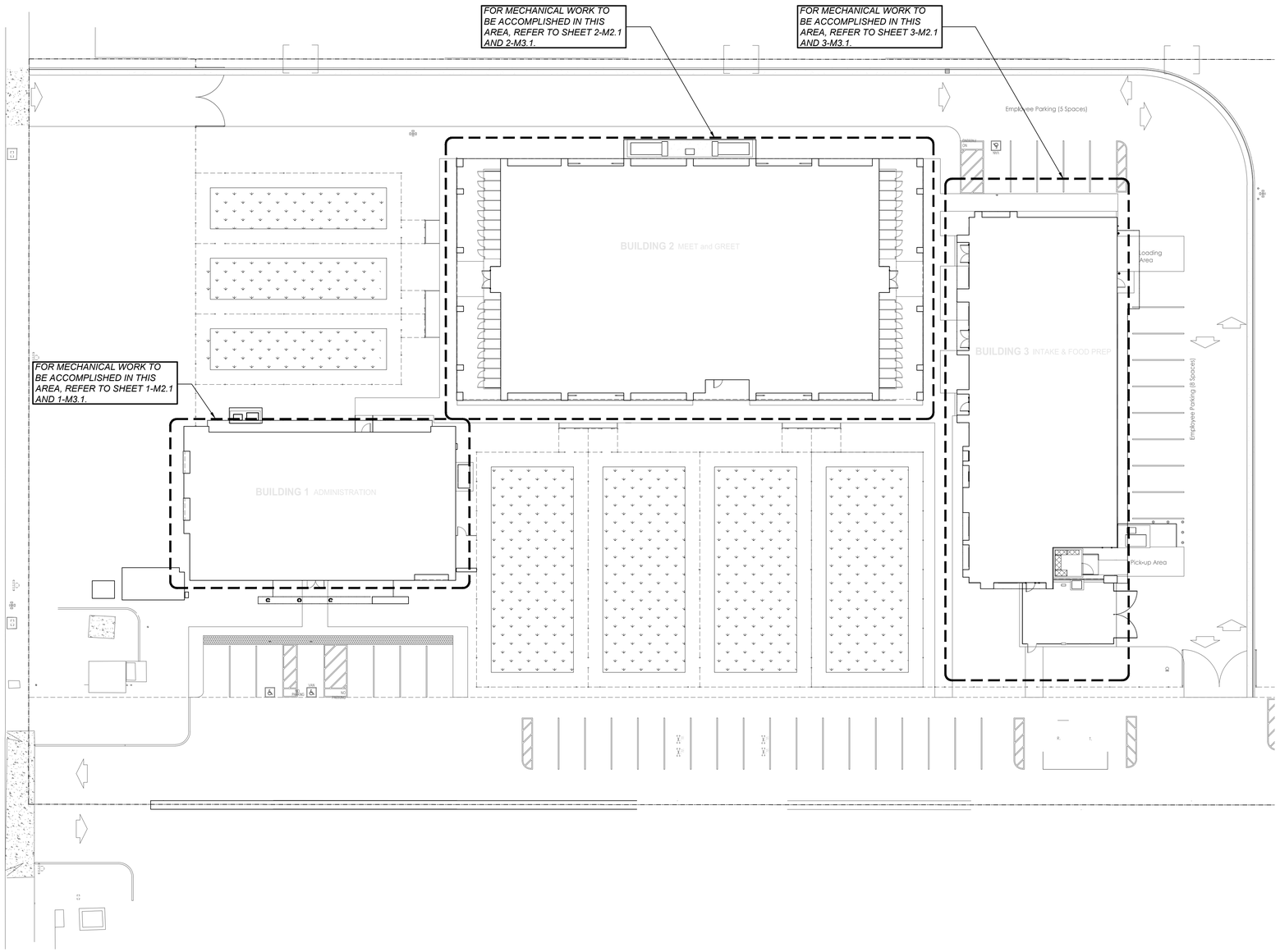

OVERALL MECHANICAL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES:

1. THE INTENT OF THE DRAWING AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, TITLE 24, CCR, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.

2. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE HVAC 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 DUCT AND 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 THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.

3. 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 PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

4. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE THERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

   1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
   3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

   THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

   PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, 1616A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP):

   MP☐MD☐ PP☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

   MP☒MD☒PP☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL MASON WEST OPM #0043-13.

   MP☐MD☐PP☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL A AND CONNECTION LEVEL 1 FOR THE PROJECT AND CONDITIONS.

6. PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING, AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2019 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS.

7. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING & MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN.

8. [SA DUCTWORK FOR VAV SYSTEMS SHALL BE 2" UPSTREAM OF BOXES AND 1" DOWNSTREAM OF BOXES, AND][SA DUCTWORK SHALL BE 1" PRESSURE CLASS, AND] RA & EA DUCTWORK SHALL 1" PRESSURE CLASS UNLESS OTHERWISE NOTED.

9. A DSA CERTIFIED PROJECT INSPECTOR (CLASS 3) EMPLOYED BY THE DISTRICT & APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-338, PART 1, TITLE 24, CCR.

10. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

REGISTERED PROFESSIONAL ENGINEER
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Sheet Content:

Building Name:
Building No.:

OVERALL MECHANICAL SITE PLAN

Project No: **Date:**

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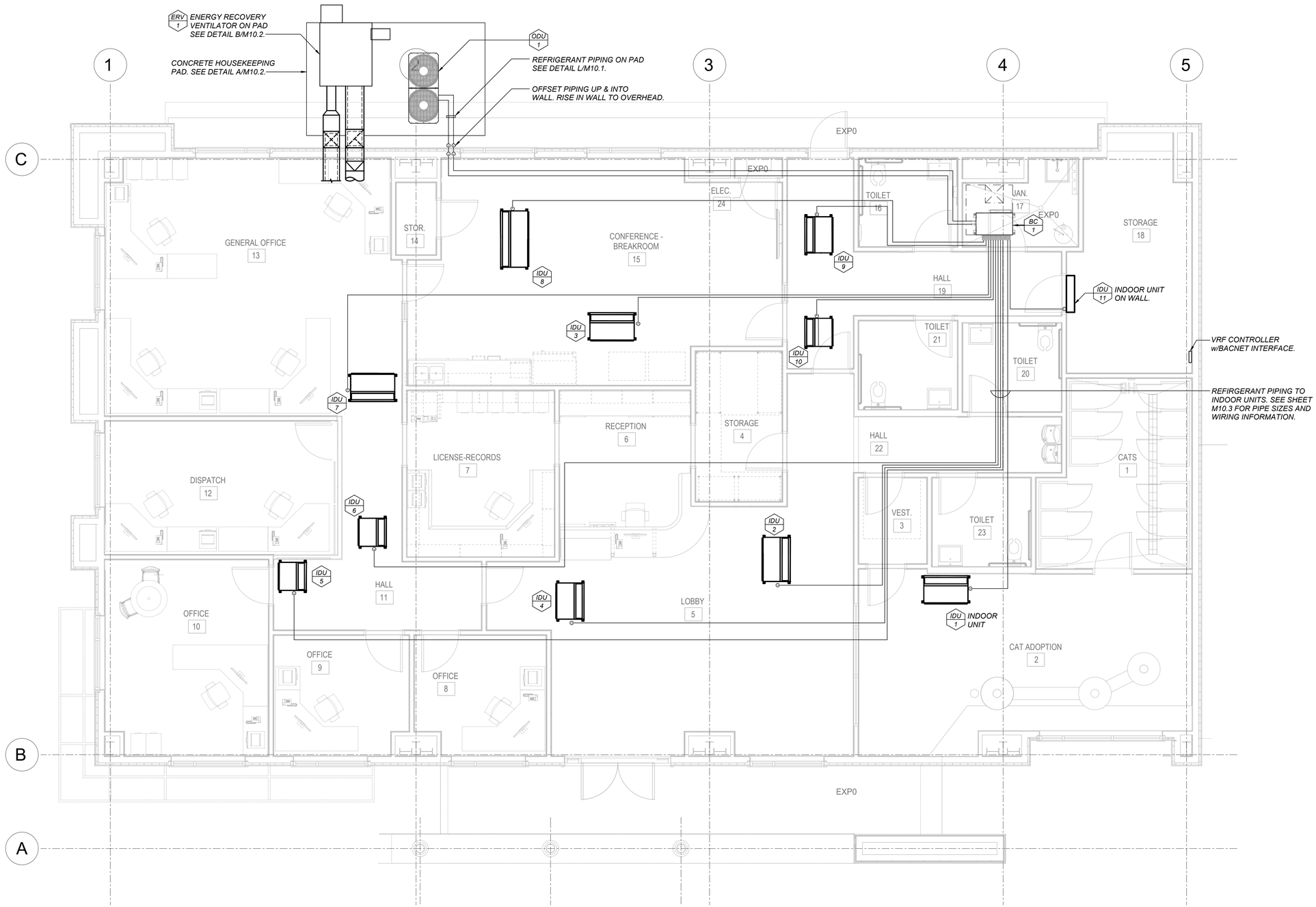

OVERALL HVAC PIPING PLAN - ADMIN.

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

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. CANTRALL M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

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Building Name: ADMIN.
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OVERALL HVAC PIPING PLAN

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THE COUNTY OF FRESNO 1856

Sheet No:

1-M2.1

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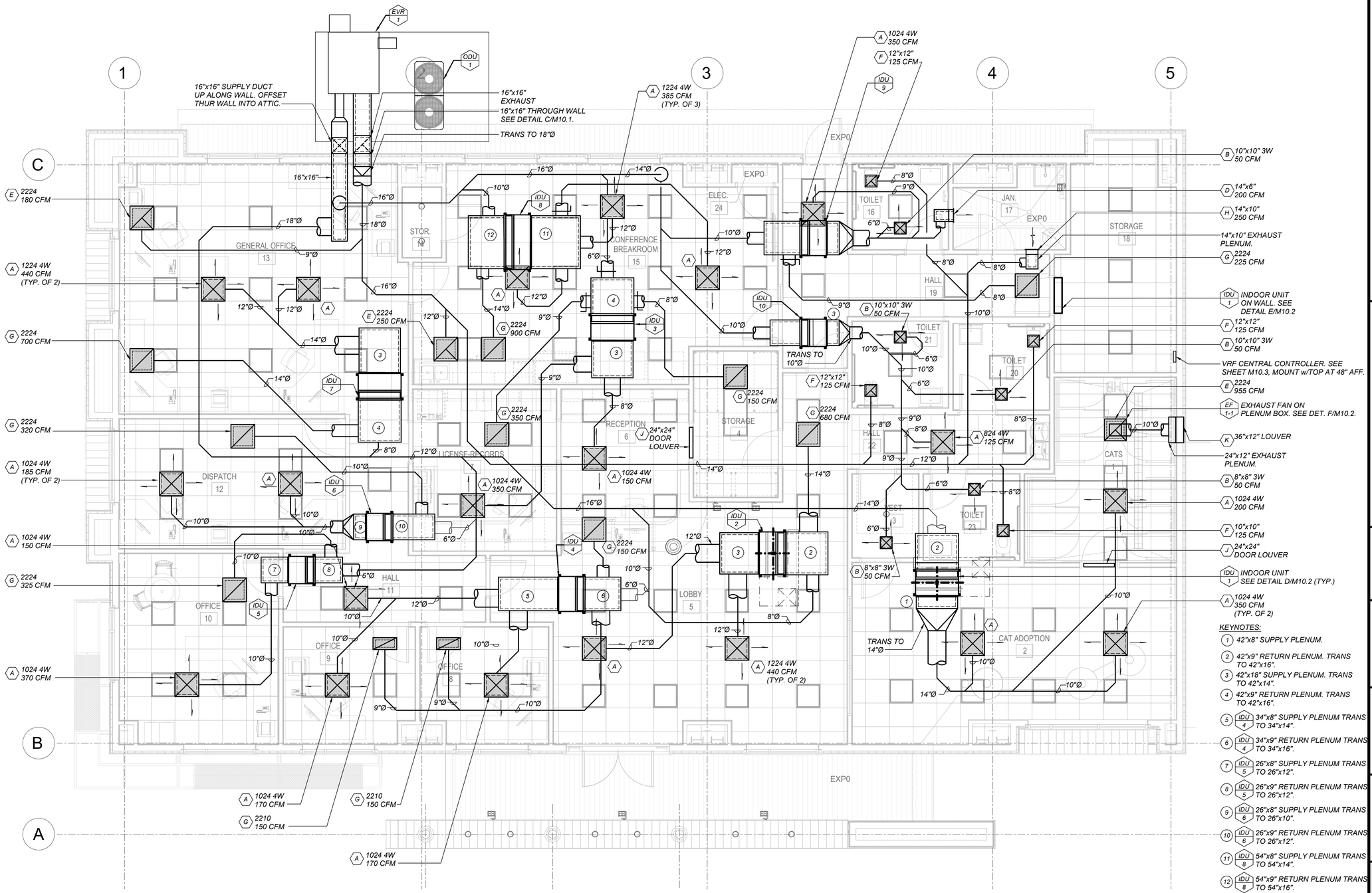

KEYNOTES:

1. 42"x8" SUPPLY PLENUM.
2. 42"x9" RETURN PLENUM. TRANS TO 42"x16".
3. 42"x18" SUPPLY PLENUM. TRANS TO 42"x14".
4. 42"x9" RETURN PLENUM. TRANS TO 42"x16".
5. IDU 4 — 34"x8" SUPPLY PLENUM TRANS TO 34"x14".
6. IDU 4 — 34"x9" RETURN PLENUM TRANS TO 34"x16".
7. IDU 5 — 26"x8" SUPPLY PLENUM TRANS TO 26"x12".
8. IDU 5 — 26"x9" RETURN PLENUM TRANS TO 26"x12".
9. IDU 6 — 26"x8" SUPPLY PLENUM TRANS TO 26"x10".
10. IDU 6 — 26"x9" RETURN PLENUM TRANS TO 26"x12".
11. IDU 8 — 54"x8" SUPPLY PLENUM TRANS TO 54"x14".
12. IDU 8 — 54"x9" RETURN PLENUM TRANS TO 54"x16".

OVERALL HVAC PLAN - ADMIN.

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

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. CARPENTER M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

7084 N. Maple Ave., Suite 101 (559) 431-0101 — 20040 — Fresno, CA 93720 FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
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Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: ADMIN.
Building No.: 1

OVERALL HVAC PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

1-M3.1

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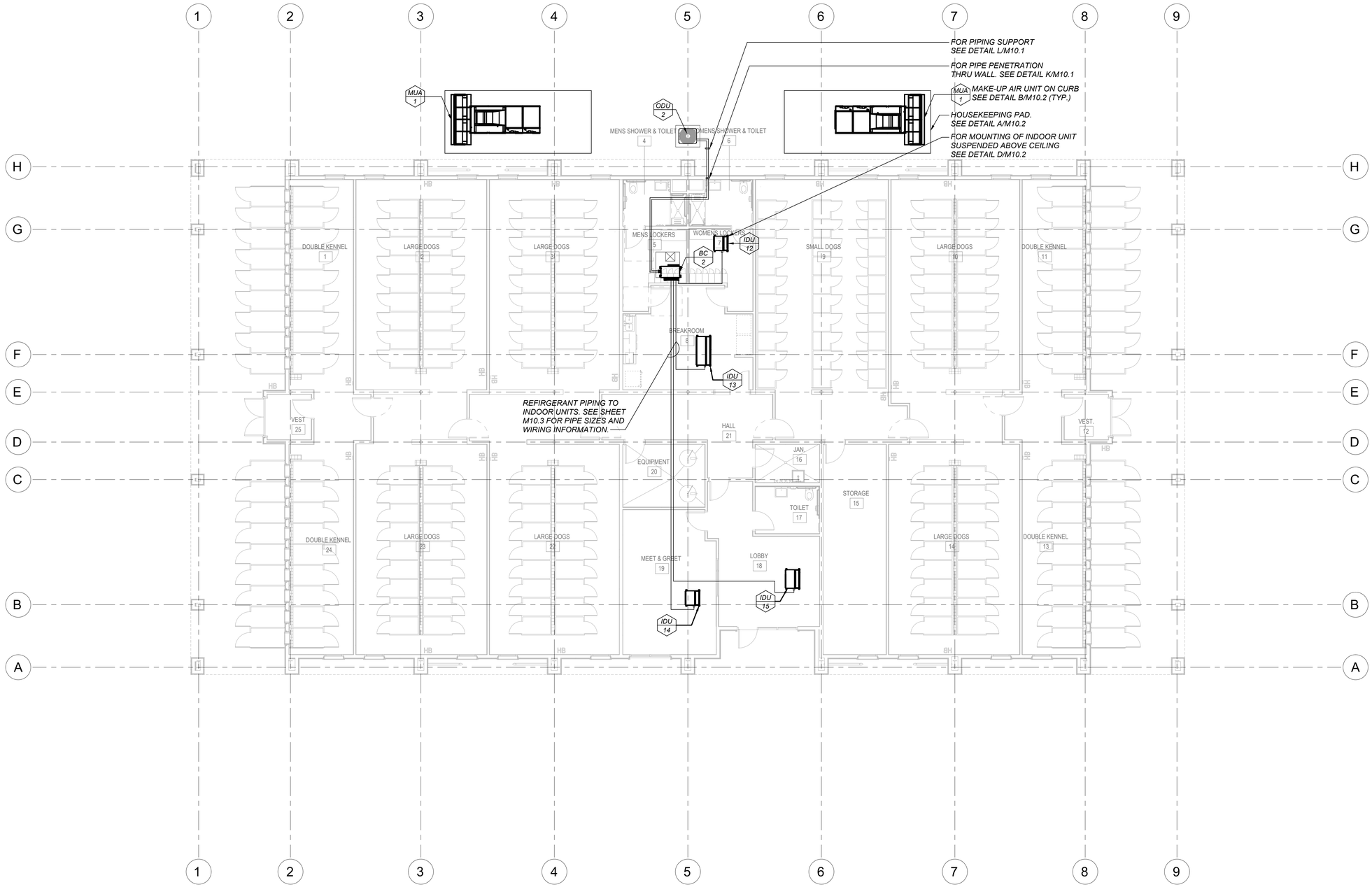

OVERALL HVAC PIPING PLAN - KENNEL, MEET AND GREET

SCALE: 1/8" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTRAMP
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

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Legend

Keynotes

Key Plan

LICENSED ARCHITECT
NOEL ROGER DAVIDSON II
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNEL, MEET AND GREET
Building No.: 2

OVERALL HVAC PIPING PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

2-M2.1

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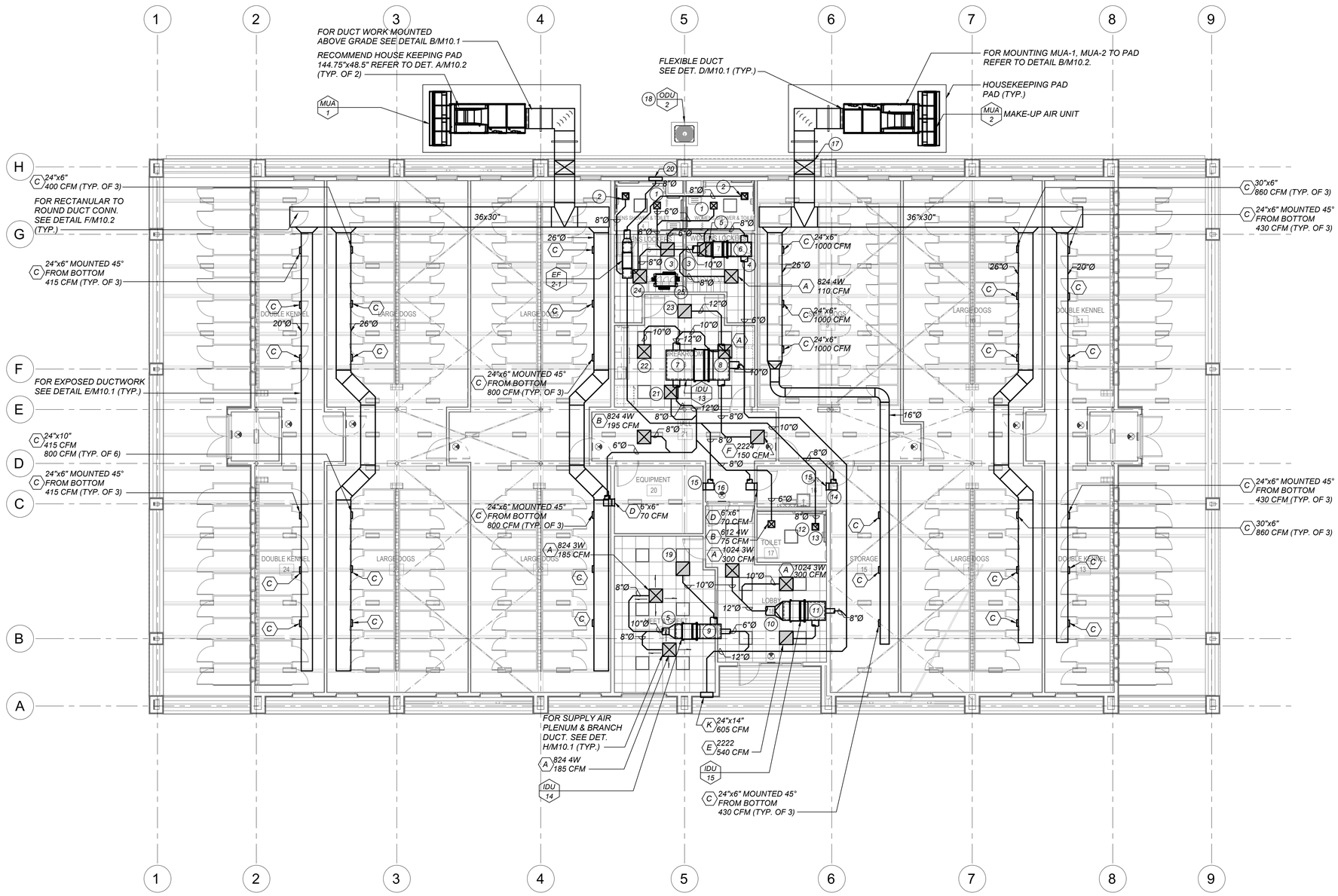

ENLARGED HVAC PLAN - KENNEL, MEET AND GREET

SCALE: 1/8" = 1'-0"

KEYNOTES: (THIS SHEET ONLY)

1. B 624 4W 75 CFM (TYP. OF 2)
2. F 1212 75 CFM (TYP. OF 2)
3. E 2222 80 CFM (TYP. OF 2)
4. IDU 12 INDOOR UNIT
5. 26"x8" SUPPLY PLENUM, TRANS TO 10"Ø.
6. 26"x9" RETURN PLENUM, TRANS TO 26"x10".
7. 54"x8" SUPPLY PLENUM TRANS TO 54"x14".
8. 54"x8" SUPPLY PLENUM TRANS TO 54"x14".
9. 26"x9" RETURN PLENUM TRANS TO 26"x12".
10. 34"x8" SUPPLY PLENUM TRANS TO 12"Ø.
11. 34"x9" RETURN PLENUM TRANS TO 34"x14".
12. EF 2-5 EXHAUST FAN
13. F 1212 125 CFM
14. EF 2-4 EXHAUST FAN
15. H 8"x6" 125 CFM
16. EF 2-3 EXHAUST FAN
17. FOR MOUNTING DUCT TO WALL, SEE DETAIL A/M10.1. FOR DUCT THUR WALL PENETRATION AEE DETAIL C/M10.1.
18. CONCRETE HOUSEKEEPING PAD TO EXTEND MIN. 6" BEYOND UNIT IN ALL DIRECTIONS. FOR MOUNTING TO PAD SEE DETAIL C/M10.2.
19. E 2222 340 CFM SEE DETAIL J/M10.1 FOR RETURN MOUNTING
20. K 24"x14" 625 CFM
21. A 824 3W 215 CFM
22. A 824 4W 300 CFM
23. E 2224 575 CFM
24. A 824 4W 110 CFM
25. BC 2

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. GARRETT M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

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Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN. 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNEL, MEET AND GREET
Building No.: 2

ENLARGED HVAC PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
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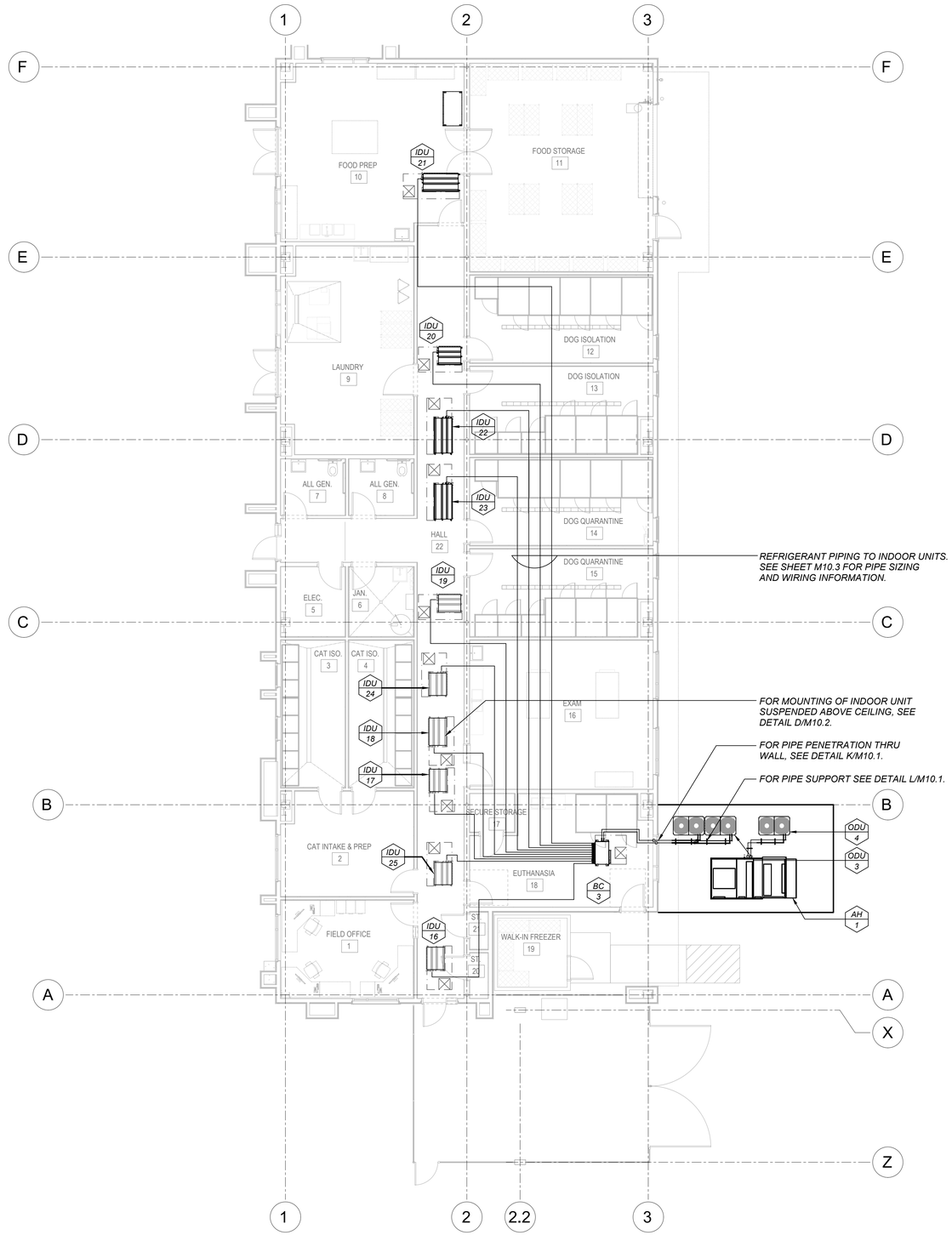

OVERALL HVAC PIPING PLAN - INTAKE & FOOD PREP.

SCALE: 1/8"=1'-0"

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

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REGISTERED PROFESSIONAL ENGINEER MICHAEL D. GATKEAR M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP.
Building No.: 3

OVERALL HVAC PIPING PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

3-M2.1

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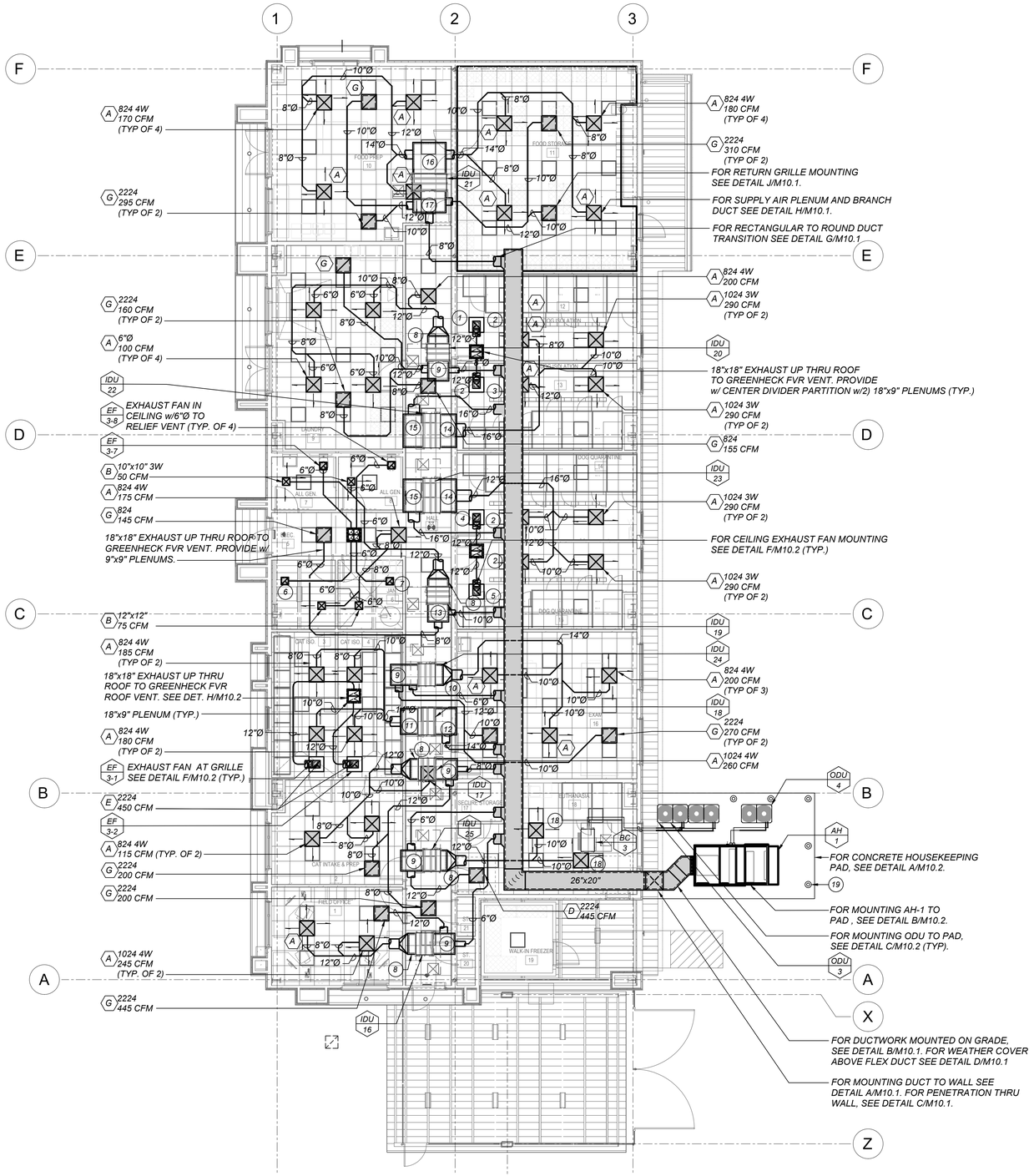

ENLARGED HVAC PLAN - INTAKE & FOOD PREP.

SCALE: 1/8" = 1'-0"

KEYNOTES: (THIS SHEET ONLY)

1. EF 3-3 EXHAUST FAN
2. E 2224 650 CFM
3. EF 3-4 EXHAUST FAN
4. EF 3-5 EXHAUST FAN
5. EF 3-6 EXHAUST FAN
6. EF 3-9 EXHAUST FAN
7. EF 3-10 EXHAUST FAN
8. 38"x8" SUPPLY PLENUM, TRANS TO 12"Ø.
9. 34"x9" RETURN PLENUM, TRANS TO 34"x14".
10. 34"x8" SUPPLY PLENUM, TRANS TO 14"Ø.
11. 42"x8" SUPPLY PLENUM, TRANS TO 42"x16".
12. 42"x9" RETURN PLENUM, TRANS TO 42"x16".
13. 34"x9" RETURN PLENUM, TRANS TO 34"x12".
14. 54"x8" SUPPLY PLENUM, TRANS TO 54"x18".
15. 54"x9" RETURN PLENUM, TRANS TO 54"x18".
16. 54"x8" SUPPLY PLENUM, TRANS TO 54"x16".
17. 54"x9" RETURN PLENUM, TRANS TO 54"x14".
18. A 1024 4W 245 CFM (TYP OF 2)
19. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BOLLARD LOCATION.

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. GONTERMAN M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

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Legend

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ARCHITECT:
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP.
Building No.: 3

ENLARGED HVAC PLAN

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

3-M3.1

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EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF 2-1	EF 3-1	EF 3-2	EF 3-3	EF 3-4	EF 3-5	EF 3-6	EF 3-7	EF 3-8	EF 3-9	EF 3-10
CFM	955	625	450	450	650	650	650	650	125	125	125	125
EXT. S.P. (IN. WC)	0.70	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.38	0.38	0.38	0.38
WATTS	607	134	100	100	187	187	187	187	12	12	12	12
VOLTS/ PHASE	115/ 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
RPM	1129	1387	1314	1314	1441	1441	1441	1441	1041	1041	1041	1041
SONES	8.5	1.3	5.0	5.0	7.0	7.0	7.0	7.0	2.5	2.5	2.5	2.5
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	At GRILLE	ABOVE CEILING	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE	AT GRILLE
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	SP-A1300	CSP-A700VG	SP-A700-VG	SP-A700-VG	SP-A700-VG	SP-A700-VG	SP-A700-VG	SP-A700-VG	SP-A90-130-VG	SP-A90-130-VG	SP-A90-130-VG	SP-A90-130-VG
CONTROL												
LOCATION	CATS 1	MEN'S LOCKERS 5	CAT ISO. 3	CAT ISO. 4	DOG ISO. 12	DOG ISO. 13	DOG QUAR. 14	DOG QUAR 15	ALL GEN. RR 7	ALL GEN. RR 8	ELECTRICAL 5	JANITOR 6
OPER. WT. (LBS)	60	40	40	40	40	40	40	40	12	12	12	12
ACCESSORIES	1	1, 2	1	1	1	1	1	1	1	1	1	1

1. PROVIDE VFD & BACKDRAFT DAMPER
2. ISOLATON KIT

MAKE-UP AIR UNIT SCHEDULE

DESIGNATION	MUA-1	MUA-2
BLOWER		
SUPPLY AIR (CFM)	12,000	12,000
TOTAL SP (IN WC)	3.2	3.2
HP/BRAKE HP	12.56/15	12.56/15
VOLTS/PHASE	460/3	460/3
MCA/MOP	177.1/ 200	177.1/ 200
R.P.M.	1765	1765
ISOLATOR DEFLEC (IN)	2"	2"
EVAPORATIVE		
MEDIA WIDTH	12"	12"
TYPE	CELDEK	CELDEK
EADB/EAWB (F)	103.6/73.7	103.6/73.7
LADB/LAWB (F)	76.9/73.7	76.9/73.7
HEATING		
CAPACITY (kW)	120.0	120.0
TEMP. RISE (˚F)	50.0	50.0
EAT/LAT	31.5/81.5	31.5/81.5
CFM	6000	6000
FILTERS		
QUANTITY/SIZE		
EFFICIENCY (%)	30	30
TYPE	PLEATED	PLEATED
FINAL PD (IN WC)		
MANUFACTURER	GREENHECK	GREENHECK
TYPE	ELECTRIC	ELECTRIC
MODEL NUMBER	MSX-P125-H32	MSX-P125-H32
CONTROL		
LOCATION	KENNEL	KENNEL
OPER. WT. (LBS)	2850	2850
ACCESSORIES		

AIR HANDLER SCHEDULE

DESIGNATION	AH-1
SUPPLY FAN	
SUPPLY AIR FLOW (CFM)	3,900
EXT. SP (IN. WC)	2.00
MIN. O.S.A. (CFM)	3,900
HP/BRAKE HP	7.5/5.657
VOLTS/PHASE	460/3
FAN TYPE/CLASS	DD PLENUM/M PRESS.
UNIT ELECTRICAL	NA
VOLTS/PHASE	460/3
FLA	9
MCA	11.75
MAX FUSE SIZE	20
COOLING COIL	
SENSIBLE (MBH)	132.8
TOTAL (MBH)	143.6
COIL SIZE (FT.²)	8.56
AIR PD (IN. WC)	0.20
EADB/EAWB (˚F)	105/72
LADB/LAWB (˚F)	74.3/61.7
VALVE TYPE	A
HEATING COIL	
CAPACITY (MBH)	140.0
COIL SIZE (FT.²)	8.56
AIR PD (IN. WC)	.2
EADB (˚F)	30
LADB (˚F)	63.2
FILTER	
QUANTITY/SIZE	2) 20x20x2
TYPE	DISPOSABLE
FINAL PD (IN WC)	0.6
MANUFACTURER	TRANE
TYPE	100% OSA
MODEL NUMBER	-
LOCATION	INTAKE BLDG.
OPER. WT (LBS)	1,598
ACCESSORIES	

ENERGY RECOVERY VENTILATOR SCHEDULE

DESIGNATION	ERV-1
UNIT	
POWER (VOLTS/PHASE)	208 / 3
MCA	16.6
MOCP	20
HEAT EXCHANGER	
HEAT TRANSFERRED (MBH)	40
THERMAL TRANSFER EFF. (%)	80.7
OUTSIDE AIR SIDE	
AIR FLOW (CFM)	1,580
TOTAL SP (IN. WC)	2.02
HP	1.38
FAN TYPE	FORWARD CURVED
DRIVE	BELT
FILTER	MERV 13
QUANTITY / SIZE	2) 20x24x2
EXHAUST SIDE	
AIR FLOW (CFM)	1,170
TOTAL SP (IN. WC)	1.25
HP	.62
FAN TYPE	FORWARD CURVED
DRIVE	BELT
FILTER	MERV 13
QUANTITY / SIZE	2) 20x24x2
MANUFACTURER	GREENHECK
MODEL NUMBER	ERV-20-15H
SERVICE	ADMIN. BLDG
OPER. WT (LBS)	830
ACCESSORIES	1

1. EXHAUST AIR DAMPER, OUTSIDE AIR DAMPER, EXHAUST AIR HOOD, OUTSIDE AIR HOOD, ACCESS DOOR, ACCESS PANEL, & ELECTRICAL CONTROL PANEL WITH SINGLE POINT POWER, CURB AND LINER.

BC CONTROLLER

DESIGNATION	BC-1	BC-2	BC-3
BRANCH PORTS	12	8	12
COOLING POWER INPUT (kW)	0.198 - 0.255	0.137 - 0.176	0.198 - 0.255
HEATING POWER INPUT (kW)	0.106 - 0.137	0.076 - 0.098	0.106 - 0.137
VOLTS/PHASE	208-230 / 1	208-230 / 1	208-230 / 1
MCA	1.82	0.97	1.82
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI
TYPE	MAIN	MAIN	MAIN
MODEL NUMBER	TCMBM1012JA11N4	TCMBM0108JA11N4	TCMBM1012JA11N4
OPER. WT (LBS)	145	115	145
ACCESSORIES	1	1	1

1. PROVIDE WITH BC-SERIES BALL VALVES FOR EACH BRANCH OUTLET CONNECTION.

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC (TYPE 3) FULL LOUVER FACE OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING WITH NO. 26 WHITE FINISH. (18"x18" NECK, ADAPTER SIZE SHOWN)
B	CEILING SUPPLY	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING WITH NO. 26 WHITE FINISH.
C	DUCT SUPPLY	TITUS MODEL US301FL WITH HORIZONTAL LOUVERS IN FRONT, 3/4" LOUVER SPACING, 1-1/4" WIDE FRAME, O.B.D. AND NO. 26 WHITE FINISH.
D	WALL SUPPLY	TITUS MODEL 1707 REGISTER WITH REMOVABLE CORE, 5 DEGREE UPWARD DEFLECTION AND NO. 26 WHITE FINISH.
E	CEILING RETURN OR EXHAUST	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.
F	CEILING RETURN OR EXHAUST	TITUS CORE 50FF (TYPE 1) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR SURFACE MOUNTING WITH NO. 26 WHITE FINISH.
G	FILTERED RETURN	TITUS MODEL 350RLF1 (TYPE 1) STEEL FILTER RETURN GRILLE FOR STD. LAY-IN CEILING WITH 1" FILTER, 35° DEFLECTION BLADES AT 3/4" SPACING AND NO. 26 WHITE FINISH. PROVIDE MERV 13 FILTER.
H	WALL EXHAUST	TITUS CORE 25RL (TYPE 1) STEEL RETURN WITH NO. 26 WHITE FINISH.
J	DOOR LOUVER	TITUS CORE 50F (TYPE 1) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR SURFACE MOUNTING WITH NO. 26 WHITE FINISH.
K	LOUVER	RUSKIN ELF 375DX STATIONARY EXTRUDED ALUMINUM BLADE DRAINABLE LOUVER. 1/2" MESH SCREEN ON INSIDE FACE. BAKED ENAMEL FINISH. COORD. COLOR W/ ARCH. FOR HOLLOW METAL FRAMES COORD. INSTALLATION W/ ARCH.

OUTDOOR UNIT SCHEDULE

DESIGNATION	ODU-1	ODU-2	ODU-3	ODU-4
MOP / MCA (NUMBER OF MODULES)	40 / 28 (1)	15 / 11 (1)	20 / 15 (2)	35 / 22
VOLTS / PHASE	460 / 3	460 / 3	460 / 3	460 / 3
IEER / COP (AT ARI)	21.3 / 3.3	23.8 / 3.76	24.3 / 3.60	25.8 / 3.80
COOLING CAP (MBH)	168.0	72.0	192.0	144.0
HEATING CAP (MBH)	188.0	80.0	215.0	160.0
REFRIGERANT	R410A	R410A	R410A	R410A
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
TYPE	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
MODEL NUMBER	TURYP1684AN40AN	TURYP0724AN40AN	TURYP1924BN40AN	TUHYE1444AN40AN
SERVICE	ADMINISTRATION	KENNEL	INTAKE	INTAKE
OPER. WT. (LBS)	850	600	1,250	715
ACCESSORIES				1

1. HIGH HEATING PERFORMANCE MODE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTLEY
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

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NOEL ROGER DAVIDSON III
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REN. 10-31-21
STATE OF CALIFORNIA

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Ren. 10-31-21
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

MECHANICAL SCHEDULES

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M9.1

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INDOOR UNIT SCHEDULE

DESIGNATION	IDU-1	IDU-2	IDU-3	IDU-4	IDU-5	IDU-6	IDU-7	IDU-8	IDU-9	IDU-10	IDU-11	IDU-12	IDU-13
BLOWER													
CFM	883	883	883	494	371	371	883	1,165	600	300	920	371	1,201
ESP (IN WC)													
MIN OSA	395	260	135	70	40	35	85	290	95	80	30	40	340
HP	0.16	0.16	0.16	0.11	0.11	0.11	0.16	0.33	0.11	0.11		0.11	0.33
VOLTS/PHASE	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1
RPM													
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
COOLING													
SENSIBLE (MBH)	19.2	19.2	21.6	11.4	8.4	8.4	19.2	28.0	13.7	6.4	19.6	8.4	35.7
TOTAL (MBH)	24.0	24.0	30.0	15.0	12.0	12.0	24.0	36.0	18.0	8.0	24.0	12.0	48.0
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEATING													
CAPACITY (MBH)	27.00	27.00	34.00	17.00	13.50	13.50	27.00	40.00	20.00	9.00	27.00	13.50	54.00
KW	0.15	0.15	0.15	0.07	0.07	0.07	0.15	0.22	0.09	0.04	0.07	0.07	0.32
FILTERS													
TYPE													
SIZE													
FINAL P D (IN WC)													
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
TYPE	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	WALL MOUNTED	DUCTED CONCEALED	DUCTED CONCEALED
MODEL NUMBER	TPEFYP024MA143A	TPEFYP024MA143A	TPEFYP030MA143A	TPEFYP015MA143A	TPEFYP012MA143A	TPEFYP012MA143A	TPEFYP024MA143A	TPEFYP036MA143A	TPEFYP018MA143A	TPEFYP008MA143A	TPKFYP024KM142A	TPEFYP012MA143A	TPEFYP048MA143A
SERVICE	1. CATS/ 2. CAT ADOPTION	5. LOBBY	4. STORAGE 6. RECEPTION 7. LICENSE-RECORDS	8. OFFICE 8 9. OFFICE 9 11. HALL	10. OFFICE 10	12. DISPATCH	13. GENERAL OFFICE	14. STORAGE 15. CONF. BREAK ROOM	16. TOILET 17. JANITOR 19. HALL	20. TOILET 21. TOILET 22. HALL 3. VEST 23. TOILET	18. STORAGE	TOILET / SHOWER LOCKERS	8. BREAKROOM 16. JANITOR 17. TOILET 20. EQUIPMENT 21. HALL
OPER. WT. (LBS)	80.00	80.00	80.00	70.00	60.00	60.00	80.00	100.00	70.00	60.00	46.00	60.00	100.00
ACCESSORIES													

IDU-14	IDU-15	IDU-16	IDU-17	IDU-18	IDU-19	IDU-20	IDU-21	IDU-22	IDU-23	IDU-24	IDU-25
371	600	494	494	742	494	600	1,412	1,165	1,165	600	494
60	165	45	105	730	280	125	200	1,160	1,160	80	55
0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.33	0.11	0.11	0.11	0.11
208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1
DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
8.4	13.8	11.4	11.4	19.2	11.4	13.8	35.7	28.0	28.0	13.8	11.4
12.0	18.0	15.0	15.0	24.0	15.0	18.0	48.0	36.0	36.0	18.0	15.0
80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
13.50	20.00	17.00	17.00	13.50	17.00	20.00	54.00	17.00	17.00	20.00	17.00
0.07	0.09	0.07	0.07	0.07	0.07	0.09	0.32	0.07	0.07	0.09	0.07
MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED	DUCTED CONCEALED
TPEFYP012MA143A	TPEFYP018MA143A	TPEFYP015MA143A	TPEFYP015MA143A	TPEFYP024MA143A	TPEFYP015MA143A	TPEFYP018MA143A	TPEFYP048MA143A	TPEFYP036MA143A	TPEFYP036MA143A	TPEFYP018MA143A	TPEFYP015MA143A
19. MEET AND GREET	18. LOBBY	1. FIELD OFFICE	2. CAT INTAKE & EAST HALL	3. CAT ISO 3 4. CAT ISO 4	5. ELEC. 6. JAN. 7. RR 8. RR HALL CENTER	9. LAUNDRY & HALL WEST	10. FOOD PREP 11. FOOD STOR.	12. DOG ISO 12 13. DOG ISO 13	14. DOG QUAR 14 15. DOG QUAR 15	16. EXAM	17. SECURE STORAGE 18. EUTH.
60.00	70.00	70.00	70.00	60.00	70.00	70.00	100.00	70.00	70.00	70.00	70.00

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CARPENTER
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY
LAWRENCE ENGINEERING GROUP
7084 N. Maple Ave., Suite 101
(559) 431-0101
20040
Fresno, CA 93720
FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

MECHANICAL SCHEDULES

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

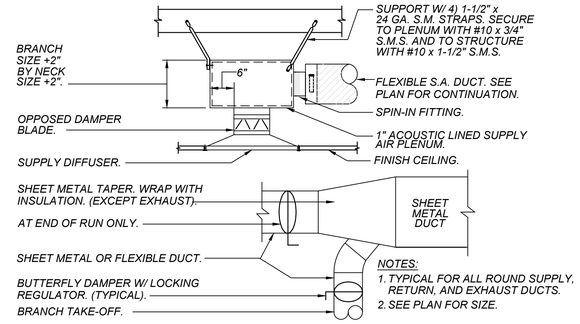
2220 Tulare Street, 8th Floor
Fresno, Caillifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

M9.2

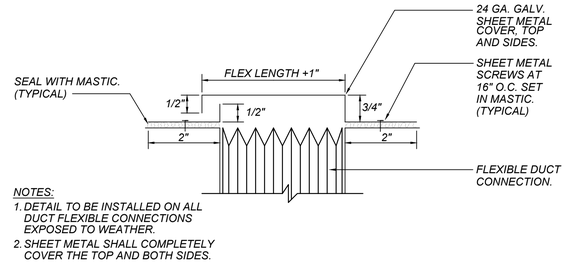
Drawn by: Plotted on:



SUPPLY AIR PLENUM AND BRANCH DUCTS

H / M10.1

SCALE: NONE



SHEET METAL WEATHER COVER

D / M10.1

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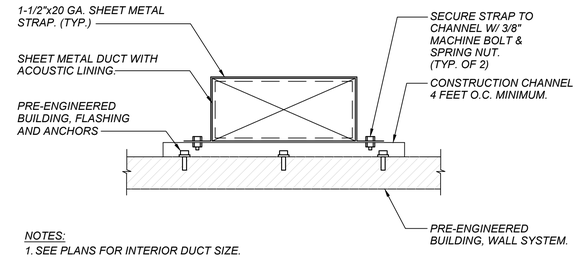

DUCT ON WALL SUPPORT

A / M10.1

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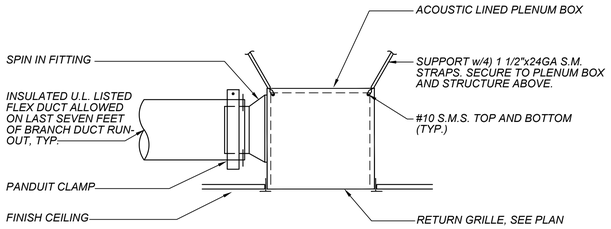
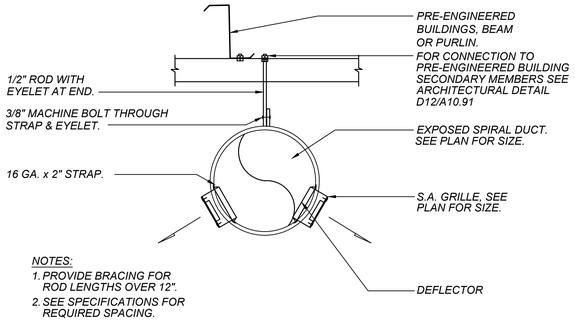


RETURN AIR GRILLE

J / M10.1

SCALE: NONE



EXPOSED DUCT AND SIDE GRILLE

E / M10.1

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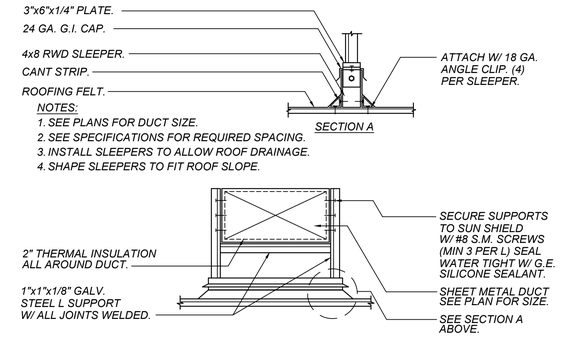
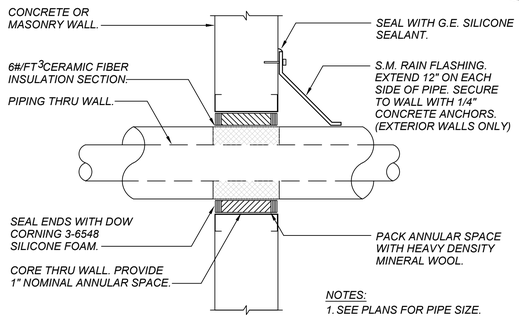


DUCT ON ROOF - RECT. INTERNAL INSUL.

B / M10.1

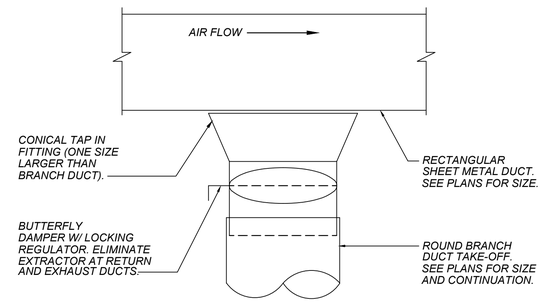
SCALE: NONE



PIPE - METAL STUD WALL W/ FIRESTOP

K / M10.1

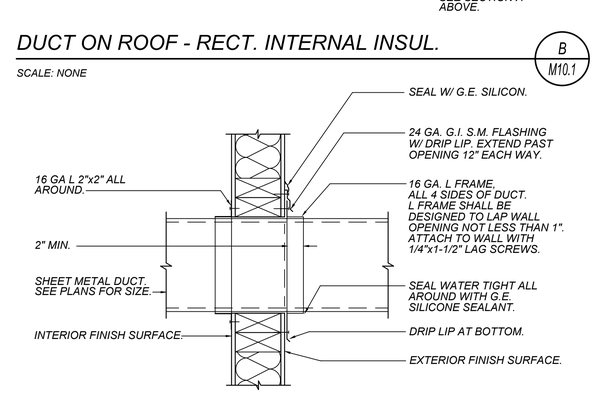
SCALE: NONE



SPIN-IN TAKE OFF

F / M10.1

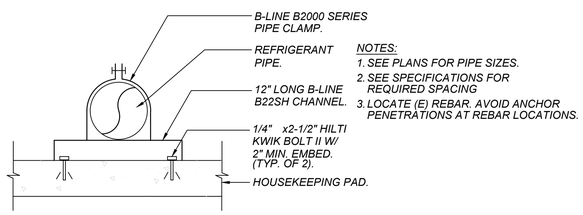
SCALE: NONE



DUCT THROUGH THE WALL

C / M10.1

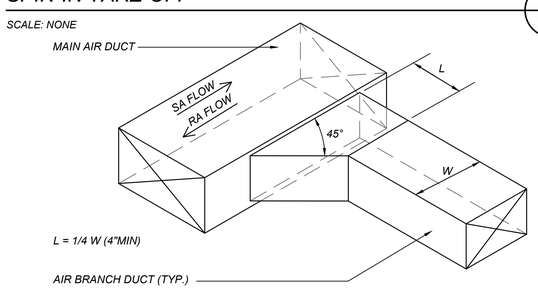
SCALE: NONE



PIPE SUPPORT - CONCRETE HOUSEKEEPING PAD

L / M10.1

SCALE: NONE



45° TAKE - OFF

G / M10.1

SCALE: NONE

REGISTERED PROFESSIONAL ENGINEER MEDREL D. CONTIMAY M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

7084 N. Maple Ave., Suite 101 (559) 431-0101 — 20040 — Fresno, CA 93720 FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

MECHANICAL DETAILS

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

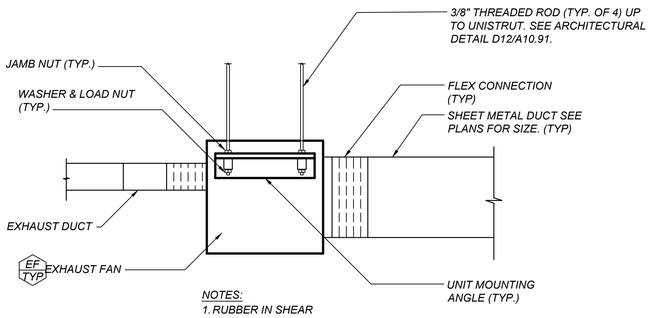
2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

M10.1

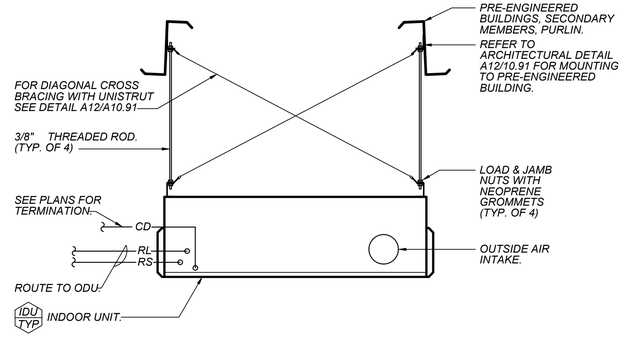
Drawn by: Plotted on:



EXHAUST FAN IN LINE CABINET

G / M10.2

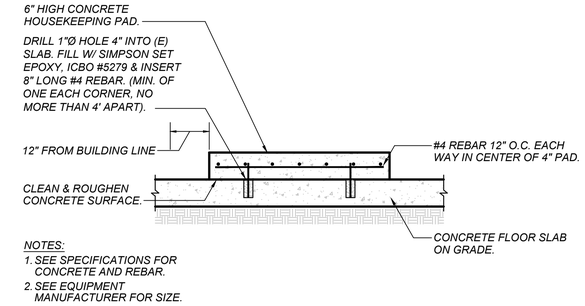
SCALE: NONE



INDOOR UNIT - CEILING SUSPENDED

D / M10.2

SCALE: NONE



HOUSEKEEPING PAD

A / M10.2

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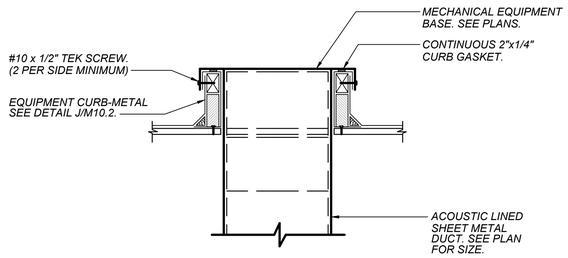
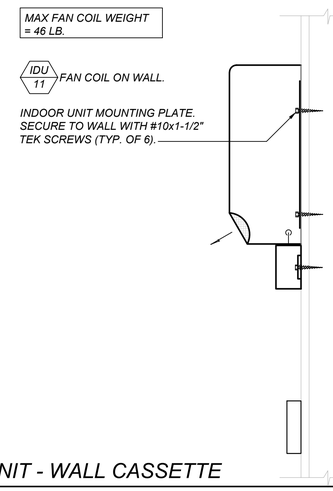


MECHANICAL EQUIPMENT ON METAL CURB

H / M10.2

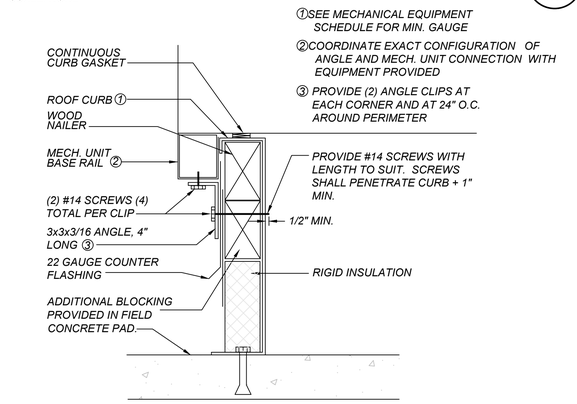
SCALE: NONE



INDOOR UNIT - WALL CASSETTE

E / M10.2

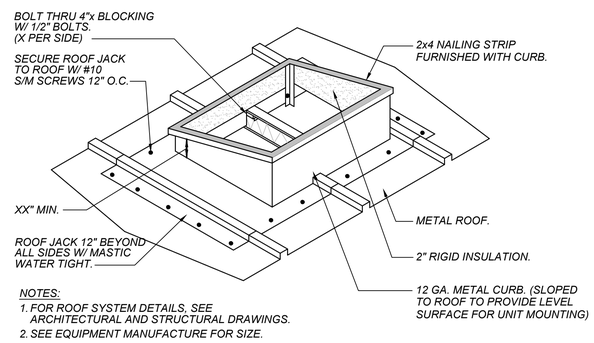
SCALE: NONE



AIR HANDLER MOUNTING DETAIL

B / M10.2

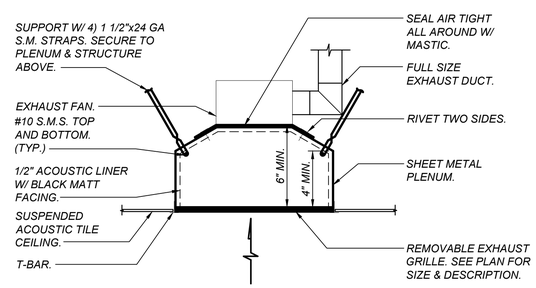
SCALE: NONE



MECHANICAL EQUIPMENT ON METAL CURB

J / M10.2

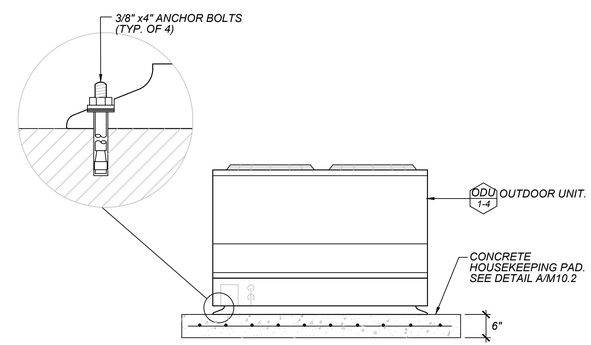
SCALE: NONE



CEILING EXHAUST FAN

F / M10.2

SCALE: NONE



OUTDOOR UNIT ON HOUSEKEEPING PAD

C / M10.2

SCALE: NONE

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. GANTZHAT M23588 REN. 9-30-2021 MECHANICAL STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

7084 N. Maple Ave., Suite 101 (559) 431-0101 — 20040 — Fresno, CA 93720 FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren: 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
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Fresno, California 93721

Office: (559) 600-4477
E-mail: noelrdavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

MECHANICAL DETAILS

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.2

Drawn by: Plotted on:

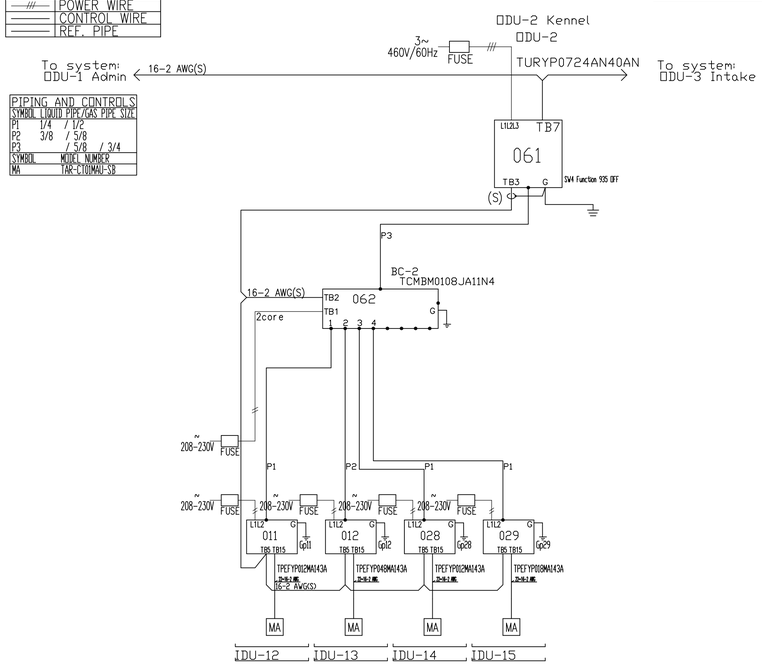
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
—#—	POWER WIRE
———	CONTROL WIRE
———	REF. PIPE

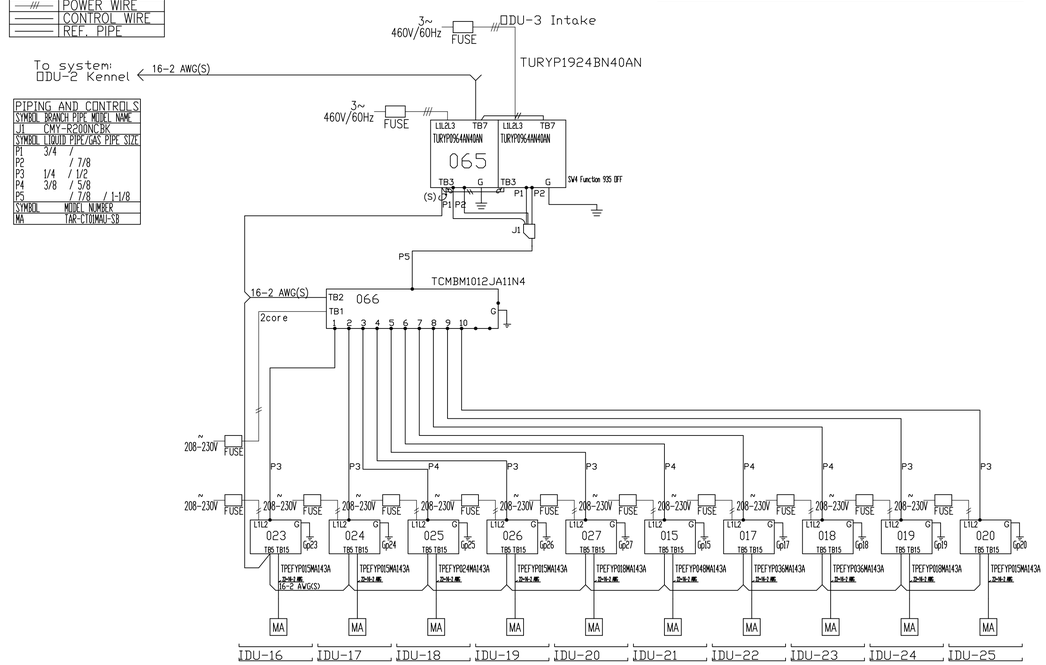
CONT.No		PAGE	

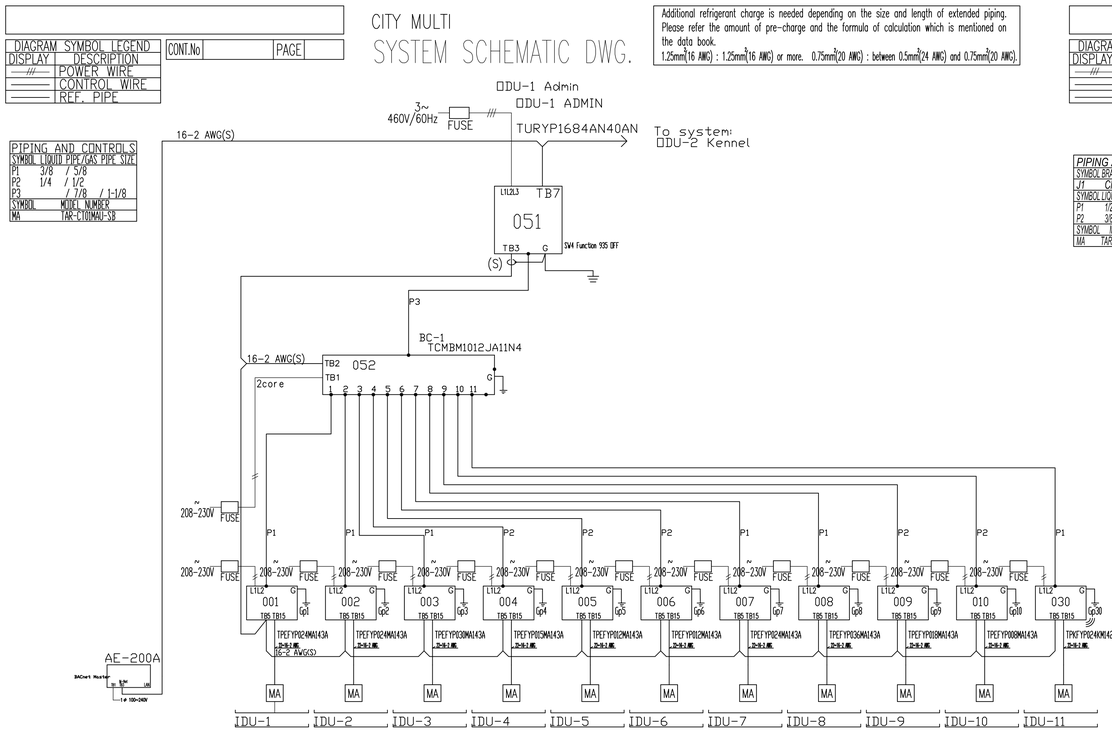
CITY MULTI

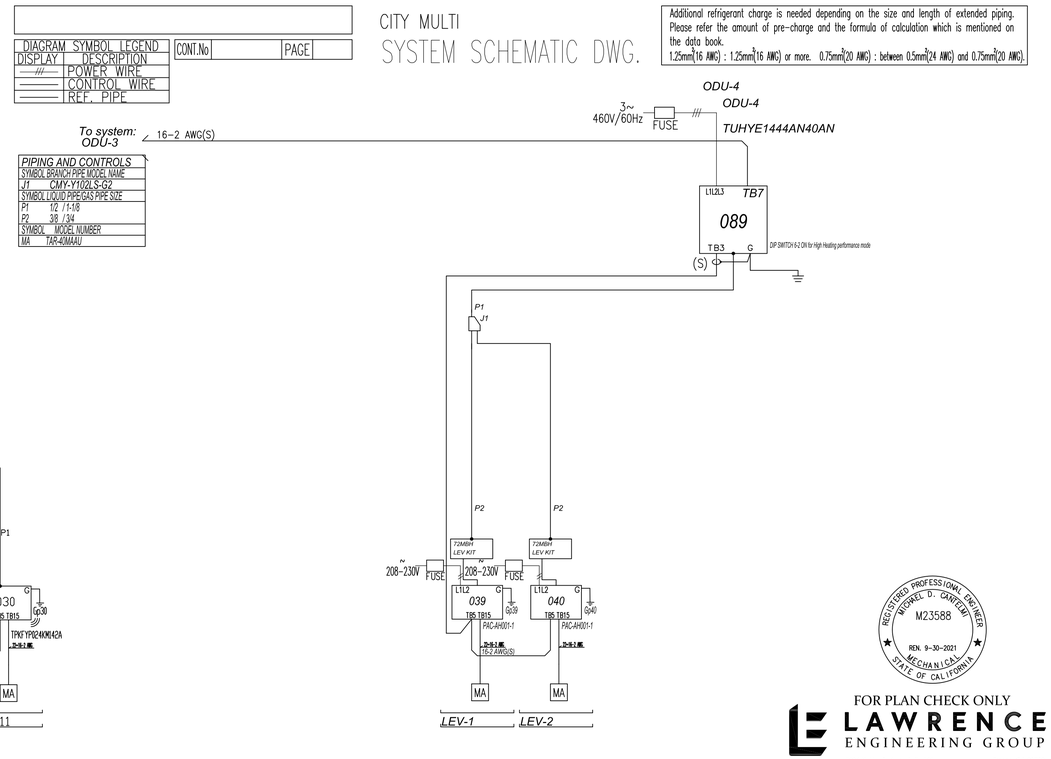
SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).









REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTERAY
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

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20040
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FAX (559) 431-1362

Legend

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Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

MECHANICAL PIPING AND WIRING DIAGRAMS

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.3

Drawn by: Plotted on:

Project Name:	Fresno Animal Control Center - Admin.	NRCC-PRF-01-E	Page 2 of 15
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	08:51, Wed, Jun 03, 2020
Input File Name:	20040 Fresno Animal Control Admin V8 _ 05.20.2020.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	47.12	56.93	-9.81
Space Cooling	152.91	104.92	47.99
Indoor Fans	250.75	121.89	128.86
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	9.60	10.10	-0.50
Indoor Lighting	41.65	41.65	--
ENERGY STANDARDS COMPLIANCE TOTAL	**502.03**	**335.49**	**166.54 (33.2%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	60.40	60.40	--
Process	118.83	118.83	--
Other Ltg	0.20	0.20	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**681.46**	**514.92**	**166.5 (24.4%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

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A. GENERAL INFORMATION

1.	Project Location (city)	Fresno	8.	Standards Version	Compliance2019
2.	CA Zip Code	93706	9.	Compliance Software (version)	EnergyPro 8.1
3.	Climate Zone	13	10.	Weather File	FRESNO_723890_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	4,478 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	32 ft²	12.	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐ Not Included		☒ Not Included			
Mechanical	☒ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI -E is required*
	☐ Not Included		☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E is required*
Domestic Hot Water	☒ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E is required*
	☐ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned)	☐ Performance				*Electrical power systems, commissioning and solar ready requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E is required*
Solar Thermal Water Heating	☐ Performance				Commissioning §120.8	*NRCC-CXR-E is required*
	☒ Not Included				Solar Ready S110.10	*NRCC-SRA-E is required*

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Fresno Animal Control Center - Administration Building
190 W. Dan Ronquillo Drive
Fresno, CA 93706

Project Designer:

Fresno County Department of Public Works and Planning
2220 Tulare Street, Eighth Floor
Fresno, CA 93721
(559) 600-4477

Report Prepared by:

Creighont Whaley
Lawrence Engineering Group
7084 North Maple Ave., Suite 101
Fresno, CA 93720
(559) 431-0101

Job Number:

20040

Date:

6/19/2020

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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H. FENESTRATION ASSEMBLY SUMMARY §110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]
Animal Control Glass	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	430	0.29	0.22	0.50	N
Animal Control Door Glass	VerticalFenestration GlazedDoor N/A	NFRC Rated	Manufactured	45	0.50	0.80	0.50	N

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
(N) Roof 19	Roof	Metal Standing Seam - 1/16 in. Compliance Insulation R33.00 Metal Deck - 1/16 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	4510	NA	0	33	U-Factor: 0.028	N
Ext 10C (wall 1)11	ExteriorWall	Metal Siding - 1/16 in. Extruded Polystyrene - XPS - 1 in. R5.00 Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.	4356	Metal	19	5	U-Factor: 0.091	N
Slab On Grade13	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	4510	NA	0	NA	F-Factor: 0.730	N

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E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

This Section Does Not Apply

G. ENVELOPE GENERAL INFORMATION

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	873 ft²	0 ft²	00.0%
East-Facing[2]	1,656 ft²	262 ft²	15.8%
South-Facing[3]	870 ft²	90 ft²	10.3%
West-Facing[4]	1,448 ft²	123 ft²	08.5%
Total	**4,847 ft²**	**475 ft²**	**09.8%**
Roof	4,478 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

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K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating: Total Heating Output (kBtu/h)	5 Heating: Supp Heat Source (Y/N)	6 Heating: Supp Heat Output (kBtuh)	7 Heating: Efficiency	8 Cooling: Total Cooling Output (kBtu/h)	9 Cooling: Efficiency	10 Status[2]
2-IDU 1-VRF	VRF (ODU 1)	1	27	No	0	NA	24	NA	N
3-IDU 2-VRF	VRF (ODU 1)	1	27	No	0	NA	24	NA	N
4-IDU 3-VRF	VRF (ODU 1)	1	34	No	0	NA	30	NA	N
5-IDU 4-VRF	VRF (ODU 1)	1	17	No	0	NA	15	NA	N
6-IDU 5-VRF	VRF (ODU 1)	1	14	No	0	NA	12	NA	N
7-IDU 6-VRF	VRF (ODU 1)	1	14	No	0	NA	12	NA	N
8-IDU 7-VRF	VRF (ODU 1)	1	27	No	0	NA	24	NA	N
9-IDU 8-VRF	VRF (ODU 1)	1	40	No	0	NA	36	NA	N
11-IDU 9-VRF	VRF (ODU 1)	1	20	No	0	NA	18	NA	N
12-IDU 10-VRF	VRF (ODU 1)	1	9	No	0	NA	8	NA	N
13-IDU 11-VRF	VRF (ODU 1)	1	27	No	0	NA	24	NA	N
ODU 1	VRF	1	188	NA	NA	COP-4.30	168	EER-13.13	N

[2] Status: N - New, A – Altered, E – Existing

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1 Name or Item Tag	2 System Type packaged, DOAS, etc.	3 Design OA CFM	4 Supply Fan CFM	5 Supply Fan BHP	6 Supply Fan Watts	7 Supply Fan Control	8 Return Fan CFM	9 Return Fan BHP	10 Return Fan Watts	11 Return Fan Control	12 Economizer Type (if present)	13 Status[2]
2-IDU 1-VRF	VRF	0	883	0.160	139.5	VariableSpeedDrive	NA	NA	NA	NA	NA	N
3-IDU 2-VRF	VRF	257	883	0.160	139.5	VariableSpeedDrive	NA	NA	NA	NA	NA	N
4-IDU 3-VRF	VRF	222	883	0.160	139.5	VariableSpeedDrive	NA	NA	NA	NA	NA	N

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I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
Interior Wall35	InteriorWall	Gypsum Board - 1/2 in. Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.	90	Metal	11	NA	U-Factor: 0.191	N
Ext 10C + Int 1A (wall 266	ExteriorWall	Metal Siding - 1/16 in. Extruded Polystyrene - XPS - 1 in. R5.00 Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Air - Cavity - Wall Roof Ceiling - 4 in. or more Air - Metal Wall Framing - 16 or 24 in. OC Gypsum Board - 5/8 in.	555	Metal	19	5	U-Factor: 0.080	N

[1] Status: N - New, A – Altered, E – Existing

I2. OVERHANG DETAILS

This Section Does Not Apply

I3. OPAQUE DOOR SUMMARY

This Section Does Not Apply

J. CRRC ROOFING PRODUCT SUMMARY S140.3

This Section Does Not Apply

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CARNEAL
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY
LAWRENCE ENGINEERING GROUP
7084 N. Maple Ave., Suite 101
(559) 431-0101
20040
Fresno, CA 93720
FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721
Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.4

Drawn by: Plotted on:

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K7. DISTRIBUTION SUMMARY §120.4/140.4(l)

This Section Does Not Apply

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
2-IDU 1-VRF	1-IDU 1	VRF	27.00	24.00	883	395	0.447339	0.160	139.5	☐	☒
3-IDU 2-VRF	2-IDU 2	VRF	27.00	24.00	883	260	0.294451	0.160	139.5	☐	☒
4-IDU 3-VRF	3-IDU 3	VRF	34.00	30.00	883	135	0.152888	0.160	139.5	☐	☒
5-IDU 4-VRF	4-IDU 4	VRF	17.00	15.00	494	70	0.1417	0.110	95.9	☐	☒
6-IDU 5-VRF	5-IDU 5	VRF	14.00	12.00	371	40	0.107817	0.110	95.9	☐	☒
7-IDU 6-VRF	6-IDU 6	VRF	14.00	12.00	371	35	0.094339 6	0.110	95.9	☐	☒
8-IDU 7-VRF	7-IDU 7	VRF	27.00	24.00	883	85	0.096262 7	0.160	139.5	☐	☒
9-IDU 8-VRF	8-IDU 8	VRF	40.00	36.00	1165	290	0.248927	0.330	287.8	☐	☒
11-IDU 9-VRF	10-IDU 9	VRF	20.00	18.00	600	95	0.158333	0.110	95.9	☐	☒
12-IDU 10-VRF	11-IDU 10	VRF	9.00	8.00	300	80	0.266667	0.110	95.9	☐	☒
13-IDU 11-VRF	12-IDU 11	VRF	27.00	24.00	920	30	0.032608 7	0.330	287.8	☐	☒

K9. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

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K4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps				Status[1]
							Qty	GPM	HP	VSD (Y/N)	

[1] Status: N – New, A – Altered, E – Existing

K5. SYSTEM FEATURES §120.2

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
ODU 1	NA	NA	NA	Yes	LoadPriority
Water Heater1 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

K6. MECHANICAL VENTILATION AND REHEAT §120.1

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-IDU 1	General - Corridors	0	3.08	0	92	955	615	NA
2-IDU 2	Office - Main entry lobbies	0	17.10	0	257	0	513	NA
3-IDU 3	Office - Main entry lobbies	0	14.77	0	222	0	443	NA
4-IDU 4	Office - Office space	0	2.08	0	62	0	416	NA
5-IDU 5	Office - Office space	0	1.21	0	36	0	242	NA
6-IDU 6	Office - Office space	0	1.09	0	33	0	219	NA
7-IDU 7	Office - Office space	0	2.70	0	81	180	540	NA
8-IDU 8	Office - Office space	0	2.78	0	83	250	556	NA
10-IDU 9	General - Corridors	0	1.75	0	53	375	350	NA
11-IDU 10	General - Corridors	0	1.96	0	59	375	392	NA
12-IDU 11	Office - Occupiable storage rooms for dry materials	0	0.19	0	29	0	192	NA

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K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status[1]
	packaged, DOAS, etc.		CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
5-IDU 4-VRF	VRF	62	494	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
6-IDU 5-VRF	VRF	36	371	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
7-IDU 6-VRF	VRF	33	371	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
8-IDU 7-VRF	VRF	0	883	0.160	139.5	VariableSpeedDrive	NA	NA	NA	NA	NA	N
9-IDU 8-VRF	VRF	0	1165	0.330	287.8	VariableSpeedDrive	NA	NA	NA	NA	NA	N
11-IDU 9-VRF	VRF	53	600	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
12-IDU 10-VRF	VRF	0	300	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
13-IDU 11-VRF	VRF	29	920	0.330	287.8	VariableSpeedDrive	NA	NA	NA	NA	NA	N

[1] Status: N – New, A – Altered, E – Existing

K3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
IDU 13	1-IDU 1	1	955	0.696	606.7	3.00
IDU 763	7-IDU 7	1	180	0.160	139.5	3.67
IDU 872	8-IDU 8	1	250	0.220	191.9	3.63
IDU 985	10-IDU 9	1	375	0.330	287.8	3.63
IDU 1097	11-IDU 10	1	375	0.330	287.8	3.63

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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCA-ENV-02-F - NRFC label verification for fenestration	☐	☐
	☐	☐	NRCA-ENV-03-F - Daylighting Design PAFs	☐	☐
Indoor Lighting	☐	☒	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	☐	☐
	☐	☒	NRCA-LTI-03-A - Automatic Daylight Controls	☐	☐
	☐	☒	NRCA-LTI-04-A - Demand Responsive Lighting Controls	☐	☐
	☐	☒	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	☐	☐
Covered Process	☐	☒	NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐	☒	NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐	☒	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls	☐	☐
	☐	☒	NRCA-PRC-13-F –Escalator and Moving Walkways Speed Control	☐	☐
	☐	☒	NRCA-PRC-14-F – Lab Exhaust Ventilation System	☐	☐
	☐	☒	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	☐	☐

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O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐
Mechanical	☒	☐	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐
Plumbing	☒	☐	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	☐	☐
	☐	☒	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCI-STH-01-E - Must be submitted for solar hot water heating systems	☐	☐
Indoor Lighting	☐	☒	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	☐	☐
	☐	☒	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	☐	☐
	☐	☒	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	☐	☐
Covered Process	☐	☒	NRCI-PRC-01-E - Must be submitted for all Covered Processes	☐	☐

Project Name:	Fresno Animal Control Center - Admin.	NRCC-PRF-01-E	Page 10 of 15
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	08:51, Wed, Jun 03, 2020
Input File Name:	20040 Fresno Animal Control Admin V8 _ 05.20.2020.cibd19x		

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

L1. DHW EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
WH 1 - LE240S3-32	Electricity	Storage	1	40.00	5.0 (kW)	UEF: 0.92	NA	SBLF: NA	NA	NA

L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

L3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

M. COVERED PROCESS SUMMARY §140.9

This Section Does Not Apply

N. INDOOR LIGHTING SUMMARY §140.6

This Section Does Not Apply

Project Name:	Fresno Animal Control Center - Admin.	NRCC-PRF-01-E	Page 15 of 15
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	08:51, Wed, Jun 03, 2020
Input File Name:	20040 Fresno Animal Control Admin V8 _ 05.20.2020.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Creighont Whaley	Signature:
Company: Lawrence Engineering Group	
Address: 7084 North Maple Ave., Suite 101	Signature Date: 2020-06-03
City/State/Zip: Fresno CA 93720	CEA/ HERS Certification Identification (if applicable):
Phone: (559) 431-0101	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Noel Roger Davidson II	Signature:	
Company: Fresno County Department of Public Works and Planning		
Address: 2220 Tulare Street, Eighth Floor	Date Signed:	
City/State/Zip: Fresno CA 93721		
Phone: (559) 600-4477	Title:	License #: C-27818
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Michael D. Cantelmi, P.E.	Signature:	
Company: Lawrence Engineering Group		
Address: 7084 North Maple Avenue, Suite 101	Date Signed:	
City/State/Zip: Fresno CA 93720		
Phone: (559) 431-0101	Title:	License #: M23588

Project Name:	Fresno Animal Control Center - Admin.	NRCC-PRF-01-E	Page 14 of 15
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	08:51, Wed, Jun 03, 2020
Input File Name:	20040 Fresno Animal Control Admin V8 _ 05.20.2020.cibd19x		

Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☐	☒	NRCV-MCH-04-H Duct Leakage Test	☐	☐
	☐	☒	NRCV-MCH-24-H Enclosure Air Leakage	☐	☐
	☐	☒	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	☐	☐
	☐	☒	NRCV-MCH-32-H Local Mechanical Exhaust	☐	☐
Plumbing	☐	☒	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐

R. UNMET LOAD HOURS

This Section Does Not Apply

Project Name:	Fresno Animal Control Center - Admin.	NRCC-PRF-01-E	Page 13 of 15
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	08:51, Wed, Jun 03, 2020
Input File Name:	20040 Fresno Animal Control Admin V8 _ 05.20.2020.cibd19x		

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☐	☒	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	☐	☐
	☐	☒	NRCA-MCH-03-A Constant Volume Single Zone HVAC	☐	☐
	☐	☒	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	☐	☐
	☐	☐	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	☐	☐
	☐	☒	NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☐	☒	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	☐	☐
	☐	☒	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☐	☒	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
	☐	☒	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
	☐	☒	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
	☐	☒	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	☐	☐
	☐	☒	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	☐	☐
	☐	☒	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-18 Energy Management Control Systems	☐	☐
	☐	☒	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTELMI
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

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(559) 431-0101 20040 FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON II C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.5

Drawn by: Plotted on:

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ^{2}-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	407.32	156.42	250.90
Space Cooling	482.30	197.81	284.49
Indoor Fans	347.63	709.63	-362.00
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	6.06	27.36	-21.30
Indoor Lighting	48.98	48.98	--
ENERGY STANDARDS COMPLIANCE TOTAL	**1,292.29**	**1,140.20**	**152.09 (11.8%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	66.48	66.48	--
Process	71.87	71.87	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**1,430.64**	**1,278.55**	**152.1 (10.6%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

A. GENERAL INFORMATION

1.	Project Location (city)	Fresno	8.	Standards Version	Compliance2019
2.	CA Zip Code	93706	9.	Compliance Software (version)	EnergyPro 8.1
3.	Climate Zone	13	10.	Weather File	FRESNO_723890_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	9,829 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐ Not Included		☒ Not Included			
Mechanical	☒ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI -E is required*
	☐ Not Included		☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E is required*
Domestic Hot Water	☒ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E is required*
	☐ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned)	☐ Performance				*Electrical power systems, commissioning and solar ready requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E is required*
Solar Thermal Water Heating	☐ Performance				Commissioning S120.8	*NRCC-CXR-E is required*
	☒ Not Included				Solar Ready S110.10	*NRCC-SRA-E is required*

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Fresno Animal Control Center - Kennels Building
190 W. Dan Ronquillo Drive
Fresno, CA 93706

Project Designer:

Fresno County Department of Public Works and Planning
2220 Tulare Street, Eighth Floor
Fresno, CA 93721
(559) 600-4477

Report Prepared by:

Creighont Whaley
Lawrence Engineering Group
7084 North Maple Ave., Suite 101
Fresno, CA 93720
(559) 431-0101

Job Number:

20040

Date:

6/19/2020

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

Legend

Keynotes

Key Plan

H. FENESTRATION ASSEMBLY SUMMARY §110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]
Animal Control Glass	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	480	0.29	0.22	0.50	N
Animal Control Door Glass	VerticalFenestration GlazedDoor N/A	NFRC Rated	Manufactured	75	0.50	0.80	0.50	N

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

[2] Status: N - New, A – Altered, E – Existing

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
(N) Roof 19	Roof	Metal Standing Seam - 1/16 in. Compliance Insulation R33.00 Metal Deck - 1/16 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	9768	NA	0	33	U-Factor: 0.028	N
Ext 10C (wall 1)11	ExteriorWall	Metal Siding - 1/16 in. Extruded Polystyrene - XPS - 1 in. R5.00 Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.	5662	Metal	19	5	U-Factor: 0.091	N
Slab On Grade13	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	9879	NA	0	NA	F-Factor: 0.730	N

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

This Section Does Not Apply

G. ENVELOPE GENERAL INFORMATION

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	1,222 ft²	42 ft²	03.4%
East-Facing[2]	1,718 ft²	291 ft²	16.9%
South-Facing[3]	1,143 ft²	42 ft²	03.7%
West-Facing[4]	1,580 ft²	180 ft²	11.4%
Total	**5,662 ft²**	**555 ft²**	**09.8%**
Roof	9,829 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9	10
			Heating				Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	Status[5]
MUA 1	HV (NA)	2	410	No	0	ThrmlEff-80.0	0	NA	N
2-IDU 12-VRF	VRF (ODU 2)	1	14	No	0	NA	12	NA	N
3-IDU 13-VRF	VRF (ODU 2)	1	54	No	0	NA	48	NA	N
4-IDU 14-VRF	VRF (ODU 2)	1	14	No	0	NA	12	NA	N
5-IDU 15-VRF	VRF (ODU 2)	1	20	No	0	NA	18	NA	N
ODU 2	VRF	1	80	NA	NA	COP-2.13	72	EER-6.55	N

[1] Status: N - New, A – Altered, E – Existing

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
	System Type	Design OA	Supply Fan				Return Fan					
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	Status[5]
MUA 1	HV	4259	6000	12.000	9683.1	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N
2-IDU 12-VRF	VRF	0	371	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
3-IDU 13-VRF	VRF	568	1201	0.330	287.8	VariableSpeedDrive	NA	NA	NA	NA	NA	N
4-IDU 14-VRF	VRF	53	371	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
5-IDU 15-VRF	VRF	0	600	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N

[1] Status: N - New, A – Altered, E – Existing

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
Interior Wall17	InteriorWall	Gypsum Board - 1/2 in. Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.	70	Metal	11	NA	U-Factor: 0.191	N
R-38 Roof Attic89	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-38 Gypsum Board - 1/2 in.	61	Wood	38	NA	U-Factor: 0.033	N

[1] Status: N - New, A – Altered, E – Existing

I2. OVERHANG DETAILS

This Section Does Not Apply

I3. OPAQUE DOOR SUMMARY

This Section Does Not Apply

J. CRRC ROOFING PRODUCT SUMMARY S140.3

This Section Does Not Apply

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

REGISTERED PROFESSIONAL ENGINEER
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REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

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LICENSED ARCHITECT
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C -27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
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Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
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Fresno, California 93721

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E-mailL ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.6

Drawn by: Plotted on:

Project Name:	Fresno Animal Control Center - Kennels	NRCC-PRF-01-E	Page 9 of 14
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Input File Name:	20040 Fresno Animal Control Kennels V8 _ 05.26.2020.cibd19x		

K9. EVAPORATIVE COOLER SUMMARY

1	2	3	4	5	6	7	8	9	Confirmed	
System ID	Type	Qty	Effectiveness	Pump Power (Watts)	Secondary Fan Flow Rate (cfm)	Secondary Fan Total Efficiency	Secondary Fan Static Pressure (in H20)	Secondary Air Source	Pass	Fail
ECD-MUA 1 - P125 H3256	Direct	2	0.8	0	NA	NA	NA	NA	☐	☐

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

L1. DHW EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
WH 2 - LE24053-32	Electricity	Storage	2	119.00	54.0 (kW)	Thrml. Eff.: 0.99	NA	SBLF: 0.010	NA	NA

L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

L3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

M. COVERED PROCESS SUMMARY §140.9

This Section Does Not Apply

N. INDOOR LIGHTING SUMMARY §140.6

This Section Does Not Apply

Project Name:	Fresno Animal Control Center - Kennels	NRCC-PRF-01-E	Page 8 of 14
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	08:54, Wed, Jun 03, 2020
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K6. MECHANICAL VENTILATION AND REHEAT §120.1

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
2-IDU 13	Office - Breakrooms	0	37.90	0	568	400	810	NA
3-IDU 14	Office - Office space	0	1.77	0	53	0	355	NA
4-IDU 15	Office - Main entry lobbies	0	26.87	0	403	440	403	NA
5-Dog Kennels	Exhaust - Locker rooms for athletic or industrial facilities	0	154.71	0	8518	24000	7863	NA

K7. DISTRIBUTION SUMMARY §120.4/140.4(l)

This Section Does Not Apply

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
2-IDU 12-VRF	1-IDU 12	VRF	14.00	12.00	371	40	0.107817	0.110	95.9	☐	☒
3-IDU 13-VRF	2-IDU 13	VRF	54.00	48.00	1201	340	0.283097	0.330	287.8	☐	☒
4-IDU 14-VRF	3-IDU 14	VRF	14.00	12.00	371	60	0.161725	0.110	95.9	☐	☒
5-IDU 15-VRF	4-IDU 15	VRF	20.00	18.00	600	165	0.275	0.110	95.9	☐	☒
5-Dog Kennels-Trm	5-Dog Kennels	Uncontrolled	NA	NA	24000	NA	0.00	NA	NA	NA	☐

Project Name:	Fresno Animal Control Center - Kennels	NRCC-PRF-01-E	Page 7 of 14
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K3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
IDU 123	1-IDU 12	1	150	0.037	32.0	1.01
IDU 1324	2-IDU 13	1	400	0.057	50.0	0.59
IDU 1546	4-IDU 15	1	440	0.115	99.9	1.07
Dog Kennels57	5-Dog Kennels	2	12,000	12.560	10135.0	4.32

K4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps				Status[1]
							Qty	GPM	HP	VSD (Y/N)	

[1] Status: N - New, A – Altered, E – Existing

K5. SYSTEM FEATURES §120.2

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
MUA 1	Optimum Start	NA	Evaporative Cooler (Direct)	No Heat RecoveryNo	No DCV Controls, DDC Controls No Economizer No Supply Air Temp. Control
ODU 2	NA	NA	NA	No	LoadPriority
Water Heaters1 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

K6. MECHANICAL VENTILATION AND REHEAT §120.1

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-IDU 12	Exhaust - All other locker rooms	0	7.96	0	0	150	398	NA

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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☒	☐	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	☐	☐
	☒	☐	NRCA-MCH-03-A Constant Volume Single Zone HVAC	☐	☐
	☐	☒	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	☐	☐
	☐	☐	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	☐	☐
	☐	☒	NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☐	☒	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c3)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	☐	☐
	☐	☒	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☐	☒	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
	☐	☒	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
	☐	☒	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
	☐	☒	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	☐	☐
	☐	☒	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	☐	☐
	☐	☒	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-18 Energy Management Control Systems	☐	☐
	☐	☒	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐

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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCA-ENV-02-F - NRFC label verification for fenestration	☐	☐
	☐	☐	NRCA-ENV-03-F - Daylighting Design PAFs	☐	☐
Indoor Lighting	☐	☒	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	☐	☐
	☐	☒	NRCA-LTI-03-A - Automatic Daylight Controls	☐	☐
	☐	☒	NRCA-LTI-04-A - Demand Responsive Lighting Controls	☐	☐
	☐	☒	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	☐	☐
Covered Process	☐	☒	NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐	☒	NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐	☒	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls	☐	☐
	☐	☒	NRCA-PRC-13-F –Escalator and Moving Walkways Speed Control	☐	☐
	☐	☒	NRCA-PRC-14-F – Lab Exhaust Ventilation System	☐	☐
	☐	☒	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	☐	☐

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O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐
Mechanical	☒	☐	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐
Plumbing	☒	☐	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	☐	☐
	☐	☒	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCI-STH-01-E - Must be submitted for solar hot water heating systems	☐	☐
Indoor Lighting	☐	☒	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	☐	☐
	☐	☒	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	☐	☐
	☐	☒	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	☐	☐
Covered Process	☐	☒	NRCI-PRC-01-E - Must be submitted for all Covered Processes	☐	☐

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Creighont Whaley	Signature:	
Company: Lawrence Engineering Group		
Address: 7084 North Maple Ave., Suite 101	Signature Date: 2020-06-03	
City/State/Zip: Fresno CA 93720	CEA/ HERS Certification Identification (if applicable):	
Phone: (559) 431-0101		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Noel Roger Davidson II	Signature:	
Company: Fresno County Department of Public Works and Planning		
Address: 2220 Tulare Street, Eighth Floor	Date Signed:	
City/State/Zip: Fresno CA 93721		
Phone: (559) 600-4477	Title:	License #: C-27818
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Michael D. Cantelmi, P.E.	Signature:	
Company: Lawrence Engineering Group		
Address: 7084 North Maple Avenue, Suite 101	Date Signed:	
City/State/Zip: Fresno CA 93720		
Phone: (559) 431-0101	Title:	License #: M23588

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Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☐	☒	NRCV-MCH-04-H Duct Leakage Test	☐	☐
	☐	☒	NRCV-MCH-24-H Enclosure Air Leakage	☐	☐
	☐	☒	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	☐	☐
	☐	☒	NRCV-MCH-32-H Local Mechanical Exhaust	☐	☐
Plumbing	☐	☒	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐

R. UNMET LOAD HOURS

This Section Does Not Apply

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTELMI
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY
LAWRENCE ENGINEERING GROUP
7084 N. Maple Ave., Suite 101
(559) 431-0101
20040
Fresno, CA 93720
FAX (559) 431-1362

Legend

Keynotes

Key Plan

LICENSED ARCHITECT
NOEL ROGER DAVIDSON II
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.7

Drawn by: Plotted on:

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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	49.11	60.99	-11.88
Space Cooling	120.34	79.27	41.07
Indoor Fans	163.78	66.69	97.09
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	13.49	43.62	-30.13
Indoor Lighting	39.37	39.37	--
ENERGY STANDARDS COMPLIANCE TOTAL	**386.09**	**289.94**	**96.15 (24.9%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	102.91	102.91	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**489.00**	**392.85**	**96.2 (19.7%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

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A. GENERAL INFORMATION

1.	Project Location (city)	Fresno	8.	Standards Version	Compliance2019
2.	CA Zip Code	93706	9.	Compliance Software (version)	EnergyPro 8.1
3.	Climate Zone	13	10.	Weather File	FRESNO_723890_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	5,942 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐ Not Included		☒ Not Included			
Mechanical	☒ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI -E is required*
	☐ Not Included		☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E is required*
Domestic Hot Water	☒ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E is required*
	☐ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned)	☐ Performance				*Electrical power systems, commissioning and solar ready requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E is required*
Solar Thermal Water Heating	☐ Performance				Commissioning §120.8	*NRCC-CXR-E is required*
	☒ Not Included				Solar Ready S110.10	*NRCC-SRA-E is required*

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Fresno Animal Control Center - Intake Building
190 W. Dan Ronquillo Drive
Fresno, CA 93706

Project Designer:

Fresno County Department of Public Works and Planning
2220 Tulare Street, Eighth Floor
Fresno, CA 93721
(559) 600-4477

Report Prepared by:

Creighont Whaley
Lawrence Engineering Group
7084 North Maple Ave., Suite 101
Fresno, CA 93720
(559) 431-0101

Job Number:

20040

Date:

6/19/2020

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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H. FENESTRATION ASSEMBLY SUMMARY §110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]
Animal Control Glass	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	430	0.29	0.22	0.50	N
Animal Control Door Glass	VerticalFenestration GlazedDoor N/A	NFRC Rated	Manufactured	30	0.50	0.80	0.50	N

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
(N) Roof 18	Roof	Metal Standing Seam - 1/16 in. Compliance Insulation R33.00 Metal Deck - 1/16 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	5852	NA	0	33	U-Factor: 0.028	N
Ext 10C (wall 1)10	ExteriorWall	Metal Siding - 1/16 in. Extruded Polystyrene - XPS - 1 in. R5.00 Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 5/8 in.	5114	Metal	19	5	U-Factor: 0.091	N
Slab On Grade15	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	5942	NA	0	NA	F-Factor: 0.730	N

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E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

This Section Does Not Apply

G. ENVELOPE GENERAL INFORMATION

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	1,861 ft²	138 ft²	07.4%
East-Facing[2]	691 ft²	86 ft²	12.4%
South-Facing[3]	1,875 ft²	212 ft²	11.3%
West-Facing[4]	688 ft²	24 ft²	03.5%
Total	**5,114 ft²**	**460 ft²**	**09.0%**
Roof	5,942 ft²	0 ft²	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

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K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating: Total Heating Output (kBtu/h)	5 Heating: Supp Heat Source (Y/N)	6 Heating: Supp Heat Output (kBtuh)	7 Heating: Efficiency	8 Cooling: Total Cooling Output (kBtu/h)	9 Cooling: Efficiency	10 Status[2]
2-IDU 16-VRF	VRF (ODU 3 + ODU 4)	1	17	No	0	NA	15	NA	N
3-IDU 17-VRF	VRF (ODU 3 + ODU 4)	1	17	No	0	NA	15	NA	N
4-IDU 18-VRF	VRF (ODU 3 + ODU 4)	1	14	No	0	NA	24	NA	N
5-IDU 19-VRF	VRF (ODU 3 + ODU 4)	1	17	No	0	NA	15	NA	N
6-IDU 20-VRF	VRF (ODU 3 + ODU 4)	1	20	No	0	NA	18	NA	N
7-IDU 21-VRF	VRF (ODU 3 + ODU 4)	1	54	No	0	NA	48	NA	N
8-IDU 22-VRF	VRF (ODU 3 + ODU 4)	1	17	No	0	NA	36	NA	N
9-IDU 23-VRF	VRF (ODU 3 + ODU 4)	1	17	No	0	NA	36	NA	N
10-IDU 24-VRF	VRF (ODU 3 + ODU 4)	1	20	No	0	NA	18	NA	N
11-IDU 25-VRF	VRF (ODU 3 + ODU 4)	1	17	No	0	NA	15	NA	N
ODU 3 + ODU 4	VRF	2	375	NA	NA	COP-8.45	336	EER-25.85	N

[2] Status: N - New, A – Altered, E – Existing

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1 Name or Item Tag	2 System Type packaged, DOAS, etc.	3 Design OA CFM	4 Supply Fan CFM	5 Supply Fan BHP	6 Supply Fan Watts	7 Supply Fan Control	8 Return Fan CFM	9 Return Fan BHP	10 Return Fan Watts	11 Return Fan Control	12 Economizer Type (if present)	13 Status[2]
2-IDU 16-VRF	VRF	38	494	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
3-IDU 17-VRF	VRF	97	494	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
4-IDU 18-VRF	VRF	0	742	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
5-IDU 19-VRF	VRF	70	494	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N

Project Name:	Fresno Animal Control Center - Intake	NRCC-PRF-01-E	Page 5 of 15
Project Address:	190 W. Dan Ronquillo Drive Fresno 93706	Calculation Date/Time:	09:53, Fri, Jun 19, 2020
Input File Name:	20040 Fresno Animal Control Intake V8 _ 05.23.2020.cibd19x		

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft²)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
Interior Wall40	InteriorWall	Gypsum Board - 1/2 in. Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 3.5in., R-11 Gypsum Board - 1/2 in.	50	Metal	11	NA	U-Factor: 0.191	N
R-38 Roof Attic43	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-38 Gypsum Board - 1/2 in.	90	Wood	38	NA	U-Factor: 0.033	N

[1] Status: N - New, A – Altered, E – Existing

I2. OVERHANG DETAILS

This Section Does Not Apply

I3. OPAQUE DOOR SUMMARY

1 Assembly Name	2 Overall U-factor	3 Status[1]
Metal Door71	0.700	N
Roll-Up Door92	1.450	N

J. CRRC ROOFING PRODUCT SUMMARY S140.3

This Section Does Not Apply

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. GARRETT
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY
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20040
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Legend

Keynotes

Key Plan

LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
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Development Services and Capital Projects Division
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

Sheet No:

M10.8

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Does the Project include Zonal Systems?	Yes

K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
2-IDU 16-VRF	1-IDU 16	VRF	17.00	15.00	494	45	0.0910931	0.110	95.9	☐	☒
3-IDU 17-VRF	2-IDU 17	VRF	17.00	15.00	494	105	0.212551	0.110	95.9	☐	☒
4-IDU 18-VRF	3-IDU 18	VRF	14.00	24.00	742	730	0.983827	0.110	95.9	☐	☒
5-IDU 19-VRF	4-IDU 19	VRF	17.00	15.00	494	280	0.566802	0.110	95.9	☐	☒
6-IDU 20-VRF	5-IDU 20	VRF	20.00	18.00	600	125	0.208333	0.110	95.9	☐	☒
7-IDU 21-VRF	6-IDU 21	VRF	54.00	48.00	1412	200	0.141643	0.330	287.8	☐	☒
8-IDU 22-VRF	7-IDU 22	VRF	17.00	36.00	1165	1160	0.995708	0.110	95.9	☐	☒
9-IDU 23-VRF	8-IDU 23	VRF	17.00	36.00	1165	1160	0.995708	0.110	95.9	☐	☒
10-IDU 24-VRF	9-IDU 24	VRF	20.00	18.00	600	80	0.133333	0.110	95.9	☐	☒
11-IDU 25-VRF	10-IDU 25	VRF	17.00	15.00	494	55	0.111336	0.110	95.9	☐	☒

K9. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

L1. DHW EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (In/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
WH 2 - LE240S3-32	Electricity	Storage	2	119.00	54.0 (kW)	Thrml. Eff.: 0.99	NA	SBLF: 0.010	NA	NA

K5. SYSTEM FEATURES §120.2

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
ODU 3 + ODU 4	NA	NA	NA	No	LoadPriority
Water Heaters1 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

K6. MECHANICAL VENTILATION AND REHEAT §120.1

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-IDU 16	Office - Office space	0	1.26	0	38	0	253	NA
2-IDU 17	Office - Office space	0	3.25	0	97	0	649	NA
3-IDU 18	Exhaust - All other locker rooms	0	7.30	0	548	900	365	NA
4-IDU 19	General - Corridors	0	2.35	0	70	500	469	NA
5-IDU 20	Lodging - Laundry rooms, central	0	3.81	0	114	0	762	NA
6-IDU 21	Office - Office space	0	6.49	0	195	0	1297	NA
7-IDU 22	Exhaust - All other locker rooms	0	12.02	0	902	1300	601	NA
8-IDU 23	Exhaust - All other locker rooms	0	6.04	0	906	1300	604	NA
9-IDU 24	Misc - All others	0	2.52	0	76	0	504	NA
10-IDU 25	Misc - All others	0	2.19	0	66	0	438	NA

K7. DISTRIBUTION SUMMARY §120.4/140.4(l)

This Section Does Not Apply

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status[2]
	packaged, DOAS, etc.		CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
6-IDU 20-VRF	VRF	114	600	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
7-IDU 21-VRF	VRF	195	1412	0.330	287.8	VariableSpeedDrive	NA	NA	NA	NA	NA	N
8-IDU 22-VRF	VRF	0	1165	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
9-IDU 23-VRF	VRF	0	1165	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
10-IDU 24-VRF	VRF	76	600	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N
11-IDU 25-VRF	VRF	66	494	0.110	95.9	VariableSpeedDrive	NA	NA	NA	NA	NA	N

[2] Status: N - New, A – Altered, E – Existing

K3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H20)
IDU 1827	3-IDU 18	2	450	0.115	99.9	1.05
IDU 1941	4-IDU 19	4	125	0.014	12.0	0.45
IDU 2294	7-IDU 22	2	650	0.214	186.9	1.36
IDU 23103	8-IDU 23	2	650	0.214	186.9	1.36

K4. Wet System Equipment (boilers, chillers, cooling towers, etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps				Status[1]
							Qty	GPM	HP	VSD (Y/N)	

[1] Status: N - New, A – Altered, E – Existing

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCA-ENV-02-F - NRFC label verification for fenestration	☐	☐
	☐	☐	NRCA-ENV-03-F - Daylighting Design PAFs	☐	☐
Indoor Lighting	☐	☒	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	☐	☐
	☐	☒	NRCA-LTI-03-A - Automatic Daylight Controls	☐	☐
	☐	☒	NRCA-LTI-04-A - Demand Responsive Lighting Controls	☐	☐
	☐	☒	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	☐	☐
Covered Process	☐	☒	NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐	☒	NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐	☒	NRCA-PRC-12-F – Elevator Lighting and Ventilation Controls	☐	☐
	☐	☒	NRCA-PRC-13-F –Escalator and Moving Walkways Speed Control	☐	☐
	☐	☒	NRCA-PRC-14-F – Lab Exhaust Ventilation System	☐	☐
	☐	☒	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Envelope	☒	☐	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐
Mechanical	☒	☐	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐
Plumbing	☒	☐	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water system distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	☐	☐
	☐	☒	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCI-STH-01-E - Must be submitted for solar hot water heating systems	☐	☐
Indoor Lighting	☐	☒	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	☐	☐
	☐	☒	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	☐	☐
	☐	☒	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	☐	☐
Covered Process	☐	☒	NRCI-PRC-01-E - Must be submitted for all Covered Processes	☐	☐

L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

L3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

M. COVERED PROCESS SUMMARY §140.9

This Section Does Not Apply

N. INDOOR LIGHTING SUMMARY §140.6

This Section Does Not Apply

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Creighont Whaley	Signature:	
Company: Lawrence Engineering Group		
Address: 7084 North Maple Ave., Suite 101	Signature Date: 2020-06-19	
City/State/Zip: Fresno CA 93720	CEA/ HERS Certification Identification (if applicable):	
Phone: (559) 431-0101		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Noel Roger Davidson II	Signature:	
Company: Fresno County Department of Public Works and Planning		
Address: 2220 Tulare Street, Eighth Floor	Date Signed:	
City/State/Zip: Fresno CA 93721		
Phone: (559) 600-4477	Title:	License #: C-27818
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Michael D. Cantelmi, P.E.	Signature:	
Company: Lawrence Engineering Group		
Address: 7084 North Maple Avenue, Suite 101	Date Signed:	
City/State/Zip: Fresno CA 93720		
Phone: (559) 431-0101	Title:	License #: M23588

Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☐	☒	NRCV-MCH-04-H Duct Leakage Test	☐	☐
	☐	☒	NRCV-MCH-24-H Enclosure Air Leakage	☐	☐
	☐	☒	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	☐	☐
	☐	☒	NRCV-MCH-32-H Local Mechanical Exhaust	☐	☐
Plumbing	☐	☒	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐

R. UNMET LOAD HOURS

This Section Does Not Apply

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector	
				Pass	Fail
Mechanical	☐	☒	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	☐	☐
	☐	☒	NRCA-MCH-03-A Constant Volume Single Zone HVAC	☐	☐
	☐	☒	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	☐	☐
	☐	☐	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	☐	☐
	☐	☒	NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☐	☒	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	☐	☐
	☐	☒	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☐	☒	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
	☐	☒	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
	☐	☒	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
	☐	☒	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	☐	☐
	☐	☒	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	☐	☐
	☐	☒	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-18 Energy Management Control Systems	☐	☐
	☐	☒	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTELMI
M23588
REN. 9-30-2021
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY
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Legend

Keynotes

Key Plan

LICENSED ARCHITECT NOEL ROGER DAVIDSON II C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
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Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
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Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24

Project No: **Date:**

Fresno County Department of Public Works and Planning Development Services and Capital Projects Division

2220 Tulare Street, 8th Floor
Fresno, Cailifornia 93721

THE COUNTY OF FRESNO 1856

Sheet No:

M10.9

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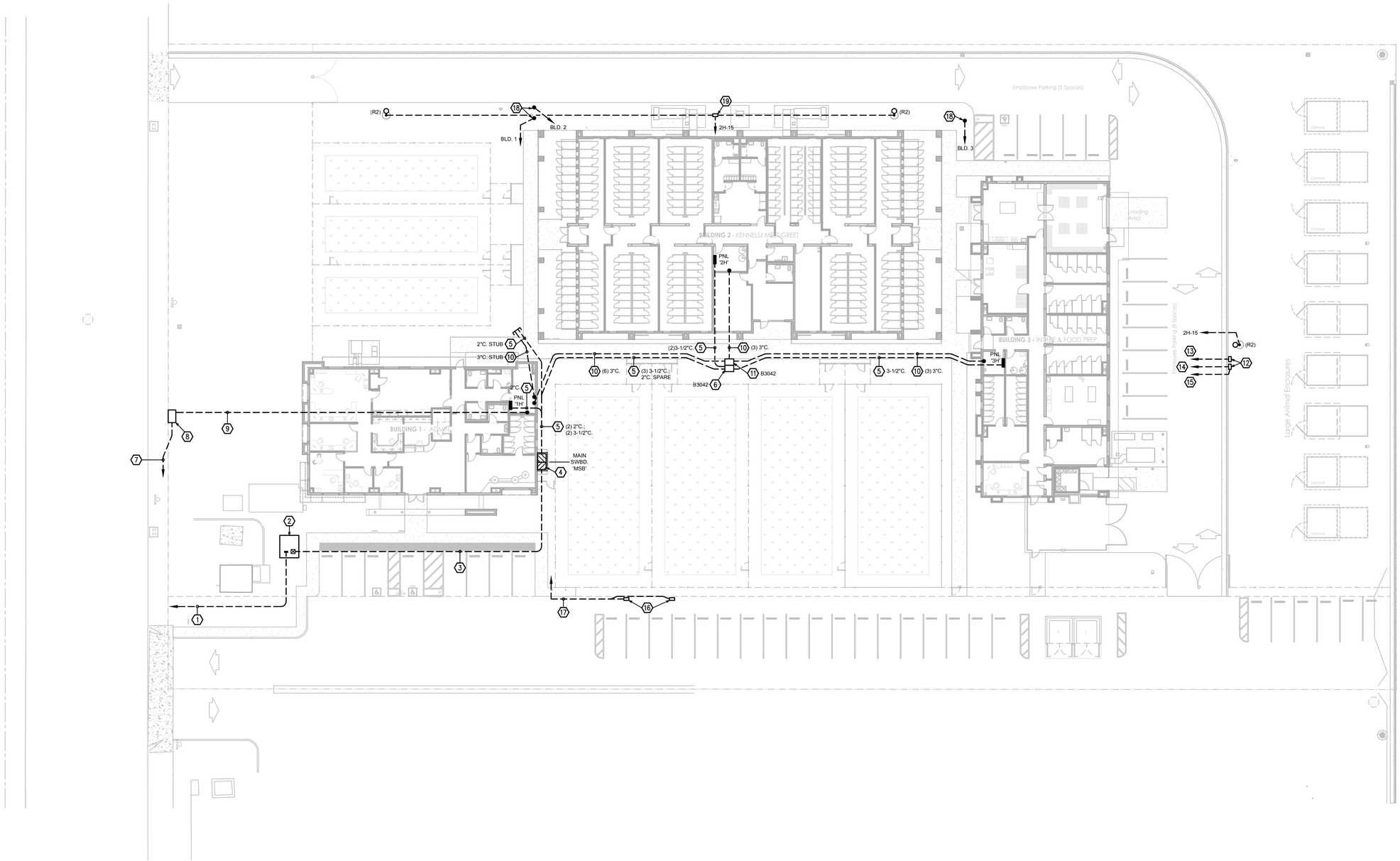

Keynotes

1. 4"C. PG&E PRIMARY PER RULE 16.
2. PG&E 90" x 106" CONCRETE PAD PER RULE 16.
3. (4) 5"C. PG&E SECONDARY PER RULE 16.
4. MAIN SWITCHBOARD 'MSB' AND CONCRETE PAD.
5. POWER CONDUITS AS NOTED.
6. POWER VAULT AS NOTED. PROVIDE VAULT, EXTENSION, AND BOLT DOWN STEEL LID.
7. (2) 4"C. TO AT&T POINT OF CONNECTION PER AT&T DRAWINGS.
8. AT&T 3x5 VAULT.
9. (2) 4"C. AT&T SERVICE.
10. LOW VOLTAGE CONDUITS AS NOTED.
11. LOW VOLTAGE VAULT AS NOTED. PROVIDE VAULT, EXTENSION, AND BOLT DOWN STEEL LID.
12. B1324 PULLBOX AND BOLT-DOWN STEEL LID.
13. (2) 2"C. TO BLD. 3 LVS BACKBOARD.
14. 1-1/2"C. TO PANEL 3H.
15. 1-1/2"C. TO PANEL 3L.
16. B1017 VAULT FOR FUTURE EV CHARGER STATION. PROVIDE VAULT, EXTENSION, AND BOLT DOWN STEEL LID.
17. (2) 1-1/2"C. TO PANEL 1L.
18. RISE AT PIV AND MAKE CONNECTION TO OS&Y VALVE TAMPER SWITH. HOMERUN 1"C. TO LOW VOLTAGE BACKBOARD IN NOTED BUILDING.
19. B1017 VAULT FOR LIGHTING. PROVIDE VAULT, EXTENSION, AND BOLT DOWN STEEL LID.

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

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356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
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LICENSED ARCHITECT
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C-27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

ELECTRICAL SITE PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

E1.1

A12 ELECTRICAL SITE PLAN
1" = 20'-0"

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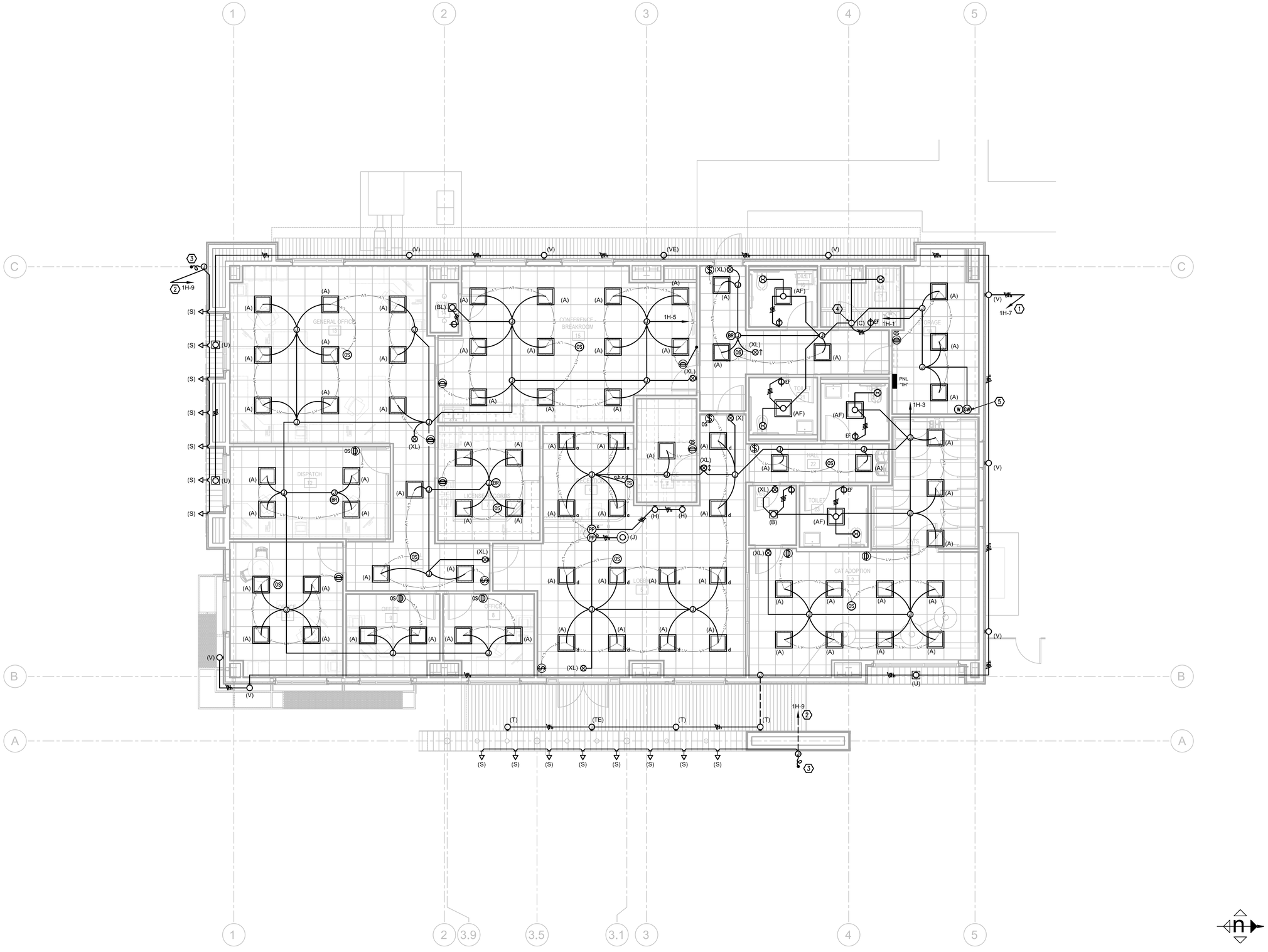

Keynotes

1. HOMERUN TO nLIGHT DIMMING POWER PACK. RUN UNCONTROLLED HOT ALONG WITH OTHER CONDUCTORS FOR BATTERY PACKS.
2. HOMERUN TO nLIGHT NON-DIMMING POWER PACK.
3. CONNECT INTERNALLY ILLUMINATED SIGNAGE (SEPARATELY PERMITTED). VERIFY ROUGH-IN REQUIREMENTS WITH VENDOR.
4. WALL MOUNT FIXTURE AT +8'-0".
5. nLIGHT GATEWAY AND WIRELESS GATEWAY FOR SITE LIGHTS.

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

LIGHTING PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-E2.1

A12 LIGHTING PLAN
3/16" = 1'-0"

Drawn by: Plotted on: 6/25/2020 7:23:21 PM

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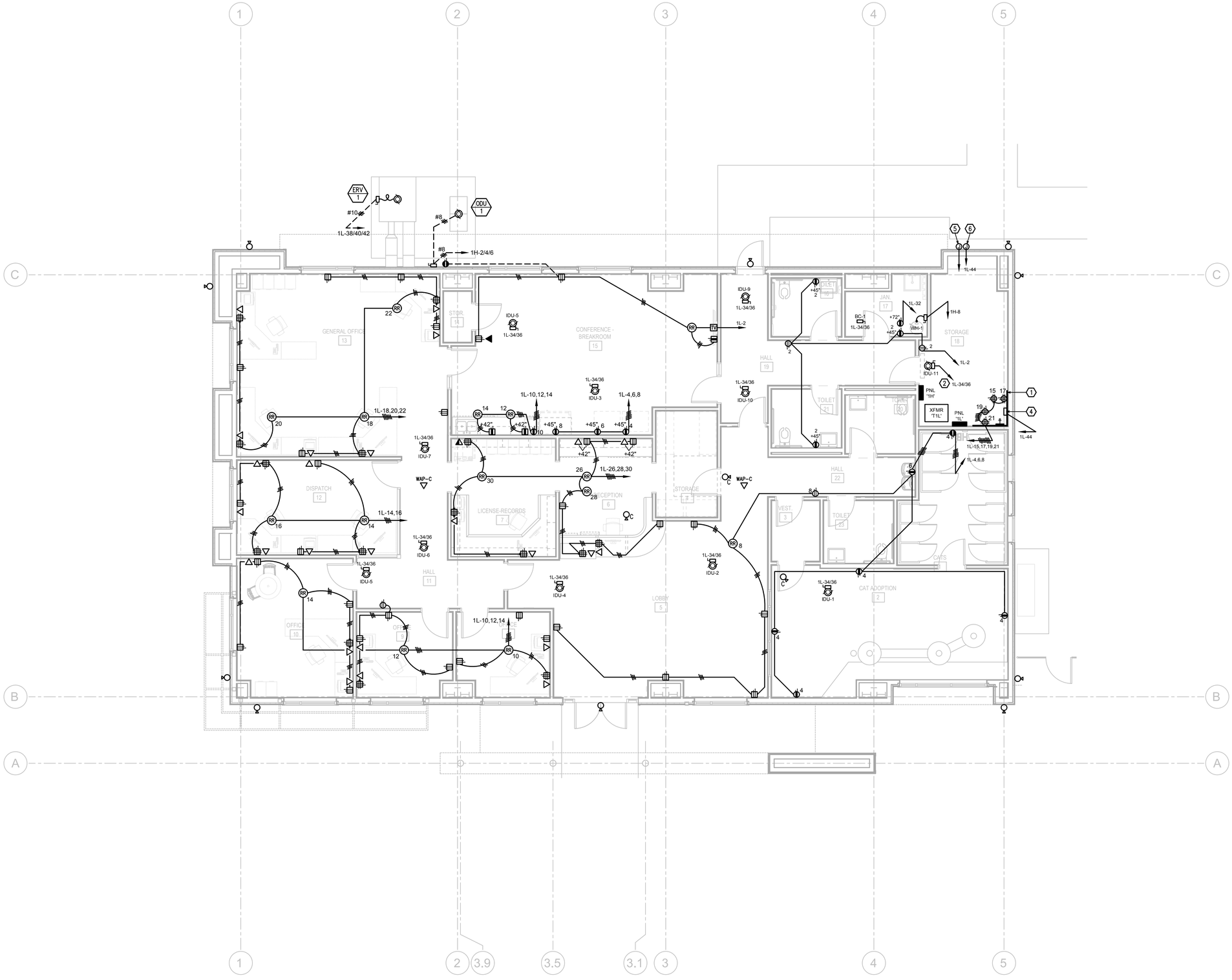

Keynotes

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2. CONNECT BRANCH CONTROLLER BC-1 AND INDOOR UNITS IDU-1 thru IDU-11 TO THIS CIRCUIT.
3. CONNECT BRANCH CONTROLLER BC-2 AND INDOOR UNITS IDU-12 thru IDU-15 TO THIS CIRCUIT.
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: ADMINISTRATION
Building No.: 1

POWER AND LOW VOLTAGE PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

1-E2.2

A12 POWER AND LOW VOLTAGE PLAN
3/16" = 1'-0"

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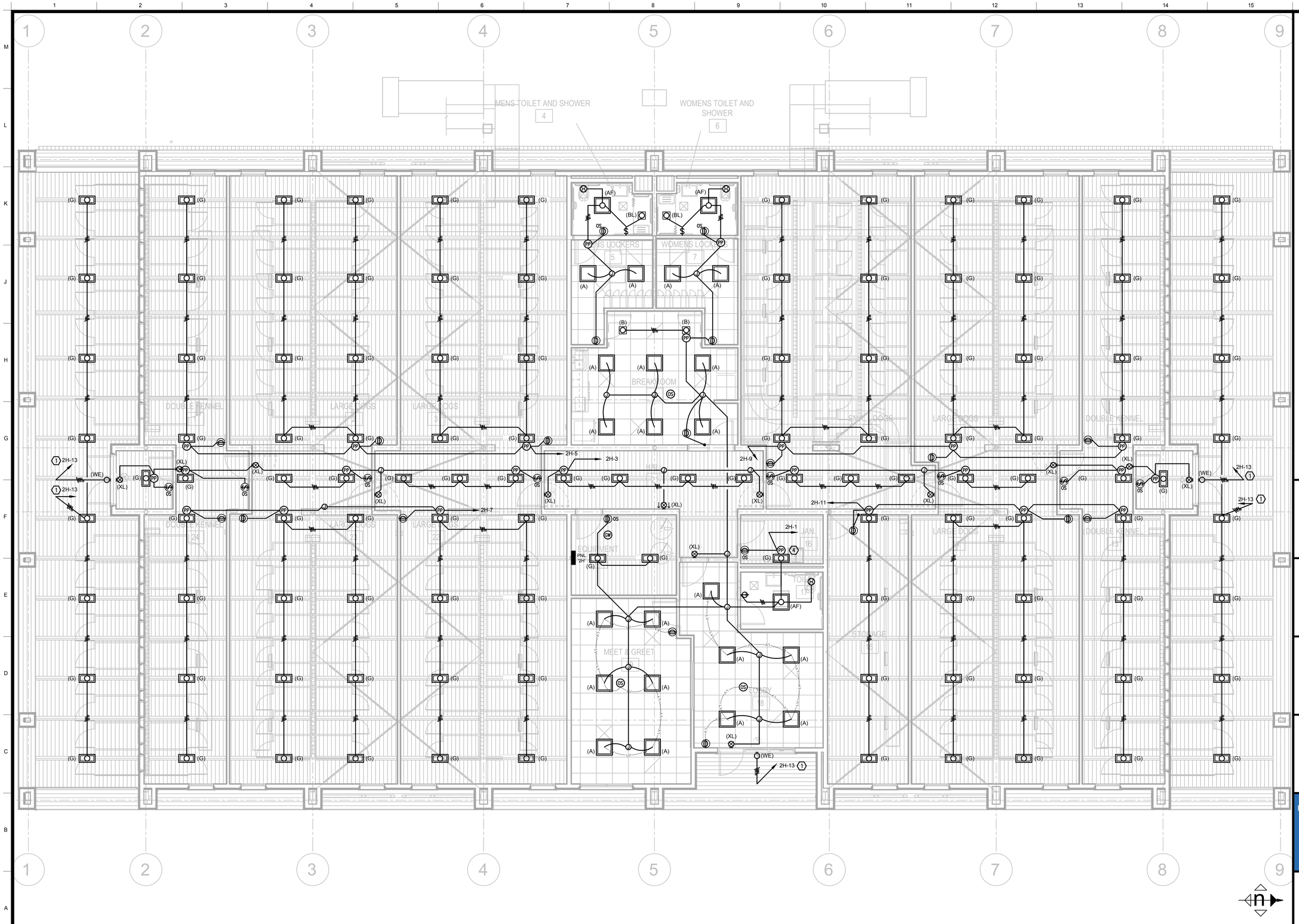

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS & MEET AND GREET
Building No.: 2

LIGHTING PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

2-E2.1

A12 LIGHTING PLAN
3/16" = 1'-0"

Drawn by: Plotted on: 6/25/2020 7:23:28 PM

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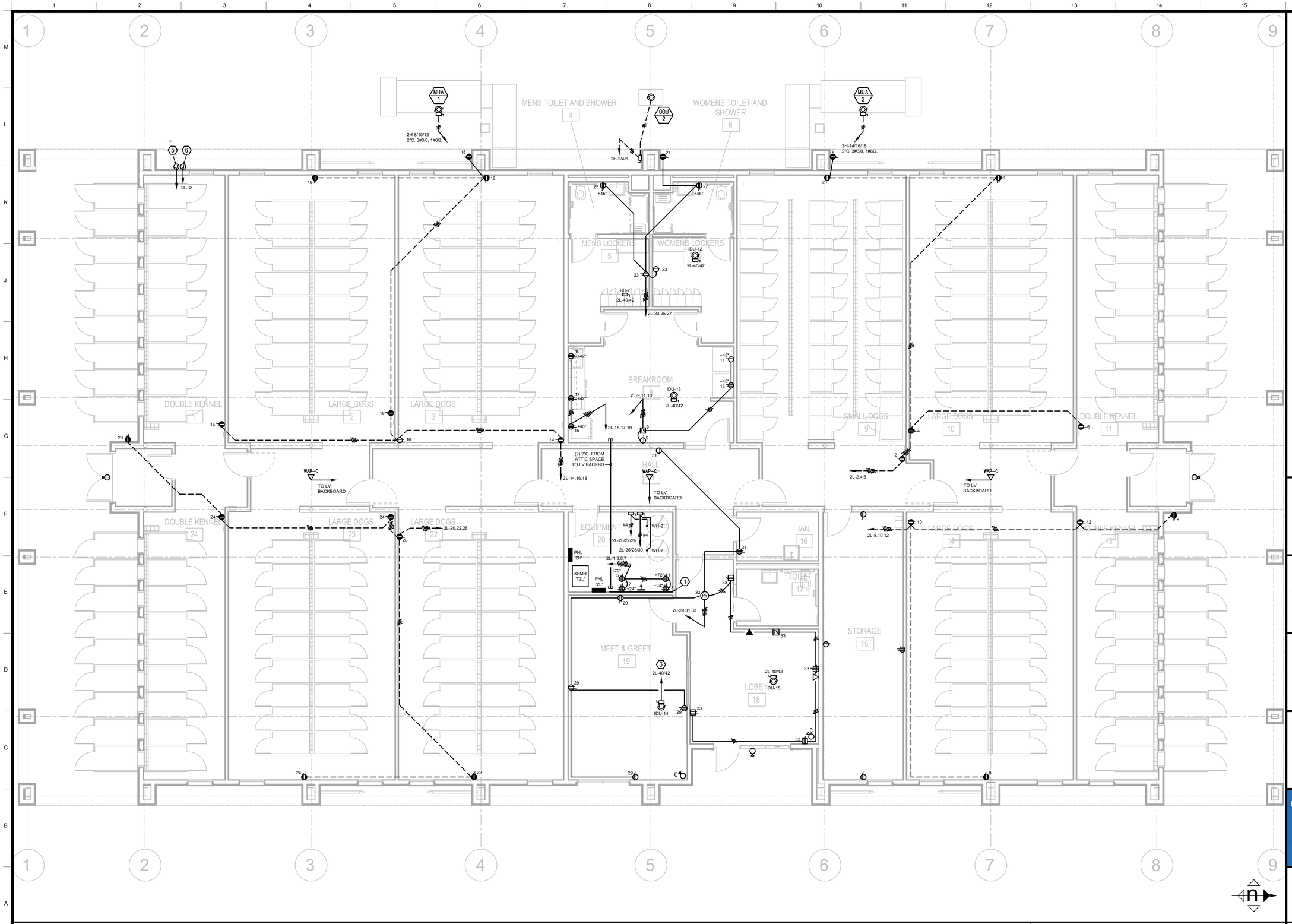

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: KENNELS & MEET AND GREET
Building No.: 2

POWER AND LOW VOLTAGE PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO 1856

Sheet No:

2-E2.2

A12 POWER AND LOW VOLTAGE PLAN
3/16" = 1'-0"

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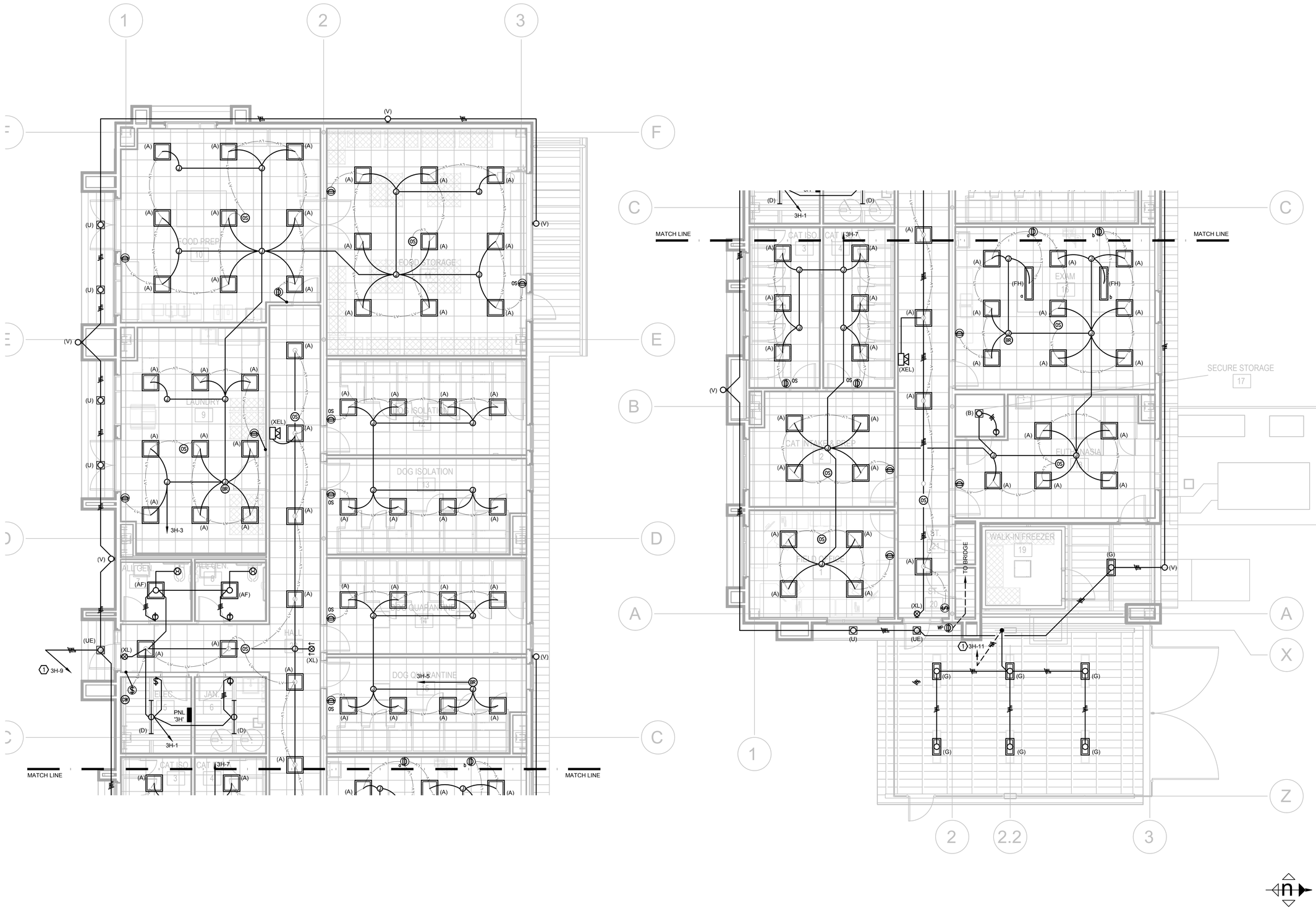

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

LIGHTING PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

3-E2.1

A12 LIGHTING PLAN
3/16" = 1'-0"

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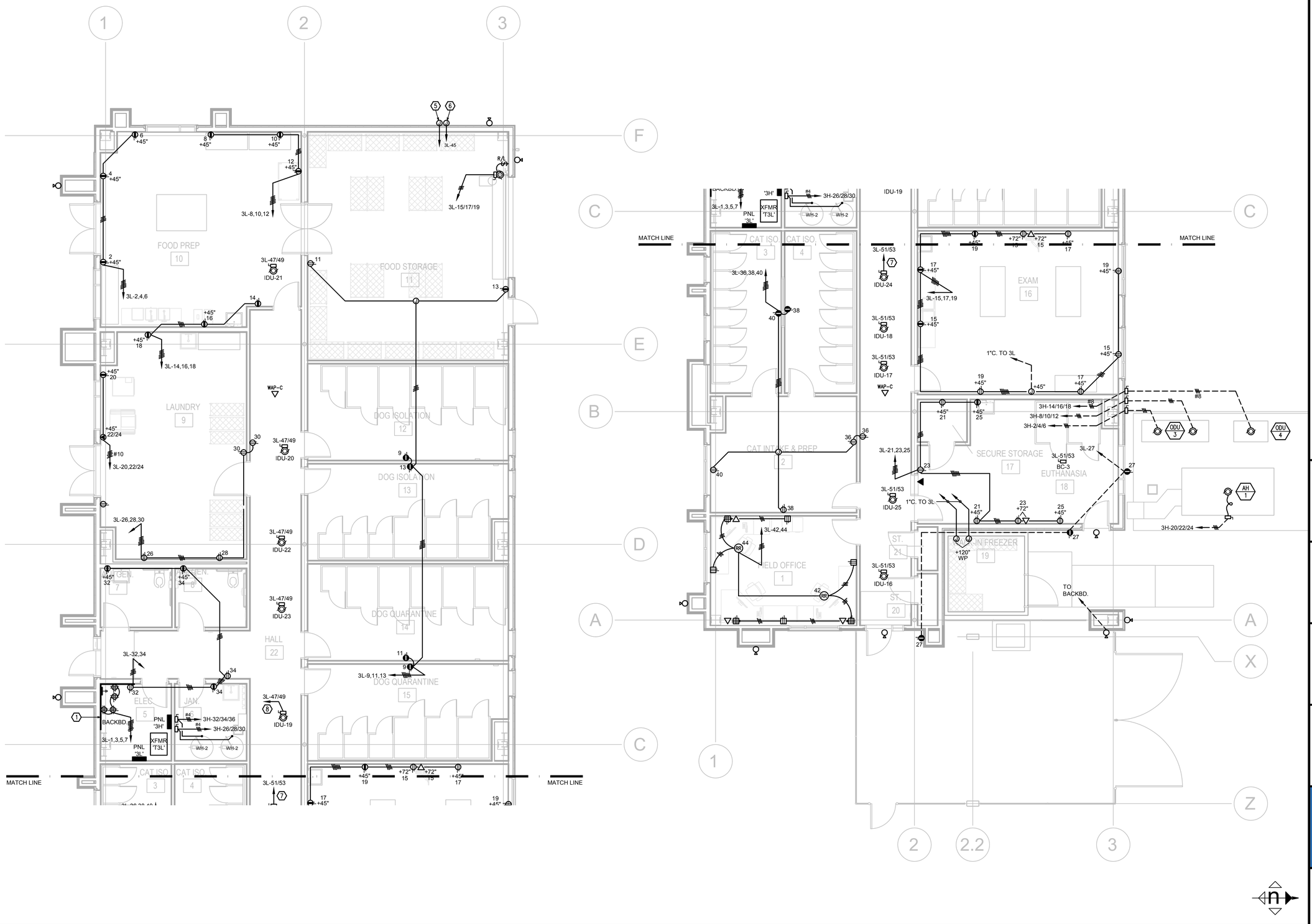

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name: INTAKE & FOOD PREP
Building No.: 3

POWER & LOW VOLTAGE PLAN

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO 1856

Sheet No:

3-E2.2

A12 POWER & LOW VOLTAGE PLAN
3/16" = 1'-0"

Drawn by:
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Electrical General Notes

1. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

   CALIFORNIA BUILDING CODE 2019
   CALIFORNIA ELECTRICAL CODE 2019
   NON RESIDENTIAL CEC ENERGY STANDARDS 2019

2. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
3. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
4. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
5. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
6. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
7. ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
8. 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 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.
9. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W PER CEC 110.26.
10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480V 3Ø 4W PER CEC 110.26.
11. PROVIDE A PLACARD ON EACH PANELBOARD INDICATING THE LOCATION AND IDENTIFICATION OF THE FEEDER SERVING THE PANEL PER CEC 408.4(B).
12. PROVIDE ILLUMINATED EMERGENCY POWER PER 2016 CFC, SECTION 1006.3. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
13. FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
14. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
15. 120V AND 277V BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. SHARING NEUTRALS IS NOT ACCEPTABLE.
16. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
17. ALL UNDERGROUND CONDUITS SHALL HAVE MINIMUM 24" COVER. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE RISERS OCCUR. WRAP GRS BELOW GRADE OR PROVIDE PVC COATED GRS. EXPOSED CONDUIT SHALL BE GRS TO 8'-0", THEN EMT ABOVE AS APPROPRIATE. UNDER NO CIRCUMSTANCE SHALL PVC CONDUIT BE INSTALLED ABOVE GRADE.
18. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
19. PROVIDE (4) 1" CONDUIT STUBS FROM EACH NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
20. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
21. PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
22. BEFORE AN OCCUPANCY PERMIT IS GRANTED FOR A NEWLY CONSTRUCTED BUILDING OR AREA, OR NEW LIGHTING SERVING A BUILDING, AREA OR SITE IS OPERATED FOR NORMAL USE, ALL INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING, AREA OR SITE SHALL BE CERTIFIED AS MEETING THE "ACCEPTANCE REQUIREMENTS" FOR CODE COMPLIANCE IN ACCORDANCE WITH SECTION 130.4. A "CERTIFICATE OF ACCEPTANCE" SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(a) OF PART 1 THRU 7(c).
23. 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.
24. THE CALIFORNIA STATE LICENSE BOARD (CSLB) "ZERO TOLERANCE POLICY" IN EFFECT FOR NON-COMPLIANT LABOR CODE 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 THE STATE OF CALIFORNIA.
25. 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.).
26. WHEN A FIRE ALARM SYSTEM IS PRESENT AND THE TOTAL COMBINED CFM FOR ALL HVAC UNITS IN A FIRE COMPARTMENT IS IN EXCESS OF 2000, DETECTION OF SMOKE IN ANY ONE OF THE DUCT DETECTORS SHALL SHUT OFF THE POWER SOURCES TO ALL THE UNITS PER FRESNO FIRE POLICY 407.4.
27. PROVIDE START-UP, TESTING, ADJUSTMENT, AND REPORTING OF BUILDING LIGHTING SYSTEM PER CGBSC 5.410.4.
28. ARC-FLASH WARNING SIGNS SHALL BE PROVIDED PER CEC SECTION 110.16.
29. FAULT CURRENT SHALL BE CALCULATED AND POSTED PRIOR TO FINAL INSPECTION PER CEC 110.24.

Electrical Symbols

	SYMBOL	DESCRIPTION	NOTES
LIGHTING		POLE WITH SINGLE AREA LUMINAIRE	
		POLE WITH DOUBLE AREA LUMINAIRES	
		POLE WITH POST TOP AREA LUMINAIRE	
	(A)	FIXTURE TYPE "A"	REFER TO FIXTURE SCHEDULE
		SURFACE CEILING LIGHT	
		RECESSED DOWN LIGHT	
		WALL LIGHT	
		FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT TO BATT PACKS
		EXIT SIGN, CEILING (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS
		EXIT SIGN, WALL (ARROWS INDICATE CHEVRONS)	PROVIDE UNSWITCHED HOT TO BATT PACKS
		DEDICATED EMERGENCY LIGHT	PROVIDE UNSWITCHED HOT TO BATT PACKS
	INV	INVERTER	
	$	SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE
	$3	3-WAY SWITCH AT +48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE
		DIMMER SWITCH, TO BE COMPATIBLE WITH CONTROLLED FIXTURES, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
		WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
	EF	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W/ SEPARATE EXHAUST FAN RELAY AT +48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1"C. TO ACCESSIBLE ATTIC SPACE
	$	DIGITAL ON/OFF SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"C. TO ACCESSIBLE ATTIC
		DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"C. TO ACCESSIBLE ATTIC
	OS	DIGITAL DIMMER SWITCH W/ INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"C. TO ACCESSIBLE ATTIC
	G	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING, CONTROLLER AT +48" AFF TO TOP OF BOX	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"C. TO ACCESSIBLE ATTIC
	OS	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT	nLIGHT SYSTEM #nCM PDT 10
	WOS	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	nLIGHT SYSTEM, ROUGH IN WITH 1G BOX & RING, 1"C. TO ACCESSIBLE ATTIC
	GW	DIGITAL GATEWAY	nLIGHT SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOX/OUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.
	BR	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (1) BRIDGE FOR EACH (6) nLIGHT ZONES. CONNECT BRIDGE POWER SUPPLY TO LOCAL LIGHTING CIRCUIT.
	W	WIRELESS GATEWAY FOR nLIGHT AIR 2	INTERFACE WITH nLIGHT SYSTEM GATEWAY
	PP	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	PP E	DIMMING POWER PACK W/ EMERGENCY CONTROL RELAY VERIFY 0-10V, 2- OR 3-WIRE, MLV, OR ELV BY FIXTURE	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	XP	DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	RR	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.
		TERMINAL CABINET	
DATACOM		DATA OUTLET (RJ-45 CAT6) WITH 2 JACK AT +18" AFF, U.O.N. BLUE JACKS & CABLE QTY. OF JACKS AS NOTED WHEN > 2	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	WAP-C	(2) WAP DATA JACKS (RJ-45 CAT6A) MOUNTED IN ATTIC SPACE	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END.
	WAP-W	(2) WAP DATA JACKS (RJ-45 CAT6A) AT +108" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
		WALL MOUNT VoIP OUTLET (RJ-45 CAT6) AT +45" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
		WALL MOUNT DATA/COMM OUTLET AT +45" AFF, U.O.N.	4-11/16 SQ. BOX, 1G RING, MODULAR PLATE, & 1 1/2"C. TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	MDF	"MAIN DISTRIBUTION FRAME"	
	IDF	"INTERMEDIATE DISTRIBUTION FRAME"	

	SYMBOL	DESCRIPTION	NOTES
POWER		SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
		POWER PANEL	REFER TO PANEL SCHEDULE
		JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
		DISCONNECT SWITCH, FUSIBLE	REFER TO MECH. PLANS & SPECS.
		MOTOR CONTROLLER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
		MOTOR	REFER TO MECH. PLANS & SPECS.
		EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
		SINGLE CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
		DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
		QUADPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED
		DUPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #X7899-W
		QUADPLEX GFI CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #X7899-W
		WEATHERPROOF, GFI OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN-USE TYPE COVER	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED LEVITON #X7899-W
		DUPLEX CONVENIENCE OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TDR20-S1W CODE COMPLIANT MARKING REQUIRED
		QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT +15" AFF TO BOTTOM OF BOX, U.O.N. ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, TAMPER-RESISTANT, NEMA GROUNDED, LEVITON #TDR20-W AND LEVITON #TDR20-S2W CODE COMPLIANT MARKING REQUIRED
		HEAVY DUTY POWER PEDESTAL	SEE DETAIL
		SPECIAL EQUIPMENT OUTLET AT +15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQ'TS W/ EQUIPMENT VENDOR
		2G FLOOR BOX WITH POWER FEED COVER	MAKE CONNECTION TO MODULAR FURNITURE SYSTEM
		12" CU GROUND BUS BAR	WITH #6 GREEN GROUND WIRE TO G.E.C.
		FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA F.A. RELAY.
PA		PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
		PUBLIC ADDRESS SPEAKER WALL MOUNTED, +120" U.O.N.	RUN 1"C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	WP	WP OUTDOOR PUBLIC ADDRESS SPEAKER, WALL MOUNTED, +120" U.O.N.	RUN 1"C. TO ACCESSIBLE ATTIC SPACE AND HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
CAMERAS	C	SURVEILLANCE (CCTV) CAMERA PROVISION, WALL MOUNTED. VERIFY HEIGHTS AT EACH LOCATION. C=CEILING MOUNTED.	INTERIOR: 1G J-BOX, 1G RING, MODULAR PLATE, 3/4"C. TO ACCESSIBLE ATTIC SPACE. EXTERIOR: 1G FLUSH BELL BOX, MODULAR PLATE, 3/4"C. TO ACCESSIBLE ATTIC SPACE. PROVIDE (1) CAT6 CABLE AND DATA JACK TO EACH CAMERA PROVISION. VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
A/V	TV	RECESSED TV BOX WITH POWER OUTLET, (2) DATA JACKS, HDMI AND CATV JACKS. VERIFY HEIGHT/LOCATION PRIOR TO ROUGH-IN.	MAKE POWER CONNECTION AND PROVIDE 1 1/2"C. STUB TO EXPOSED CABLE SPACE NEAR ROOF. VERIFY HEIGHTS W/ ARCH.
	AV	A/V INPUT HDMI/VGA/3.5MM AUDIO/USB JACK WALL PLATE AT +18" AFF	2G BOX, 1G RING, (2) 1 1/4"C. TO ATTIC SPACE. INSTALL CABLES FROM STATION TO TV.
GENERAL		DEVICES TO BE REMOVED	
		EXISTING CONDUIT/WIRING TO BE DEMOLISHED	
		EXISTING DEVICES	
		EXISTING CONDUIT/WIRING	
		WIRING IN CONDUIT, BELOW GRADE	3/4" CONDUIT MIN.
		WIRING IN CONDUIT, IN WALL OR CEILING	3/4" CONDUIT MIN.
	LV	LOW VOLTAGE WIRING IN ATTIC SPACE	TYPE PER EQUIPMENT MANUFACTURER
		CONDUIT RISER	3/4" CONDUIT MIN.
		FLEXIBLE CONDUIT	3/4" CONDUIT MIN.
		CONDUIT STUB AND CAP	3/4" CONDUIT MIN.
		CROSS HATCHES INDICATE NUMBER OF #12 AWG. CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO. WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG. PROVIDE GROUND PER CEC 250. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.	3/4" CONDUIT MIN.
		CURVED CROSS HATCHES INDICATE #14 AWG PURPLE & GRAY CONDUCTORS FOR DIMMING CONTROL.	3/4" CONDUIT MIN.
	A–15	HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4" CONDUIT MIN.
	(E)	"EXISTING"	
	U.O.N.	"UNLESS OTHERWISE NOTED"	
	WP	"WEATHERPROOF" / NEMA 3R	
	GFI	"GROUND FAULT INTERRUPTER"	

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

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

ELECTRICAL NOTES AND SYMBOLS

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

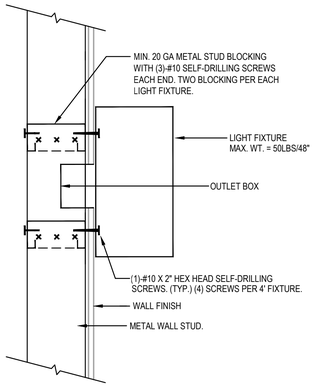
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

E10.11

TYPE	MANUFACTURER	CATALOG NO.	LAMPING	WATTS	VOLTS	MOUNTING	REMARK
A	LITHONIA	EPANL 2x2 4800LMHE 80CRI 35K MIN1 NLIGHT MVOLT	LED	36.0	277	RECESSED	
AF	LITHONIA	EPANL 2x2 4800LMHE 80CRI 35K MIN1 NLIGHT MVOLT SMKSH	LED	36.0	277	SURFACE	
B	LITHONIA	LDN6 35/30 L06AR LSS MVOLT EZ10	LED	34.8	277	RECESSED	
BL	LITHONIA	LDN6 35/15 L06AR LSS MVOLT EZ10	LED	17.5	277	RECESSED	
C	LITHONIA	WL4 30L GZ10 LP835	LED	28.2	277	SURFACE	
D	LITHONIA	ZL1D L48 SMR 3000LM FST MVOLT 35K 80CRI WH HC36	LED	30.0	277	CHAIN	
F	LITHONIA	EPANL 1x4 4000LMHE 80CRI 35K MIN10 NLIGHT MVOLT	LED	31.0	277	RECESSED	
FH	LITHONIA	EPANL 1x4 6000LMHE 80CRI 35K MIN10 NLIGHT MVOLT	LED	43.0	277	RECESSED	
G	LITHONIA	FEM L24 6000LM LPAFL MD MVOLT GZ10 35K 80CRI	LED	39.2	277	SURFACE	
H	WINONA	WFW5803 LWP2A 30K MVOLT FAB1	LED	12.3	277	WALL	
J	WINONA	WFP5812 24DIA CSM LDP1A 30K MVOLT RD FAB1 BN	LED	63.8	277	PENDANT	
R2	LITHONIA	RSX3 LED P1 40K R2 MVOLT SPA NLTAIR2 PIRHN DNAXD W/ POLE	LED	194.0	277	20' POLE	WIRELESS CONTROL FROM ADMIN BUILDING 1
S	ANP LIGHTING	M010LDD W 27K RTCW E3 49 UNV	LED	12.0	277	WALL	MOUNT 18" ABOVE TOP OF LETTERING AT 48" CENTERS
T	LUMINAIRE	AEL 24IN MIN10 20W 40K MVOLT DP SVH	LED	20.0	277	WALL +10'-0"	ORIENT FIXTURE "UP" TO ILLUMINATE CEILING
TE	LUMINAIRE	AEL 24IN MIN10 20W 40K MVOLT DP SVH EMB310T20	LED	20.0	277	WALL +10'-0"	ORIENT FIXTURE "UP" TO ILLUMINATE CEILING
U	GOTHAM	EVO4LW 40/15 AR LSS MVOLT EZ10	LED	14.7	277	RECESSED	
UE	GOTHAM	EVO4LW 40/15 AR LSS MVOLT EZ10 E10WCPR	LED	14.7	277	RECESSED	
V	LUMINAIRE	ARV13 NRV MIN10 25W 40K MVOLT OP GRY	LED	25.0	277	WALL	
VE	LUMINAIRE	ARV13 NRV MIN10 25W 40K MVOLT OP GRY EMB310T20	LED	25.0	277	WALL	
WE	LUMINAIRE	SWP610 MIN10 15W 40K MVOLT OP GRY EMB20R	LED	15.0	277	WALL	MOUNT REMOTE BATTERY AT BUILDING INTERIOR
X	LITHONIA	LHQM LED R HO R0	LED	4.3	277	CEILING/WALL	EXIT SIGN WITH BATTERY PACK
XL	LITHONIA	LHQM LED R HO	LED	4.3	277	CEILING/WALL	EXIT SIGN WITH EMERGENCY LIGHTS AND BATTERY PACK

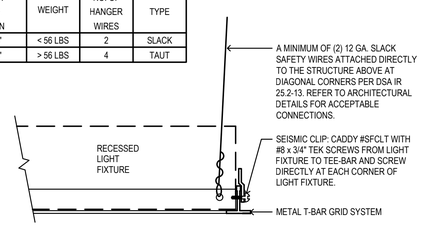
F1 Light Fixture Schedule
Scale: None



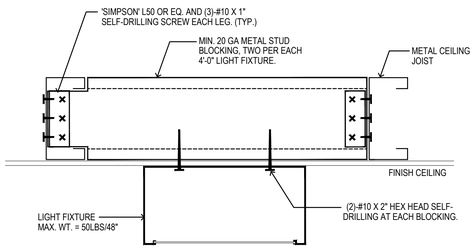
NOTE:
BOTTOM OF FIXTURE TO BE MIN. OF 80" AFF IF PROTRUDE MORE THAN 4" FROM FACE OF WALL (CBC 11B-307.2)

A1 Fixture Wall Mounting Detail
Scale: None

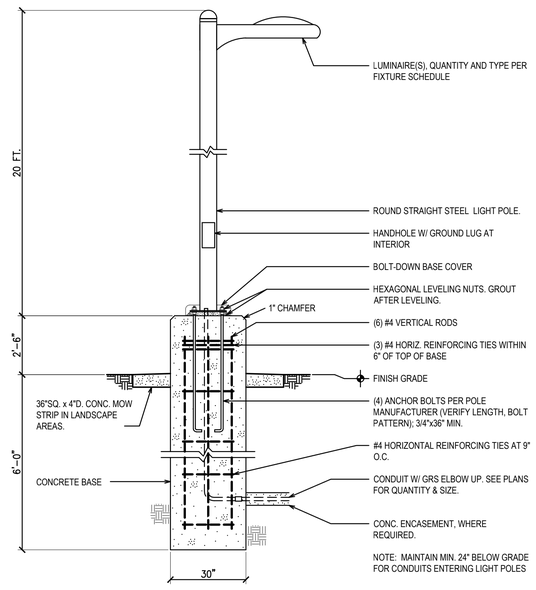
HEAVY DUTY GRID SYSTEM			
MAX. LIGHT FIXTURE DIMENSION	WEIGHT	NO. OF HANGER WIRES	TYPE
< 24" x 48"	< 56 LBS	2	SLACK
> 24" x 48"	> 56 LBS	4	TAUT



C4 Fixture T-Bar Mounting Detail
Scale: None



A4 Fixture Surface Mounting Detail
Scale: None



A4 Vehicle Area Pole Light Detail
Scale: None

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Project
ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:
Building Name:
Building No.:

LIGHTING SCHEDULES AND DETAILS

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:
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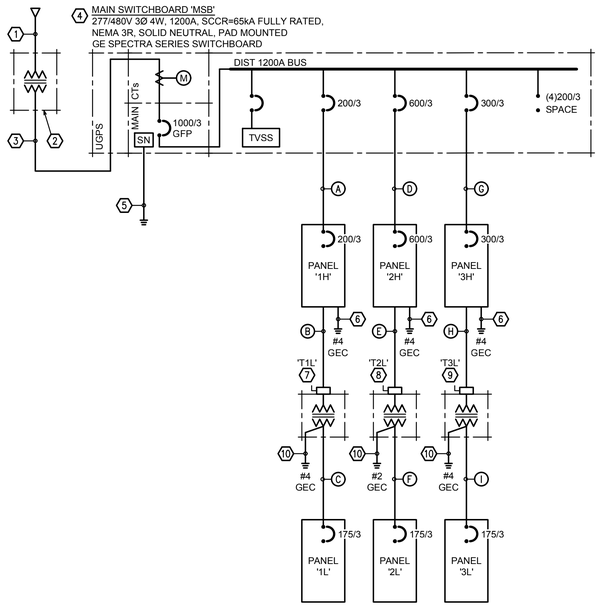


LINE DIAGRAM KEY NOTES

1. 4"C. UTILITY PRIMARY PER RULE 16 DOCS.
2. UTILITY TRANSFORMER & CONCRETE PAD PER RULE 16 DOCS.
3. (4) 5"C. UTILITY SECONDARY PER PG&E PER RULE 16 DOCS.
4. PROVIDE CONCRETE PAD PER DETAIL A9/E10.13.
5. GROUND SERVICE PER DETAIL A1/E10.13.
6. GROUNDING ELECTRODE CONDUCTOR TO UFER, STRUCTURAL STEEL, METAL WATER PIPE, AND FIRE SPRINKLER RISER.
7. TRANSFORMER 'T1H'
   480/208/120V 3Ø 4W, 45kVA, AL, NEMA 1, 80°C RISE, PAD MOUNTED. GE TYPE QL.
8. TRANSFORMER 'T2H'
   480/208/120V 3Ø 4W, 45kVA, AL, NEMA 1, 80°C RISE, PAD MOUNTED. GE TYPE QL.
9. TRANSFORMER 'T3H'
   480/208/120V 3Ø 4W, 45kVA, AL, NEMA 1, 80°C RISE, PAD MOUNTED. GE TYPE QL.
10. GROUND TRANSFORMER PER DETAIL A6/E10.13.

FEEDERS

A. 2"C. 4#3/0, 1#6G.
B. 1-1/4"C. 3#4, 1#8G
C. 2"C. 4#2/0, 1#4G.
D. (2) SETS - 3-1/2"C. 4#350kCMIL, 1#1/0G.
E. 1-1/4"C. 3#4, 1#8G.
F. 2"C. 4#2/0, 1#4G.
G. 3-1/2"C. 4#350kCMIL, 1#2G.
H. 1-1/4"C. 3#4, 1#8G.
I. 2"C. 4#2/0, 1#4G.

E1 Power Single Line Diagram

Scale: None

No.	Feeder Origin	Feeder Destination	Potential at Origin (P_i) (Volts)	System	Design Current (Amps)	Raceway Type	Sets of Cond.	Conductor Trade Size	Conductor Cross-Sectional Area (CM)	Conductor Material	DC Conductor Material Constant (K)	Q	Distance (ft)	Voltage Drop (VD) (Volts)	Potential at Load (P_l) (Volts)	Percent Voltage Drop (%VD)
1	MSB	Panel 1H	480	AC 3-Phase	160	PVC	1	3/0	167800	CU	12.9	1.0052	40	0.86	479.14	0.18
2	MSB	Panel 2H	480	AC 3-Phase	480	PVC	2	350 kCMIL	700000	CU	12.9	1.0354	170	2.70	477.30	0.56
3	MSB	Panel 3H	480	AC 3-Phase	240	PVC	1	350 kCMIL	350000	CU	12.9	1.0354	240	3.81	476.19	0.79
4	Xfmr T1L	Panel 1L	208	AC 3-Phase	120	Steel	1	2/0	133100	CU	12.9	1.0341	10	0.21	207.79	0.10
5	Xfmr T1L	Panel 2L	208	AC 3-Phase	120	Steel	1	2/0	133100	CU	12.9	1.0341	10	0.21	207.79	0.10
6	Xfmr T1L	Panel 3L	208	AC 3-Phase	120	Steel	1	2/0	133100	CU	12.9	1.0341	10	0.21	207.79	0.10
8	20A 120V Branch Ckt	Max #12 Dist. 57 ft.	120	AC 1-Phase	16	Steel	1	12	6530	CU	12.9	1.0000	57	3.60	116.40	3.00
9	20A 120V Branch Ckt	Max #10 Dist. 91 ft.	120	AC 1-Phase	16	Steel	1	10	10380	CU	12.9	1.0000	91	3.62	116.38	3.02
10	20A 120V Branch Ckt	Max #8 Dist. 144 ft.	120	AC 1-Phase	16	Steel	1	8	16510	CU	12.9	1.0000	144	3.60	116.40	3.00

Formulae

VD (three phase) = √3 x K x Q x I x D / CM

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

VD (DC) = 2 x K x I x D / CM

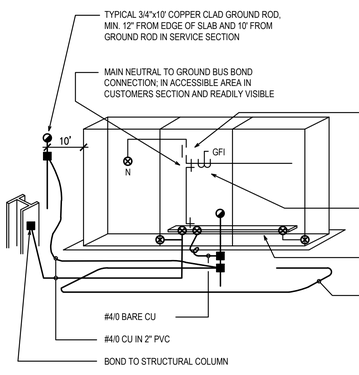
%VD = VD / P_i x 100

Definitions

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

K9 Voltage Drop Calculations

Scale: None



UTILITY DISCONNECT LINK, READILY ACCESSIBLE. MARK

WARNING

"REMOVAL OF THIS LINK REMOVES CUSTOMER GROUNDING TO NEUTRAL OF SUPPLY TRANSFORMER"

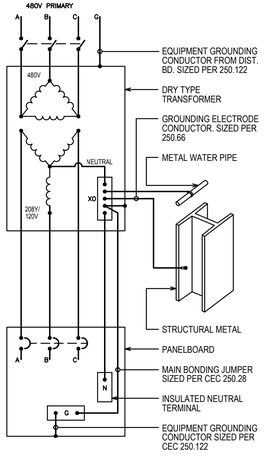
LEGEND

- GROUND ROD
- GROUND CLAMP
- EXOTHERMIC WELD
- COMPRESSION UG CONNECTION BOLTED TO GROUND BUS. MIN. 3/8" 2-HOLE W/ BELLVILLE COMPRESSION WASHER CADMIUM PLATED

NOTE:
SERVICE GROUND SIZE AS SHOWN OR OTHERWISE AS PER CEC 250. ALL SERVICE GROUNDS TO BE COPPER.

A1 Service Grounding Detail

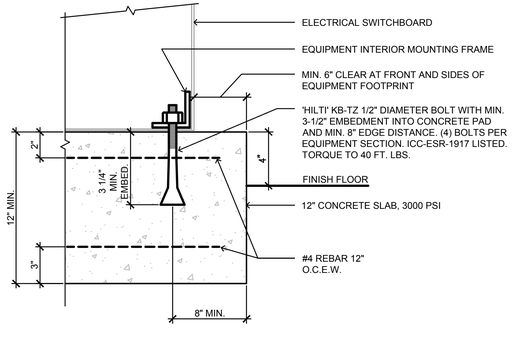
Scale: None



A GROUNDING ARRANGEMENT FOR A SEPARATELY DERIVED SYSTEM WHERE THE GROUNDING ELECTRODE CONDUCTOR CONNECTION IS MADE AT THE TRANSFORMER.

A6 Transformer Grounding Detail

Scale: None



A9 Concrete Equipment Pad Detail

Scale: None

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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

POWER SCHEDULES AND DETAILS

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO

Sheet No:

E10.13

PANEL "1H" SCHEDULE

277/480V 3Φ 4W 65kAIC — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	LIGHTS - STORAGE, TOILET, HALL, JAN.	15	1	461	A	6600	40	3	OUTDOOR UNIT ODU-1	2
3	LIGHTS - CATS, LOBBY, RECEPTION, TOILET, HALL	15	1	1115	B	6600	--	--	-----	4
5	LIGHTS - CONFERENCE, OFFICES, HALL	15	1	1278	C	6600	--	--	-----	6
7	LIGHTS - OUTER LIGHTING	15	1	323	A	5000	25	1	WATER HEATER WH-1	8
9	LIGHTS - OUTER LIGHTING	15	1	180	B				SPACE ONLY	10
11	SPARE	15	1		C				SPACE ONLY	12
13	SPACE ONLY				A				SPACE ONLY	14
15	SPACE ONLY				B				SPACE ONLY	16
17	SPACE ONLY				C				SPACE ONLY	18
19	SPACE ONLY				A				SPACE ONLY	20
21	SPACE ONLY				B				SPACE ONLY	22
23	SPACE ONLY				C				SPACE ONLY	24
25	SPACE ONLY				A	9530	70	3	TRANSFORMER T1L / PANEL 1L	26
27	SPACE ONLY				B	10300	--	--	-----	28
29	SPACE ONLY				C	9760	--	--	-----	30

LOAD SUMMARY: Φ A 21914 VA; Φ B 18195 VA; Φ C 17638 VA
CONNECTED LOAD: 57.7 kVA
MAX CURRENT: 79 A
BUSING: 200A CU
MAIN: 200A

PANEL "1L" SCHEDULE

120/208V 3Φ 4W 50kAIC — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	OUTLETS - BREAK ROOM	20	1	720	A	900	20	1	OUTLETS - SUPPORT AREAS	2
3	OUTLETS - BREAK ROOM	20	1	1000	B	900	20	1	OUTLETS - CAT AREA	4
5	OUTLETS - BREAK ROOM	20	1	1000	C	500	20	1	OUTLETS - DRINKING FOUNTAIN	6
7	OUTLETS - BREAK ROOM	20	1	1000	A	1080	20	1	OUTLETS - LOBBY AREA	8
9	OUTLETS - BREAK ROOM	20	1	1000	B	900	20	1	OUTLETS - OFFICE 8	10
11	OUTLETS - BREAK ROOM	20	1	1000	C	1080	20	1	OUTLETS - OFFICE 9	12
13	OUTLETS - BREAK ROOM	20	1	1000	A	1080	20	1	OUTLETS - OFFICE 10	14
15	OUTLETS - ELECTRONICS BACKBOARD	20	1	500	B	720	20	1	OUTLETS - DISPATCH	16
17	OUTLETS - ELECTRONICS BACKBOARD	20	1	500	C	900	20	1	OUTLETS - DISPATCH	18
19	OUTLETS - ELECTRONICS BACKBOARD	20	1	500	A	540	20	1	OUTLETS - GENERAL OFFICE	20
21	OUTLETS - ELECTRONICS BACKBOARD	20	1	500	B	900	20	1	OUTLETS - GENERAL OFFICE	22
23	SPARE	20	1		C	900	20	1	OUTLETS - GENERAL OFFICE	24
25	SPARE	20	1		A	360	20	1	OUTLETS - RECEPTION	26
27	SPARE	20	1		B	1080	20	1	OUTLETS - RECEPTION	28
29	SPARE	20	1		C	1080	20	1	OUTLETS - LICENSE RECORDS	30
31	SPARE	20	1		A	150	15	1	CIRCULATION WATER PUMP CP-1	32
33	SPARE	20	1		B	1100	20	2	INDOOR UNITS IDU-1 thru IDU-11	34
35	SPARE	20	1		C	1100	--	--	-----	36
37	SPARE	20	1		A	1700	20	3	ENERGY RECOVERY VENTILATOR ERV-1	38
39	SPARE	20	1		B	1700	--	--	-----	40
41	SPARE	20	1		C	1700	--	--	-----	42
43	SPACE ONLY				A	500	15	1	FIRE SPRINKLER MONITOR PANEL & BELL *	44
45	SPACE ONLY				B				SPACE ONLY	46
47	SPACE ONLY				C				SPACE ONLY	48
49	SPACE ONLY				A				SPACE ONLY	50
51	SPACE ONLY				B				SPACE ONLY	52
53	SPACE ONLY				C				SPACE ONLY	54

LOAD SUMMARY: Φ A 9530 VA; Φ B 10300 VA; Φ C 9760 VA
CONNECTED LOAD: 29.6 kVA
MAX CURRENT: 86 A
BUSING: 200A CU
MAIN: 150A
NOTE: * PROVIDE RED LOCK-ON DEVICE ON BREAKER

PANEL "2H" SCHEDULE

277/480V 3Φ 4W 65kAIC — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	LIGHTS - LOBBY, LOCKERS, EQUIP.	15	1	1098	A	2600	15	3	OUTDOOR UNIT ODU-2	2
3	LIGHTS - HALL	15	1	774	B	2600	--	--	-----	4
5	LIGHTS - LARGE DOGS	15	1	860	C	2600	--	--	-----	6
7	LIGHTS - LARGE DOGS	15	1	860	A	50000	200	3	MAKE-UP AIR UNIT MUA-1	8
9	LIGHTS - SMALL DOGS	15	1	860	B	50000	--	--	-----	10
11	LIGHTS - LARGE DOGS, DOUBLE KENNEL, STRG.	15	1	688	C	50000	--	--	-----	12
13	LIGHTS - OUTER LIGHTING	15	1	733	A	50000	200	3	MAKE-UP AIR UNIT MUA-2	14
15	POLE LIGHTS - WEST FIRE ACCESS	15	1	388	B	50000	--	--	-----	16
17	SPARE	15	1		C	50000	--	--	-----	18
19	SPACE ONLY				A	18000	70	3	WATER HEATER WH-2	20
21	SPACE ONLY				B	18000	--	--	-----	22
23	SPACE ONLY				C	18000	--	--	-----	24
25	SPACE ONLY				A	18000	70	3	WATER HEATER WH-2	26
27	SPACE ONLY				B	18000	--	--	-----	28
29	SPACE ONLY				C	18000	--	--	-----	30
31	SPACE ONLY				A				SPACE ONLY	32
33	SPACE ONLY				B				SPACE ONLY	34
35	SPACE ONLY				C				SPACE ONLY	36
37	TRANSFORMER T2L / PANEL 2L	70	3	4130	A				SPACE ONLY	38
39	-----	--	--	4910	B				SPACE ONLY	40
41	-----	--	--	4270	C				SPACE ONLY	42

LOAD SUMMARY: Φ A 145421 VA; Φ B 145532 VA; Φ C 144418 VA
CONNECTED LOAD: 435.4 kVA
MAX CURRENT: 525 A
BUSING: 600A CU
MAIN: 600A

PANEL "2L" SCHEDULE

120/208V 3Φ 4W 50kAIC — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	OUTLETS - EQUIPMENT 20	20	1	360	A	360	20	1	OUTLETS - KENNELS 9,10,11	2
3	OUTLETS - EQUIPMENT 20	20	1	360	B	180	20	1	OUTLETS - KENNELS 9,10,11	4
5	OUTLETS - EQUIPMENT 20	20	1	360	C	360	20	1	OUTLETS - KENNELS 9,10,11	6
7	OUTLETS - EQUIPMENT 20	20	1	360	A	360	20	1	OUTLETS - KENNELS 13,14, N. PATIO	8
9	OUTLETS - BREAK ROOM	20	1	1000	B	180	20	1	OUTLETS - KENNELS 13,14, N. PATIO	10
11	OUTLETS - BREAK ROOM	20	1	1000	C	180	20	1	OUTLETS - KENNELS 13,14, N. PATIO	12
13	OUTLETS - BREAK ROOM	20	1	1000	A	360	20	1	OUTLETS - KENNELS 1,2,3	14
15	OUTLETS - BREAK ROOM	20	1	1000	B	360	20	1	OUTLETS - KENNELS 1,2,3	16
17	OUTLETS - BREAK ROOM	20	1	1000	C	360	20	1	OUTLETS - KENNELS 1,2,3	18
19	OUTLETS - BREAK ROOM	20	1	1000	A		20	1	OUTLETS	20
21	OUTLETS - BREAK ROOM	20	1	1000	B		20	1	OUTLETS	22
23	OUTLETS - LOCKER ROOMS	20	1	360	C		20	1	OUTLETS	24
25	OUTLETS - MEN'S	20	1	180	A		20	1	SPARE	26
27	OUTLETS - WOMEN'S	20	1	180	B		20	1	SPARE	28
29	OUTLETS - MEET AND GREET	20	1		C		20	1	SPARE	30
31	OUTLETS - JANITOR, HALLWAY	20	1		A		20	1	SPARE	32
33	OUTLETS - LOBBY	20	1		B		20	1	SPARE	34
35	SPARE	20	1		C		20	1	SPARE	36
37	SPARE	20	1		A	150	15	1	FIRE SPRINKLER RISER BELL *	38
39	SPARE	20	1		B	650	20	2	INDOOR UNITS IDU-12 thru IDU-15	40
41	SPARE	20	1		C	650	--	--	-----	42

LOAD SUMMARY: Φ A 4130 VA; Φ B 4910 VA; Φ C 4270 VA
CONNECTED LOAD: 13.3 kVA
MAX CURRENT: 41 A
BUSING: 200A CU
MAIN: 150A
NOTE: * PROVIDE RED LOCK-ON DEVICE ON BREAKER

PANEL "3H" SCHEDULE

277/480V 3Φ 4W 65kAIC — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	LIGHTS - RR, JAN., ELEC. HALL	15	1	550	A	3500	20	3	OUTDOOR UNIT ODU/3	2
3	LIGHTS - LAUNDRY, FOOD PREP, STORAGE	15	1	972	B	3500	--	--	-----	4
5	LIGHTS - DOG ISOLATION, QUARANTINE	15	1	1196	C	3500	--	--	-----	6
7	LIGHTS - CAT ISOLATION, EXAM, EUTHANASIA	15	1	1161	A	3500	20	3	OUTDOOR UNIT ODU/3	8
9	LIGHTS - OUTER LIGHTING	15	1	288	B	3500	--	--	-----	10
11	LIGHTS - OUTER LIGHTING	15	1	236	C	3500	--	--	-----	12
13	POLE LIGHT - NORTH FIRE ACCESS	15	1	194	A	5250	35	3	OUTDOOR UNIT ODU/4	14
15	SPARE	15	1		B	5250	--	--	-----	16
17	SPARE	15	1		C	5250	--	--	-----	18
19	SPACE ONLY				A	2500	20	3	AIR HANDLER AH/1	20
21	SPACE ONLY				B	2500	--	--	-----	22
23	SPACE ONLY				C	2500	--	--	-----	24
25	SPACE ONLY				A	18000	70	3	WATER HEATER WH-2	26
27	SPACE ONLY				B	18000	--	--	-----	28
29	SPACE ONLY				C	18000	--	--	-----	30
31	SPACE ONLY				A	18000	70	3	WATER HEATER WH-2	32
33	SPACE ONLY				B	18000	--	--	-----	34
35	SPACE ONLY				C	18000	--	--	-----	36
37	SPACE ONLY				A	5930	70	3	TRANSFORMER 'T3L' / PANEL '3L'	38
39	SPACE ONLY				B	7130	--	--	-----	40
41	SPACE ONLY				C	7910	--	--	-----	42

LOAD SUMMARY: Φ A 58585 VA; Φ B 59140 VA; Φ C 60092 VA
CONNECTED LOAD: 177.8 kVA
MAX CURRENT: 217 A
BUSING: 400A CU
MAIN: 300A

PANEL "3L" SCHEDULE

120/208V 3Φ 4W 50kAIC — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	OUTLETS - ELEC RM.	20	1	500	A	180	20	1	OUTLETS - FOOD PREP	2
3	OUTLETS - ELEC RM.	20	1	500	B	180	20	1	OUTLETS - FOOD PREP	4
5	OUTLETS - ELEC RM.	20	1	500	C	180	20	1	OUTLETS - FOOD PREP	6
7	OUTLETS - ELEC RM.	20	1	500	A	180	20	1	OUTLETS - FOOD PREP	8
9	OUTLETS - ISO 12, QUAR 15	20	1	360	B	180	20	1	OUTLETS - FOOD PREP	10
11	OUTLETS - QUAR 14, FOOD STOR	20	1	360	C	180	20	1	OUTLETS - FOOD PREP	12
13	OUTLETS - ISO 13, FOOD STOR	20	1	360	A	180	20	1	OUTLETS - FOOD PREP	14
15	ROLL UP DOOR - FOOD STOR	15	3	300	B	180	20	1	OUTLETS - FOOD PREP	16
17	-----	--	--	300	C	180	20	1	OUTLETS - FOOD PREP	18
19	-----	--	--	300	A	1000	20	1	OUTLET - WASHER	20
21	OUTLETS - EUTHANASIA	20	1	360	B	2500	30	2	OUTLET - DRYER	22
23	OUTLETS - EUTHANASIA	20	1	360	C	2500	--	--	-----	24
25	OUTLETS - EUTHANASIA	20	1	360	A	180	20	1	OUTLETS - LAUNDRY	26
27	OUTLETS - EAST EXTERIOR	20	1	540	B	180	20	1	OUTLETS - LAUNDRY	28
29	SPARE	20	1		C	360	20	1	OUTLETS - LAUNDRY	30
31	SPARE	20	1		A	360	20	1	OUTLETS - ELEC, RR	32
33	SPARE	20	1		B	540	20	1	OUTLETS - JAN, RR	34
35	SPARE	20	1		C	360	20	1	OUTLETS - CATS	36
37	SPARE	20	1		A	360	20	1	OUTLETS - CATS	38
39	SPARE	20	1		B	360	20	1	OUTLETS - CATS	40
41	SPARE	20	1		C	1080	20	1	OUTLETS - OFFICE	42
43	SPARE	20	1		A	720	20	1	OUTLETS - OFFICE	44
45	FIRE SPRINKLER RISER BELL *	15	1	150	B		20	1	SPACE ONLY	46
47	WEST INDOOR UNITS	15	2	750	C		20	1	SPACE ONLY	48
49	-----	--	--	750	A		20	1	SPACE ONLY	50
51	EAST INDOOR UNITS & BRANCH CONTROLLER	15	2	800	B		20	1	SPACE ONLY	52
53	-----	--	--	800	C		20	1	SPACE ONLY	54

LOAD SUMMARY: Φ A 5930 VA; Φ B 7130 VA; Φ C 7910 VA
CONNECTED LOAD: 21.0 kVA
MAX CURRENT: 66 A
BUSING: 200A CU
MAIN: 150A
NOTE: * PROVIDE RED LOCK-ON DEVICE ON BREAKER

E1 Panel Schedules
Scale: None

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

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

LICENSED ARCHITECT NOEL ROGER DAVIDSON C-27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

PANEL SCHEDULES AND DETAILS

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No:

E10.14

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

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
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LICENSED ARCHITECT
NOEL ROGER DAVIDSON
C -27818
REN: 10-31-21
STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
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Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

LOW VOLTAGE DETAILS

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO

Sheet No:

E10.15

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, 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 §141.0(b)2P for alterations..			
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 1 of 5)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

A. GENERAL INFORMATION

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

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
1H	New electrical service equipment and meter	133	☐	☐
06 Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §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.			

[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.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

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

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 2 of 5)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
1H	133	☐	☒	☒	☐	E10.21	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 3 of 5)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

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 service do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector Pass	Fail
1H					
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1		☐	☐
HVAC systems and components	All HVAC in aggregate	Method 1		☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1		☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii

01	02	03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector Pass	Fail
1H	☒ Voltage drop less than 5% ☐ Permitted by CA Elec Code (Exception to 130.5(c))*	Attached	E10.13	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 4 of 5)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

H. VOLTAGE DROP

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

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

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector Pass	Fail
1H	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒		☐	☐

** 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

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 5 of 5)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature: [signature]
Company: Hardin-Davidson Engineering	Signature Date:
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: [signature]
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 1 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

A. GENERAL INFORMATION

01 Project Location (city)	Fresno		04 Total Conditioned Floor Area (ft²)	8,250	
02 Climate Zone	13		05 Total Unconditioned Floor Area (ft²)	0	
03 Occupancy Types Within Project (select all that apply):			06 # of Stories (Habitable Above Grade)	1	
☒ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☐ Other (Write in)	

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	8250	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	8250		0	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 2 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts) 01	02	03	04		05		Adjusted Lighting Power per §140.6(a) (Watts) 06	07		08	Compliance Results 09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	=	Total Allowed (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
Conditioned	5,362.5				=	5,362.5	≥	2,986.8	0	=	2986.8	COMPLIES
Unconditioned					=		≥			=		
											Controls Compliance (See Table H for Details)	COMPLIES
											Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	Fail
A	36w LED	No	No	36	CEC Default	73	No	2,628	☐	☐
AF	36w LED	No	No	36	CEC Default	4	No	144	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 3 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	34.8w LED	No	No	34.8	CEC Default	1	No	34.8	☐	☐
BL	17.5w LED	No	No	17.5	CEC Default	2	No	35	☐	☐
C	28.3w LED	No	No	28.3	CEC Default	2	No	56.6	☐	☐
H	12.3w LED Wall Sconce	No	No	12.3	CEC Default	2	No	24.6	☐	☐
J	63.8w LED Pendant	No	No	63.8	CEC Default	1	No	63.8	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,986.8		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes 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 §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. 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

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

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 4 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Sky lit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	Fail
Daylit Areas	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Non-daylit Areas	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

*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

13 Plan Sheet Showing Daylit Zones: E10.21

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

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

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category	PAF
Whole Building	Office Building	0.65	8,250	5,362.5	No	No
		TOTALS:	8,250	5,362.5	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 5 of 7)
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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 6 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	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.	☐	☐
○	●	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.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

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. 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

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	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)	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 7 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature: [signature]
Company: Hardin-Davidson Engineering	Signature Date: 2020-06-25
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: [signature]
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 1 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

A. GENERAL INFORMATION

01	Project Location (city)	Fresno	04 Total Illuminated Hardscape Area (ft²)	3314
02	Climate Zone	13		
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from §140.7	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03 % of Existing Luminaires Being Altered[1]	04 Sum Total of Luminaires Being Added or Altered	05 Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 2 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L 01		02		03		04		05		06		Compliance Results 07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
567.35	+	---	+	---	+	---	+	---	OR	---	=	567.35	≥	529.1	COMPLIES
														Cutoff Compliance (See Table G for Details)	N/A
														Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 3 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01 Name or Item Tag	02 Complete Luminaire Description		03 Watts per luminaire[1, 2]	04 How is Wattage determined	05 Total number luminaires[2]	06 Luminaire Status[3]	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	10 Field Inspector Pass	Fail
S	12w LED	☐ Linear	12	CEC Default	15	New	☐	180	NA: < 6200 lumens	☐	☐
T/TE	20w LED	☐ Linear	20	CEC Default	4	New	☐	80	NA: < 6200 lumens	☐	☐
U/UE	14.7w LED	☐ Linear	14.7	CEC Default	3	New	☐	44.1	NA: < 6200 lumens	☐	☐
V	25w LED	☐ Linear	25	CEC Default	9	New	☐	225	NA: < 6200 lumens	☐	☐
							Total Design Watts:	529.1			

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

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

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 4 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01 Area Description	02 Shut-Off §130.2(c)1	03 Auto-Schedule §130.2(c)2	04 Motion Sensor §130.2(c)3	05 Field Inspector Pass	Fail
Exterior	Astronomical Timer	Yes	NA: Wall <=24 ft	☐	☐

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

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Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.	01				
	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply): ☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)
This section does not apply to this project.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	9	10
		Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Exterior	Asphalt	3314	0.03	82.85	538	0.4	134.5	217.35
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	567.35

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 6 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 1	Report Page:	(Page 7 of 7)
Project Address:	W. Dan Ronquillo Dr.	Date Prepared:	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature: [signature]
Company: Hardin-Davidson Engineering	Signature Date: 2020-06-25
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: [signature]
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

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

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

LICENSED ARCHITECT NOEL ROGER DAVIDSON II C -27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project
ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:
Building Name:
Building No.:

TITLE 24 COMPLIANCE DOCUMENTS

Project No: T80310 **Date:** 6/26/2020

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

THE COUNTY OF FRESNO 1856

Sheet No:
E10.21

Drawn by: Plotted on: 6/25/2020 7:23:49 PM

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, 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 §141.0(b)2P for alterations..			
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 1 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

A. GENERAL INFORMATION

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

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01		02	03	04	05
Electrical Service Designation/Description		Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
2H		New electrical service equipment and meter	399	☐	☐
06	Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §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.			

[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.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

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

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2020-06-25 18:52:35

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 2 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
2H	399	☒	☒	☒	☐	E10.22	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 3 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

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 service do not need to be shown.

01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
2H					
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 1		☐	☐
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 1		☐	☐
Plug Loads and appliances less than 25kVA	All plug loads separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1		☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii

01	02	03	04	05	
				Field Inspector	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Pass	Fail

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 4 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

H. VOLTAGE DROP

2H	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Attached	E10.13	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*
[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

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

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
					Field Inspector	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Pass	Fail
2H	NA: No applicable space types on this service	Occupancy Sensor	☒		☐	☐

** 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

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Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 5 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

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Company: Hardin-Davidson Engineering	Signature Date:
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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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.
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Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature:
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 1 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

A. GENERAL INFORMATION

01 Project Location (city)	Fresno		04 Total Conditioned Floor Area (ft²)	13,100	
02 Climate Zone	13		05 Total Unconditioned Floor Area (ft²)	0	
03 Occupancy Types Within Project (select all that apply):			06 # of Stories (Habitable Above Grade)	1	
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☒ Other (Write in)	Commercial

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	13100	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	13100		0	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2020-06-25 18:52:35

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 2 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts) 01 Complete Building §140.6(c)1 (See Table I)	02 Area Category §140.6(c)2 (See Table I)	03 Area Category Additional §140.6(c)2G (+) (See Table J)	04 Tailored §140.6(c)3 (+) (See Table K)	=	05 Total Allowed (Watts)	≥	Adjusted Lighting Power per §140.6(a) (Watts) 06 Total Designed (Watts) (See Table F)	07 Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	08 Total Adjusted (Watts) *Includes Adjustments	Compliance Results 09 05 must be >= 08 §140.6
Conditioned	7,860				=	7,860	≥	5,139.6	0	=	5139.6	COMPLIES
Unconditioned					=		≥			=		
											Controls Compliance (See Table H for Details)	COMPLIES
											Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Pass	Fail
A	36w LED	No	No	36	CEC Default	21	No	756	☐	☐
AF	36w LED	No	No	36	CEC Default	3	No	108	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 3 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	34.8w LED	No	No	34.8	CEC Default	2	No	69.6	☐	☐
BL	17.5w LED	No	No	17.5	CEC Default	2	No	35	☐	☐
G	43w LED	No	No	43	CEC Default	97	No	4,171	☐	☐
							Total Designed Watts: CONDITIONED SPACES	5,139.6		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes 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 §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. 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

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

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 4 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Pass	Fail
Daylit Areas	Office Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Non-Daylit Areas	Office Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

*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*	13
	Plan Sheet Showing Daylit Zones:
	E10.22

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

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

Conditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Whole Building	Industrial/Manufacturing Facility Building	0.6	13,100	7,860	No	No
		TOTALS:	13,100	7,860	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2020-06-25 18:52:35

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 6 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	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.	☐	☐
○	●	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.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

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. 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

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	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)	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2020-06-25 18:52:35

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 7 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature:
Company: Hardin-Davidson Engineering	Signature Date: 2020-06-25
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature:
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 1 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

A. GENERAL INFORMATION

01	Project Location (city)	Fresno	04 Total Illuminated Hardscape Area (ft²)	9980
02	Climate Zone	13		
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from §140.7		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 2 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L | Compliance Results

01 General Hardscape Allowance §140.7(d)1 (See Table I)	+	02 Per Application §140.7(d)2 (See Table J)	+	03 Sales Frontage §140.7(d)2 (See Table K)	+	04 Ornamental §140.7(d)2 (See Table L)	+	05 Per Specific Area §140.7(d)2 (See Table M)	OR	06 Existing Power Allowance §141.0(b)2L (See Table N)	=	07 Total Allowed (Watts)	≥	08 Total Actual (Watts)	09 07 must be >= 08
820	+	45	+	---	+	---	+	675	OR	---	=	1,540	≥	1,121	COMPLIES
														Cutoff Compliance (See Table G for Details)	N/A
														Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2020-06-25 18:52:35

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 3 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
										Field Inspector	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Pass	Fail
G	43w LED	☐ Linear	43	CEC Default	16	New	☐	688	NA: < 6200 lumens	☐	☐
R2	194w LED Pole	☐ Linear	194	CEC Default	2	New	☐	388	NA: < 6200 lumens	☐	☐
WE	15w LED	☐ Linear	15	CEC Default	3	New	☐	45	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1121			

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

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

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 4 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
				Field Inspector	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Pass	Fail
Poles	Astronomical Timer	Yes	Yes	☐	☐
Perimeter	Astronomical Timer	Yes	NA: Wall <=24 ft	☐	☐

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

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Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 5 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.	01 ☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply): ☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)

This section does not apply to this project.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	9	10
		Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Access Road	Asphalt	9980	0.03	249.5	882	0.4	220.5	470
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	820

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 6 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B .

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Main Entry	Building Entrance/Exit	1	19	19	WE	15	1	15	15
							Total Design Watts for this Area:	15	
North Entrance	Building Entrance/Exit	1	19	19	WE	15	1	15	15
							Total Design Watts for this Area:	15	
South Entrance	Building Entrance/Exit	1	19	19	WE	15	1	15	15
							Total Design Watts for this Area:	15	
							Total Allowance (Watts) All Areas:		45

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B .
[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 7 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Canopies	NonSalesCanopy	2500	0.27	675	G	43	16	688	675
							Total Design Watts for this Area:	688	
							Total Allowance (Watts) All Areas:		675

[1] FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft² for these additional lighting allowances.
[2] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 8 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20190401 | Report Generated: 2020-06-25 18:52:35

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 2	**Report Page:**	**(Page 9 of 9)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Documentation Author Name: C. Scott Davidson	Documentation Author Signature:
Company: Hardin-Davidson Engineering	Signature Date: 2020-06-25
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature:
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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REGISTERED PROFESSIONAL ENGINEER C. SCOTT DAVIDSON E17850 ELECTRICAL STATE OF CALIFORNIA

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LICENSED ARCHITECT NOEL ROGER DAVIDSON II C -27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project
ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:
Building Name:
Building No.:

TITLE 24 COMPLIANCE DOCUMENTS

Project No: T80310 **Date:** 6/26/2020

Fresno County Department of Public Works and Planning Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO 1856

Sheet No:
E10.22

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, 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 §141.0(b)2P for alterations..			
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 1 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

A. GENERAL INFORMATION

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

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
3H	New electrical service equipment and meter	199	☐	☐
06 Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §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.			

[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.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

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

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 2 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
3H	199	☐	☒	☒	☐	E10.23	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 3 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

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 service do not need to be shown.

01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
3H					
Lighting including exit, egress and exterior	All lighting in aggregate	Method 1		☐	☐
HVAC systems and components	All HVAC in aggregate	Method 1		☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 1		☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Pii

01	02				03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector Pass	Fail
3H	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Attached		☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 4 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

H. VOLTAGE DROP

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

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

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
					Field Inspector	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Pass	Fail
3H	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	E10.23	☐	☐

** 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

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 5 of 5)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature: [signature]
Company: Hardin-Davidson Engineering	Signature Date:
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: [signature]
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 1 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

A. GENERAL INFORMATION

01 Project Location (city)	Fresno		04 Total Conditioned Floor Area (ft²)	10,150	
02 Climate Zone	13		05 Total Unconditioned Floor Area (ft²)	0	
03 Occupancy Types Within Project (select all that apply):			06 # of Stories (Habitable Above Grade)	1	
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☒ Other (Write in)	Commercial

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	10150	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	10150		0	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 2 of 7)**
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned	6,090				=	6,090	≥	3,590.4	0	=	3590.4	COMPLIES
Unconditioned					=		≥			=		
									Controls Compliance (See Table H for Details)			COMPLIES
									Rated Power Reduction Compliance (See Table Q for Details)			

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Pass	Fail
A	36w LED	No	No	36	CEC Default	57	No	2,052	☐	☐
AF	36w LED	No	No	36	CEC Default	2	No	72	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 3 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	34.8w LED	No	No	34.8	CEC Default	13	No	452.4	☐	☐
D	30w LED	No	No	30	CEC Default	2	No	60	☐	☐
F	31w LED	No	No	31	CEC Default	28	No	868	☐	☐
FH	43w LED	No	No	43	CEC Default	2	No	86	☐	☐
						Total Designed Watts: CONDITIONED SPACES		3,590.4		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes 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 §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. 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

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

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Pass	Fail
Daylit Areas	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Non-Daylit Areas	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

*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*	13
	Plan Sheet Showing Daylit Zones:
	E10.23

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

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

Conditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Whole Building	Industrial/Manufacturing Facility Building	0.6	10,150	6,090	No	No
		TOTALS:	10,150	6,090	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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Indoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 5 of 7)**
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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 6 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	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.	☐	☐
○	●	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.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

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. 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

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	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)	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 7 of 7)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature: [signature]
Company: Hardin-Davidson Engineering	Signature Date: 2020-06-25
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: [signature]
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 1 of 8)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

A. GENERAL INFORMATION

01 Project Location (city)	Fresno	04	Total Illuminated Hardscape Area (ft²)	4300
02 Climate Zone	13			
03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐ LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from §140.7	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 2 of 8)**
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L													Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
634.5	+	---	+	---	+	---	+	232.74	OR	---	=	867.24	≥	578.9	COMPLIES
														Cutoff Compliance (See Table G for Details)	N/A
														Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 3 of 8)**
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
										Field Inspector	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) [4]	Pass	Fail
G	43w LED	☐ Linear	43	CEC Default	7	New	☐	301	NA: < 6200 lumens	☐	☐
U/UE	14.7w LED	☐ Linear	14.7	CEC Default	7	New	☐	102.9	NA: < 6200 lumens	☐	☐
V	25w LED	☐ Linear	25	CEC Default	7	New	☐	175	NA: < 6200 lumens	☐	☐
							Total Design Watts:	578.9			

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

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

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 4 of 8)**
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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
				Field Inspector	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Pass	Fail
Perimeter	Astronomical Timer	Yes	NA: Wall <=24 ft	☐	☐

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

STATE OF CALIFORNIA
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I. LIGHTING POWER ALLOWANCE (per §140.7)

	01				
This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)

This section does not apply to this project.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	9	10
		Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Exterior	Asphalt	4300	0.03	107.5	708	0.4	177	284.5
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	634.5

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 6 of 8)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Canopies	NonSalesCanopy	862	0.27	232.74	G	43	7	301	232.74
							Total Design Watts for this Area:	301	
							Total Allowance (Watts) All Areas:		232.74

[1] FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft² for these additional lighting allowances.
[2] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 7 of 8)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Fresno Co Animal Control & Adoption Center Building 3	**Report Page:**	**(Page 8 of 8)**
Project Address:	W. Dan Ronquillo Dr.	**Date Prepared:**	6/25/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson	Documentation Author Signature: [signature]
Company: Hardin-Davidson Engineering	Signature Date: 2020-06-25
Address: 356 Pollasky Ave., Suite 200	CEA/ HERS Certification Identification (if applicable): E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: C. Scott Davidson	Responsible Designer Signature: [signature]
Company: Hardin-Davidson Engineering	Date Signed: 2020-06-25
Address: 356 Pollasky Ave. Suite 200	License: E17850
City/State/Zip: Clovis CA 93612	Phone: 559-323-4995

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

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

LICENSED ARCHITECT NOEL ROGER DAVIDSON II C -27818 REN: 10-31-21 STATE OF CALIFORNIA

ARCHITECT:
Noel Roger Davidson, A.I.A, Architect
California Licensed Architect No. C-27818
Ren. 10-31-21
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, Eighth Floor
Fresno, California 93721

Office: (559) 600-4477
E-mail: ndavidson@fresnocountyca.gov

Project

ANIMAL CONTROL CENTER

2220 TULARE STREET
FRESNO, CA

Sheet Content:

Building Name:
Building No.:

TITLE 24 COMPLIANCE DOCUMENTS

Project No: T80310 **Date:** 6/26/2020

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

THE COUNTY OF FRESNO 1856

Sheet No:

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